TEI Lite: Encoding for Interchange: an introduction to the TEI

Final revised edition for TEI P5

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Prefatory note

TEI Lite was the name adopted for what the TEI editors originally conceived of as a simple demonstration of how the TEI (Text Encoding Initiative) encoding scheme might be adopted to meet 90% of the needs of 90% of the TEI user community. In retrospect, it was predictable that many people should imagine TEI Lite to be all there is to TEI, or find TEI Lite to be far too heavy for their needs.

The original TEI Lite (1996) was based largely on observations of existing and previous practice in the encoding of texts, particularly as manifest in the collections of the Oxford Text Archive and other collections of the period. It is therefore unsurprising that it seems to have become, if not a de facto standard, at least a common point of departure for electronic text centres and encoding projects world wide. Maybe the fact that we actually produced this shortish, readable, manual for it also helped.

Early adopters of TEI Lite included a number of Electronic Text Centers and digital library initiatives. It was also adopted as the basis for some early TEI-conformant authoring systems, and as the basis for introductory tutorials, many of them in languages other than English (see further the list of legacy versions at http://www.tei-c.org/Vault/P4/Lite/).

In 2002, following the publication of TEI P4, the XML version of the TEI Guidelines, which uses the generation of TEI Lite as an example of the TEI modification mechanism, the opportunity was taken to produce a lightly revised XML-conformant version. In 2006, a more substantially revised version based on TEI P5 was produced; this reflected the many changes between TEI P4 and TEI P5, but was not otherwise significantly different. In 2012, the TEI Technical Council, decided that a final revision should be undertaken to ensure that the documentation remained consistent with the latest (2.1) release of TEI P5. This version uses a recently added mechanism in the TEI customization architecture, which permits a customization to define only the TEI elements to be included in a schema, rather than the elements to be excluded from it. As such it is probably more resilient to change than earlier versions.

Lou Burnard, August 2012
This document provides an introduction to the recommendations of the Text Encoding Initiative (TEI), by describing a specific subset of the full TEI encoding scheme. The scheme documented here can be used to encode a wide variety of commonly encountered textual features, in such a way as to maximize the usability of electronic transcriptions and to facilitate their interchange among scholars using different computer systems. It is fully compatible with the full TEI scheme, as defined by TEI document P5, *Guidelines for Electronic Text Encoding and Interchange*, as of February 2006, and available from the TEI Consortium website at [http://www.tei-c.org/](http://www.tei-c.org/).

1 Introduction

The Text Encoding Initiative (TEI) Guidelines are addressed to anyone who wants to interchange information stored in an electronic form. They emphasize the interchange of textual information, but other forms of information such as images and sound are also addressed. The Guidelines are equally applicable in the creation of new resources and in the interchange of existing ones.

The Guidelines provide a means of making explicit certain features of a text in such a way as to aid the processing of that text by computer software running on different machines. This process of making explicit we call *markup* or *encoding*. Any textual representation on a computer uses some form of markup; the TEI came into being partly because of the enormous variety of mutually incomprehensible encoding schemes currently besetting scholarship, and partly because of the expanding range of scholarly uses now being identified for texts in electronic form.

The TEI Guidelines describe an encoding scheme which can be expressed using a number of different formal languages. The first editions of the Guidelines used the *Standard Generalized Markup Language* (SGML); since 2002, this has been replaced by the use of the Extensible Markup Language (XML). These markup languages have in common the definition of text in terms of *elements* and *attributes*, and rules governing their appearance within a text. The TEI’s use of XML is ambitious in its complexity and generality, but it is fundamentally no different from that of any other XML markup scheme, and so any general-purpose XML-aware software is able to process TEI-conformant texts.

Since 2001, the TEI has been a community initiative supported by an international membership consortium. It was originally an international research project sponsored by the Association for Computers and the Humanities, the Association for Computational Linguistics, and the Association for Literary and Linguistic Computing, with substantial funding over its first five years from the U.S. National Endowment for the Humanities, Directorate General XIII of the Commission of the European Communities, the Andrew W. Mellon Foundation, the Social Science and Humanities Research Council of Canada and others. The Guidelines were first published in May 1994, after six years of development involving many hundreds of scholars from different academic disciplines worldwide. During the years that followed, the Guidelines became increasingly influential in the development of the digital library, in the language industries, and even in the development of the World Wide Web itself. The TEI Consortium was set up in January 2001, and a year later produced an edition of the Guidelines entirely revised for XML compatibility. In 2004, it set about a major revision of the Guidelines to take full advantage of new schema languages, the first release of which appeared in 2005. This revision of the TEI Lite document conforms to version 2.1 of this most recent edition of the Guidelines, TEI P5, released in June 2012.

At the outset of its work, the overall goals of the TEI were defined by the closing statement of a planning conference held at Vassar College, N.Y., in November, 1987; these Poughkeepsie Principles were further elaborated in a series of design documents. The Guidelines, say these design documents, should:

- suffice to represent the textual features needed for research;
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- be simple, clear, and concrete;
- be easy for researchers to use without special-purpose software;
- allow the rigorous definition and efficient processing of texts;
- provide for user-defined extensions;
- conform to existing and emergent standards.

The world of scholarship is large and diverse. For the Guidelines to have wide acceptability, it was important to ensure that:

1. the common core of textual features be easily shared;
2. additional specialist features be easy to add to (or remove from) a text;
3. multiple parallel encodings of the same feature should be possible;
4. the richness of markup should be user-defined, with a very small minimal requirement;
5. adequate documentation of the text and its encoding should be provided.

The present document describes a manageable selection from the extensive set of elements and recommendations resulting from those design goals, which is called *TEI Lite*. In selecting from the several hundred elements defined by the full TEI scheme, we have tried to identify a useful starter set, comprising the elements which almost every user should know about. Experience working with TEI Lite will be invaluable in understanding the full TEI scheme and in knowing how to integrate specialized parts of it into the general TEI framework. Our goals in defining this subset may be summarized as follows:

- it should be able to handle adequately a reasonably wide variety of texts, at the level of detail found in existing practice (as demonstrated in, for example, the holdings of the Oxford Text Archive);
- it should be useful for the production of new documents (such as this one) as well as the encoding of existing texts;
- it should be usable with a wide range of existing XML software;
- it should be a pure subset of the full TEI scheme and defined using the customizaton methods described in the TEI Guidelines;
- it should be as small and simple as is consistent with the other goals.

The reader may judge our success in meeting these goals for him or herself. Although we have tried to make this document self-contained, as suits a tutorial text, the reader should be aware that it does not cover every detail of the TEI encoding scheme. All of the elements described here are fully documented in the TEI Guidelines themselves, which should be consulted for authoritative reference information on these, and on the many others which are not described here. Some basic knowledge of XML is assumed.
2 A Short Example

We begin with a short example, intended to show what happens when a passage of prose is typed into a computer by someone with little sense of the purpose of mark-up, or the potential of electronic texts. In an ideal world, such output might be generated by a very accurate optical scanner. It attempts to be faithful to the appearance of the printed text, by retaining the original line breaks, by introducing blanks to represent the layout of the original headings and page breaks, and so forth. Where characters not available on the keyboard are needed (such as the accented letter a in faàl or the long dash), it attempts to mimic their appearance.

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READER, I married him. A quiet wedding we had: he and I, the parson and clerk, were alone present. When we got back from church, I went into the kitchen of the manor-house, where Mary was cooking the dinner, and John cleaning the knives, and I said --

'Mary, I have been married to Mr Rochester this morning.' The housekeeper and her husband were of that decent, phlegmatic order of people, to whom one may at any time safely communicate a remarkable piece of news without incurring the danger of having one's ears pierced by some shrill ejaculation and subsequently stunned by a torrent of wordy wonderment. Mary did look up, and she did stare at me; the ladle with which she was basting a pair of chickens roasting at the fire, did for some three minutes hang suspended in air, and for the same space of time John's knives also had rest from the polishing process; but Mary, bending again over the roast, said only --

'Have you, miss? Well, for sure!'

A short time after she pursued, 'I seed you go out with the master, but I didn't know you were gone to church to be wed'; and she basted away. John, when I turned to him, was grinning from ear to ear.

'I telled Mary how it would be,' he said: 'I knew what Mr Edward' (John was an old servant, and had known his master when he was the cadet of the house, therefore he often gave him his Christian name) -- 'I knew what Mr Edward would do; and I was certain he would not wait long either: and he's done right, for aught I know. I wish you joy, miss!' and he politely pulled his forelock.

'Thank you, John. Mr Rochester told me to give you and Mary this.'

I put into his hand a five-pound note. Without waiting to hear more, I left the kitchen. In passing the door of that sanctum some time after, I caught the words --

'She'll happen do better for him nor ony o' t' grand ladies.' And again, 'If she ben't one o' th' handsomest, she's noan faa\l, and varry good-natured; and i' his een she's fair beautiful, onybody may see that.'

I wrote to Moor House and to Cambridge immediately, to say what I had done: fully explaining also why I had thus acted. Diana and

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Mary approved the step unreservedly. Diana announced that she would just give me time to get over the honeymoon, and then she would come and see me.

'She had better not wait till then, Jane,' said Mr Rochester, when I read her letter to him; 'if she does, she will be too late, for our honey-moon will shine our life long: its beams will only fade over your grave or mine.'
How St John received the news I don't know: he never answered the letter in which I communicated it: yet six months after he wrote to me, without, however, mentioning Mr Rochester's name or alluding to my marriage. His letter was then calm, and though very serious, kind. He has maintained a regular, though not very frequent correspondence ever since: he hopes I am happy, and trusts I am not of those who live without God in the world, and only mind earthly things.

This transcription suffers from a number of shortcomings:

- the page numbers and running titles are intermingled with the text in a way which makes it difficult for software to disentangle them;
- no distinction is made between single quotation marks and apostrophe, so it is difficult to know exactly which passages are in direct speech;
- the preservation of the copy text's hyphenation means that simple-minded search programs will not find the broken words;
- the accented letter in faàl and the long dash have been rendered by ad hoc keying conventions which follow no standard pattern and will be processed correctly only if the transcriber remembers to mention them in the documentation;
- paragraph divisions are marked only by the use of white space, and hard carriage returns have been introduced at the end of each line. Consequently, if the size of type used to print the text changes, reformatting will be problematic.

We now present the same passage, as it might be encoded using the TEI Guidelines. As we shall see, there are many ways in which this encoding could be extended, but as a minimum, the TEI approach allows us to represent the following distinctions:

- Paragraph and chapter divisions are now marked explicitly.
- Apostrophes are distinguished from quotation marks; direct speech is explicitly marked.
- The accented letter and the long dash are correctly represented.
- Page divisions have been marked with an empty <pb> element alone.
- The lineation of the original has not been retained and words broken by typographic accident at the end of a line have been re-assembled without comment.
- For convenience of proof reading, a new line has been introduced at the start of each paragraph, but the indentation is removed.
husband were of that decent, phlegmatic order of people, to whom one may at any
time safely
communicate a remarkable piece of news without incurring the danger of having
one's ears
pierced by some shrill ejaculation and subsequently stunned by a torrent of
wordy
wonderment. Mary did look up, and she did stare at me; the ladle with which she
was basting
a pair of chickens roasting at the fire, did for some three minutes hang
suspended in air,
and for the same space of time John's knives also had rest from the polishing
process; but
Mary, bending again over the roast, said only — </p>
</p>Have you, miss? Well, for sure!</p>
</p>A short time after she pursued, I seed you go out with the master, but I
didn't know
you were gone to church to be wed</p>; and she basted away. John, when I
turned to him, was
grinning from ear to ear. I told Mary how it would be, he said: I knew what Mr
Edward</p> (John was an old servant, and had known his master when he was the
cadet of the
house, therefore he often gave him his Christian name) — I knew what Mr
Edward would do;
and I was certain he would not wait long either: and he's done right, for
ought I know. I
wish you joy, miss! and he politely pulled his forelock.</p>
</p>Thank you, John. Mr Rochester told me to give you and Mary this.</p>
</p>I put into his hand a five-pound note. Without waiting to hear more, I left the
kitchen.
In passing the door of that sanctum some time after, I caught the words — </p>
</p>She'll happen do better for him nor ony o' t' grand ladies.</p> And again,
If she
ben't one o' th' handsomest, she's noan faàl, and varry good-natured; and i'
his een she's
fair beautiful, onybody may see that.</p>
</p>I wrote to Moor House and to Cambridge immediately, to say what I had done:
fully
explaining also why I had thus acted. Diana and Mary approved the
step
unreservedly. Diana announced that she would just give me time to get over the
honeymoon,
and then she would come and see me.</p>
</p>She had better not wait till then, Jane,</p> said Mr Rochester, when I read
her letter
to him; if she does, she will be too late, for our honeymoon will shine our
life long:
it's beams will only fade over your grave or mine.</p>
</p>How St John received the news I don't know: he never answered the letter in
which I
communicated it: yet six months after he wrote to me, without, however,
mentioning Mr
Rochester's name or alluding to my marriage. His letter was then calm, and
though very serious, kind. He has maintained a regular, though not very frequent correspondence ever since: he hopes I am happy, and trusts I am not of those who live without God in the world, and only mind earthly things.

This particular encoding represents a set of choices or priorities. As a trivial example, note that in the second example, end-of-line hyphenation has been silently removed. Conceivably Brontë (or her printer) intended the word honeymoon to appear as honey-moon on its second appearance, though this seems unlikely: our decision to focus on Brontë’s text, rather than on the printing of it in this particular edition, makes it impossible to be certain. This is an instance of the fundamental selectivity of any encoding. An encoding makes explicit only those textual features of importance to the encoder. It is not difficult to think of ways in which the encoding of even this short passage might readily be extended. For example:

- a regularized form of the passages in dialect could be provided;
- footnotes glossing or commenting on any passage could be added;
- pointers linking parts of this text to others could be added;
- proper names of various kinds could be distinguished from the surrounding text;
- detailed bibliographic information about the text’s provenance and context could be prefixed to it;
- a linguistic analysis of the passage into sentences, clauses, words, etc., could be provided, each unit being associated with appropriate category codes;
- the text could be segmented into narrative or discourse units;
- systematic analysis or interpretation of the text could be included in the encoding, with potentially complex alignment or linkage between the text and the analysis, or between the text and one or more translations of it;
- passages in the text could be linked to images or sound held on other media.

TEI-recommended ways of carrying out most of these are described in the remainder of this document. The TEI scheme as a whole also provides for an enormous range of other possibilities, of which we cite only a few:

- detailed analysis of the components of names;
- detailed meta-information providing thesaurus-style information about the text’s origins or topics;
- information about the printing history or manuscript variations exhibited by a particular series of versions of the text.

For recommendations on these and many other possibilities, the full Guidelines should be consulted.
3 The Structure of a TEI Text
All TEI-conformant texts contain (a) a TEI header (marked up as a `<teiHeader>` element) and (b) the transcription of the text proper (marked up as a `<text>` element). These two elements are combined together to form a single `<TEI>` element, which must be declared within the TEI namespace\(^1\).

The TEI header provides information analogous to that provided by the title page of a printed text. It has up to four parts: a bibliographic description of the machine-readable text, a description of the way it has been encoded, a non-bibliographic description of the text (a text profile), and a revision history. The header is described in more detail in section 19. The Electronic Title Page.

A TEI text may be unitary (a single work) or composite (a collection of single works, such as an anthology). In either case, the text may have an optional front or back. In between is the body of the text, which, in the case of a composite text, may consist of groups, each containing more groups or texts.

A unitary text will be encoded using an overall structure like this:

```xml
<TEI xmlns="http://www.tei-c.org/ns/1.0">
  <teiHeader>
  <!-- [ TEI Header information ] -->
  </teiHeader>
  <text>
  <front>
  <!-- [ front matter ... ] -->
  </front>
  <body>
  <!-- [ body of text ... ] -->
  </body>
  <back>
  <!-- [ back matter ... ] -->
  </back>
  </text>
</TEI>
```

A composite text also has an optional front and back. In between occur one or more groups of texts, each with its own optional front and back matter. A composite text will thus be encoded using an overall structure like this:

```xml
<TEI xmlns="http://www.tei-c.org/ns/1.0">
  <teiHeader>
  <!--[ header information for the composite ]-->
  </teiHeader>
  <text>
  <front>
  <!--[ front matter for the composite ]-->
  </front>
  <group>
  <text>
  <front>
  <!--[ front matter of first text ]-->
  </front>
  <body>
  <!--[ body of first text ]-->
  </body>
  </text>
  </group>
  <!-- [ other groups here ] -->
  <text>
  <front>
  <!--[ front matter of second text ]-->
  </front>
  <body>
  <!--[ body of second text ]-->
  </body>
  </text>
  </group>
</TEI>
```

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\(^1\)A namespace is an XML concept. Its function is to identify the vocabulary from which a group of element names are drawn, using a standard identifier resembling a web address. The namespace for all TEI elements is http://www.tei-c.org/ns/1.0
It is also possible to define a composite of complete TEI texts, each with its own header. Such a collection is known as a TEI corpus, and may itself have a header:

```xml
<teiCorpus xmlns="http://www.tei-c.org/ns/1.0">
  <teiHeader>
    <!--[header information for the corpus]-->
  </teiHeader>
  <TEI>
    <!--[header information for first text]-->
    <teiHeader>
      <!--[header information for first text]-->
      <teiHeader>
        <!--[first text in corpus]-->
        <text>
          <!--[first text in corpus]-->
        </text>
        </TEI>
      </teiHeader>
    </text>
    </TEI>
    <teiCorpus>
      <!--[header information for second text]-->
      <teiHeader>
        <!--[header information for second text]-->
        <teiHeader>
          <!--[second text in corpus]-->
          <text>
            <!--[second text in corpus]-->
          </text>
          </TEI>
        </teiHeader>
      </text>
      </TEI>
    </teiCorpus>
  </TEI>
</teiCorpus>
```

It is also possible to create a composite of corpora – that is, one `<teiCorpus>` element may contain many nested `<teiCorpus>` elements rather than many nested `<TEI>` elements, to any depth considered necessary.

In the remainder of this document, we discuss chiefly simple text structures. The discussion in each case consists of a short list of relevant TEI elements with a brief definition of each, followed by definitions for any attributes specific to that element, and a reference to any classes of which the element is a member. These references are linked to full specifications for each object, as given in the TEI Guidelines. In most cases, short examples are also given.

For example, here are the elements discussed so far:
(TEI document) contains a single TEI-conformant document, combining a single TEI header with one or more members of the model.resource class. Multiple <TEI> elements may be combined within a <TEI> (or teiCorpus) element.

(TEI header) supplies descriptive and declarative metadata associated with a digital resource or set of resources.

(text) contains a single text of any kind, whether unitary or composite, for example a poem or drama, a collection of essays, a novel, a dictionary, or a corpus sample.

(TEI corpus) contains the whole of a TEI encoded corpus, comprising a single corpus header and one or more <TEI> elements, each containing a single text header and a text.

4 Encoding the Body

As indicated above, a simple TEI document at the textual level consists of the following elements:

(front matter) contains any prefatory matter (headers, abstracts, title page, prefaces, dedications, etc.) found at the start of a document, before the main body.

(group) contains the body of a composite text, grouping together a sequence of distinct texts (or groups of such texts) which are regarded as a unit for some purpose, for example the collected works of an author, a sequence of prose essays, etc.

(text body) contains the whole body of a single unitary text, excluding any front or back matter.

(back matter) contains any appendixes, etc. following the main part of a text.

Elements specific to front and back matter are described below in section 18. Front and Back Matter. In this section we discuss the elements making up the body of a text.

4.1 Text Division Elements

The body of a prose text may be just a series of paragraphs, or these paragraphs may be grouped together into chapters, sections, subsections, etc. Each paragraph is tagged using the <p> tag. The <div> element is used to represent any such grouping of paragraphs.

(paragraph) marks paragraphs in prose.

(text division) contains a subdivision of the front, body, or back of a text.

The type attribute on the <div> element may be used to supply a conventional name for this category of text division, or otherwise distinguish them. Typical values might be book, chapter, section, part, poem, song, etc. For a given project, it will usually be advisable to define and adhere to a specific list of such values.

A <div> element may itself contain further, nested, <div>s, thus mimicking the traditional structure of a book, which can be decomposed hierarchically into units such as parts, containing chapters, containing sections, and so on. TEI texts in general conform to this simple hierarchic model.

The xml:id attribute may be used to supply a unique identifier for the division, which may be used for cross references or other links to it, such as a commentary, as further discussed in section 8. Cross References and Links. It is often useful to provide an xml:id attribute for every major structural unit in a text, and to derive its values in some systematic way, for example by appending a section number to a short code for the title of the work in question, as in the examples below. It is particularly useful to supply such identifiers if the resource concerned is to be made available over the web, since they make it much easier for other web-based applications to link directly to the corresponding parts of your text.

The n attribute may be used to supply (additionally or alternatively) a short mnemonic name or number for a division, or any other element. If a conventional form of reference or
abbreviation for the parts of a work already exists (such as the book/chapter/verse pattern of Biblical citations), the \textit{n} attribute is the place to record it; unlike the identifier supplied by \textit{xml:id}, it does not need to be unique.

The \textit{xml:lang} attribute may be used to specify the language of the division. Languages are identified by an internationally defined code, as further discussed in section \ref{sec:foreignwords} below.

The \textit{rend} attribute may be used to supply information about the rendition (appearance) of a division, or any other element, as further discussed in section \ref{sec:markinghighlightedphrases} below. As with the \textit{type} attribute, a project will often find it useful to predefine the possible values for this attribute, but TEI Lite does not constrain it in anyway.

These four attributes, \textit{xml:id}, \textit{n}, \textit{xml:lang}, and \textit{rend} are so widely useful that they are allowed on any element in any TEI schema: they are \textit{global attributes}. Other global attributes defined in the TEI Lite scheme are discussed in section \ref{sec:speclinking}.

The value of every \textit{xml:id} attribute should be unique within a document. One simple way of ensuring that this is so is to make it reflect the hierarchic structure of the document. For example, Smith’s \textit{Wealth of Nations} as first published consists of five books, each of which is divided into chapters, while some chapters are further subdivided into parts. We might define \textit{xml:id} values for this structure as follows:

\begin{verbatim}
<body>
  <div xml:id="WN1" n="I" type="book">
    <div xml:id="WN101" n="I.1" type="chapter">
      <!-- ... -->
    </div>
  </div>
  <div xml:id="WN102" n="I.2" type="chapter">
    <!-- ... -->
  </div>
  <div xml:id="WN110" n="I.10" type="chapter">
    <div xml:id="WN1101" n="I.10.1" type="part">
      <!-- ... -->
    </div>
    <div xml:id="WN1102" n="I.10.2" type="part">
      <!-- ... -->
    </div>
  </div>
  <div xml:id="WN2" n="II" type="book">
    <!-- ... -->
  </div>
</body>
\end{verbatim}

A different numbering scheme may be used for \textit{xml:id} and \textit{n} attributes: this is often useful where a canonical reference scheme is used which does not tally with the structure of the work. For example, in a novel divided into books each containing chapters, where the chapters are numbered sequentially through the whole work, rather than within each book, one might use a scheme such as the following:

\begin{verbatim}
<body>
  <div xml:id="TS01" n="1" type="volume">
    <div xml:id="TS011" n="1" type="chapter">
      <!-- ... -->
    </div>
  </div>
  <div xml:id="TS011" n="1" type="chapter">
    <!-- ... -->
  </div>
  <div xml:id="TS02" n="2" type="volume">
    <div xml:id="TS021" n="1" type="chapter">
      <!-- ... -->
    </div>
    <div xml:id="TS022" n="2" type="chapter">
      <!-- ... -->
    </div>
  </div>
  <div xml:id="TS03" n="3" type="volume">
    <div xml:id="TS031" n="1" type="chapter">
      <!-- ... -->
    </div>
    <div xml:id="TS032" n="2" type="chapter">
      <!-- ... -->
    </div>
    <div xml:id="TS033" n="3" type="chapter">
      <!-- ... -->
    </div>
  </div>
  <div xml:id="TS04" n="4" type="volume">
    <div xml:id="TS041" n="1" type="chapter">
      <!-- ... -->
    </div>
    <div xml:id="TS042" n="2" type="chapter">
      <!-- ... -->
    </div>
    <div xml:id="TS043" n="3" type="chapter">
      <!-- ... -->
    </div>
    <div xml:id="TS044" n="4" type="chapter">
      <!-- ... -->
    </div>
  </div>
  <div xml:id="TS05" n="5" type="volume">
    <div xml:id="TS051" n="1" type="chapter">
      <!-- ... -->
    </div>
    <div xml:id="TS052" n="2" type="chapter">
      <!-- ... -->
    </div>
    <div xml:id="TS053" n="3" type="chapter">
      <!-- ... -->
    </div>
    <div xml:id="TS054" n="4" type="chapter">
      <!-- ... -->
    </div>
    <div xml:id="TS055" n="5" type="chapter">
      <!-- ... -->
    </div>
  </div>
</body>
\end{verbatim}
4.2 Headings and Closings

Here the work has two volumes, each containing two chapters. The chapters are numbered conventionally 1 to 4, but the xml:id values specified allow them to be regarded additionally as if they were numbered 1.1, 1.2, 2.1, 2.2.

4.2 Headings and Closings

Every <div> may have a title or heading at its start, and (less commonly) a trailer such as End of Chapter 1 at its end. The following elements may be used to transcribe them:

<head> (heading) contains any type of heading, for example the title of a section, or the heading of a list, glossary, manuscript description, etc.

<trailer> contains a closing title or footer appearing at the end of a division of a text. Some other elements which may be necessary at the beginning or ending of text divisions are discussed below in section 18.1.2. Prefatory Matter.

Whether or not headings and trailers are included in a transcription is a matter for the individual transcriber to decide. Where a heading is completely regular (for example Chapter 1) or may be automatically constructed from attribute values (e.g. <div type="chapter" n="1" >), it may be omitted; where it contains otherwise unrecoverable text it should always be included. For example, the start of Hardy’s Under the Greenwood Tree might be encoded as follows:

4.3 Prose, Verse and Drama

As in the Bronte example above, the paragraphs making up a textual division are tagged with the <p> tag. In poetic or dramatic texts different tags are needed, to represent verse lines and stanzas in the first case, or individual speeches and stage directions in the second. :

<l> (verse line) contains a single, possibly incomplete, line of verse.

<lg> (line group) contains one or more verse lines functioning as a formal unit, e.g. a stanza, refrain, verse paragraph, etc.

<sp> (speech) contains an individual speech in a performance text, or a passage presented as such in a prose or verse text.

<speaker> contains a specialized form of heading or label, giving the name of one or more speakers in a dramatic text or fragment.
4 ENCODING THE BODY

<stage> (stage direction) contains any kind of stage direction within a dramatic text or fragment.

Here, for example, is the start of a poetic text in which verse lines and stanzas are tagged:

<lg n="I">
<l>I Sing the progresse of a
dearthlesse soule,</l>
<l>Whom Fate, with God made, but doth not controule,</l>
<l>Plac’d in
most shapes; all times before the law</l>
<l>Yoak’d us, and when, and since, in this I
sing.</l>
<l>And the great world to his aged evening;</l>
<l>From infant morne, through manly
noone I draw.</l>
<l>What the gold Chaldee, of silver Persian saw,</l>
<l>Greeke brass, or
Roman iron, is in this one;</l>
<l>A worke t’out weare Seths pillars, bricke and
stone,</l>
<l>(holy writs excepted) made to yeeld to none,</l>
</lg>

Note that the <lg> element marks verse lines, not typographic lines: the original lineation of the first few lines above has not therefore been made explicit by this encoding, and may be lost. The <lb> element described in section 5. Page and Line Numbers might additionally be used to mark typographic lines if so desired.

Here is the end of a famous dramatic text, in which speeches and stage directions are marked:

<sp>
 <speaker>Vladimir</speaker>
 <p>Pull on your trousers.</p>
</sp>
<sp>
 <speaker>Estragon</speaker>
 <p>You want me to pull off my trousers?</p>
</sp>
<sp>
 <speaker>Vladimir</speaker>
 <p>Pull <emph>on</emph> your trousers.</p>
</sp>
<sp>
 <speaker>Vladimir</speaker>
 <p>(realizing his trousers are down)</p>
 <true></true>
</sp>
<stage>He pulls up his trousers</stage>
<sp>
 <speaker>Vladimir</speaker>
 <p>Well? Shall we go?</p>
</sp>
<sp>
 <speaker>Estragon</speaker>
 <p>Yes, let’s go.</p>
</sp>
<stage>They do not move.</stage>

Note that the <stage> (stage direction) element can appear either within a speech or between speeches. The <sp> (“speech”) element contains, following an optional <speaker> element
indicating who is speaking, either paragraphs (if the speech is in prose) or verse lines or stanzas as in the next example. In this case, it is quite common to find that verse lines are split between speakers. The easiest way of encoding this is to use the part attribute to indicate that the lines so fragmented are incomplete:

```xml
<div type="Act" n="I">
  <head>ACT I</head>
  <div type="Scene" n="1">
    <head>SCENE I</head>
    <stage rend="italic">Enter Barnardo and Francisco, two Sentinels, at several doors</stage>
    <sp>
      <speaker>Barn</speaker>
      <l part="Y">Who's there?</l>
    </sp>
    <sp>
      <speaker>Fran</speaker>
      <l>Nay, answer me. Stand and unfold yourself.</l>
    </sp>
    <sp>
      <speaker>Barn</speaker>
      <l>Long live the King!</l>
    </sp>
    <sp>
      <speaker>Fran</speaker>
      <l>Barnardo?</l>
    </sp>
    <sp>
      <speaker>Barn</speaker>
      <l>He.</l>
    </sp>
    <sp>
      <speaker>Fran</speaker>
      <l>You come most carefully upon your hour.</l>
    </sp>
  </div>
</div>
```

The same mechanism may be applied to stanzas which are divided between two speakers:

```xml
<div>
  <sp>
    <speaker>First voice</speaker>
    <lg type="stanza" part="I">
      <l>But why drives on that ship so fast</l>
      <l>Withouten wave or wind?</l>
    </lg>
  </sp>
  <sp>
    <speaker>Second Voice</speaker>
    <lg part="F">
      <l>The air is cut away before.</l>
      <l>And closes from behind.</l>
    </lg>
  </sp>
</div>
```
The `<sp>` element can also be used for dialogue presented in a prose work as if it were drama, as in the next example, which also demonstrates the use of the `who` attribute to bear a code identifying the speaker of the piece of dialogue concerned:

```
<div>
  <sp who="#OPI">
    <speaker>The reverend Doctor Opimian</speaker>
    <p>I do not think I have named a single unpresentable fish.</p>
  </sp>

  <sp who="#GRM">
    <speaker>Mr Gryll</speaker>
    <p>Bream, Doctor: there is not much to be said for bream.</p>
  </sp>

  <sp who="#OPI">
    <speaker>The Reverend Doctor Opimian</speaker>
    <p>On the contrary, sir, I think there is much to be said for him. In the first place....</p>
    <p>Fish, Miss Gryll -- I could discourse to you on fish by the hour: but for the present I will forbear.</p>
  </sp>
</div>
```

Here the `who` attribute values (#OPI etc.) are links, pointing to a list of the characters in the novel, each of which has an identifier:

```
<list>
  <head>Characters in the novel</head>
  <item xml:id="OPI">
    <name>Dr Opimian</name> : named for the famous Roman fine wine
  </item>
  <item xml:id="GRM">
    <name>Mr Gryll</name> : named for the mythical Gryllus, one of Ulysses' sailors transformed by Circe into a pig, who argues that he was happier in that state than as a man
  </item>
</list>
```

5 Page and Line Numbers

Page and line breaks etc. may be marked with the following elements.

- `<pb>` (page beginning) marks the beginning of a new page in a paginated document.
- `<lb>` (line beginning) marks the beginning of a new (typographic) line in some edition or version of a text.
- `<milestone>` (milestone) marks a boundary point separating any kind of section of a text, typically but not necessarily indicating a point at which some part of a standard reference system changes, where the change is not represented by a structural element.

These elements mark a single point in the text, not a span of text. The global `n` attribute should be used to supply the number of the page or line beginning at the tag.

When working from a paginated original, it is often useful to record its pagination, if only to simplify later proof-reading. It is also useful for synchronizing an encoded text with a set of page images. Recording the line breaks may be useful for similar reasons.

If features such as pagination or lineation are marked for more than one edition, specify the edition in question using the `ed` attribute, and supply as many tags are necessary. For example, in the following passage we indicate where the page breaks occur in two different editions (ED1 and ED2)
I wrote to Moor House and to Cambridge immediately, to say what I had done: fully explaining also why I had thus acted. Diana and Mary approved the step unreservedly. Diana announced that she would just give me time to get over the honeymoon, and then she would come and see me.

A special attribute break may be used to indicate whether or not this empty element is considered as a word-breaking, irrespective of any adjacent whitespace. For example, in the following encoded sample:

The <pb> and <lb> elements are special cases of the general class of milestone elements which mark reference points within a text. The generic <milestone> element can mark any kind of reference point: for example, a column break, the start of a new kind of section not otherwise tagged, or in general any significant change in the text not marked by an XML element. The names used for types of unit and for editions referred to by the ed and unit attributes may be chosen freely, but should be documented in the header <refsDecl> element (see Reference and Classification Declarations). The <milestone> element may be used to replace the others, or the others may be used as a set; they should not be mixed arbitrarily.

6 Marking Highlighted Phrases

6.1 Changes of Typeface, etc.

Highlighted words or phrases are those made visibly different from the rest of the text, typically by a change of type font, handwriting style, ink colour etc., which is intended to draw the reader’s attention to some associated change.

The global rend attribute can be attached to any element, and used wherever necessary to specify details of the highlighting used for it in the source. For example, a heading rendered in bold might be tagged <head rend="bold">, and one in italic <head rend="italic">. The values to be used for the rend attribute are not specified by the TEI Guidelines, since they will depend entirely on the needs of the particular project. Some typical values might include italic, bold etc. for font variations; center, right etc. for alignment; large, small etc. for size; smallcaps, allcaps etc. for type variants and so on. Several such words may be used in combination as necessary, but no formal syntax is proposed. The full TEI Guidelines provide more rigorous mechanisms, using other W3C standards such as CSS, as an alternative to the use of rend.

It is not always possible or desirable to interpret the reasons for such changes of rendering in a text. In such cases, the element <hi> may be used to mark a sequence of highlighted text without making any claim as to its status. <hi> (highlighted) marks a word or phrase as graphically distinct from the surrounding text, for reasons concerning which no claim is made.

In the following example, the use of a distinct typeface for the subheading and for the included name are recorded but not interpreted:

<hi rend="gothic">And this Indenture further witnesses</hi> that the said <hi rend="italic">Walter Shandy</hi>, merchant, in consideration of the said intended marriage ...</p>
<emph> (emphasized) marks words or phrases which are stressed or emphasized for linguistic or rhetorical effect.

<foreign> (foreign) identifies a word or phrase as belonging to some language other than that of the surrounding text.

<gloss> (gloss) identifies a phrase or word used to provide a gloss or definition for some other word or phrase.

<label> (label) contains any label or heading used to identify part of a text, typically but not exclusively in a list or glossary.

<mentioned> marks words or phrases mentioned, not used.

<term> (term) contains a single-word, multi-word, or symbolic designation which is regarded as a technical term.

<title> (title) contains a title for any kind of work.

Some features (notably quotations and glosses) may be found in a text either marked by highlighting, or with quotation marks. In either case, the elements <q> and <gloss> (as discussed in the following section) should be used. If the highlighting is to be recorded, use the global rend attribute.

As an example of the elements defined here, consider the following sentence:

On the one hand the Nibelungenlied is associated with the new rise of romance of twelfth-century France, the romans d’antiquité, the romances of Chrétien de Troyes, and the German adaptations of these works by Heinrich van Veldeke, Hartmann von Aue, and Wolfram von Eschenbach.

Interpreting the role of the highlighting, the sentence might look like this:

```xml
<p>On the one hand the <title>Nibelungenlied</title> is associated with the new rise of romance of twelfth-century France, the <foreign>romans d’antiquité</foreign>, the romances of Chrétien de Troyes, ...</p>
```

Describing only the appearance of the original, it might look like this:

```xml
<p>On the one hand the <hi rend="italic">Nibelungenlied</hi> is associated with the new rise of romance of twelfth-century France, the <hi rend="italic">romans d’antiquité</hi>, the romances of Chrétien de Troyes, ...</p>
```

6.2 Quotations and Related Features

Like changes of typeface, quotation marks are conventionally used to denote several different features within a text, of which the most frequent is quotation. When possible, we recommend that the underlying feature be tagged, rather than the simple fact that quotation marks appear in the text, using the following elements:

<q> (quoted) contains material which is distinguished from the surrounding text using quotation marks or a similar method, for any one of a variety of reasons including, but not limited to: direct speech or thought, technical terms or jargon, authorial distance, quotations from elsewhere, and passages that are mentioned but not used.

<mentioned> marks words or phrases mentioned, not used.

<soCalled> (so called) contains a word or phrase for which the author or narrator indicates a disclaiming of responsibility, for example by the use of scare quotes or italics.
6.3 Foreign Words or Expressions

Words or phrases which are not in the main language of the texts may be tagged as such in one of two ways. If the word or phrase is already tagged for some reason, the element indicated should bear a value for the global xml:lang attribute indicating the language used. Where there is no applicable element, the element <foreign> may be used, again using the xml:lang attribute. For example:

<p>Few dictionary makers are likely to forget Dr. Johnson's description of the lexicographer as <q>a harmless drudge.</q></p>

To record how a quotation was printed (for example, in-line or set off as a display or block quotation), the rend attribute should be used. This may also be used to indicate the kind of quotation marks used.

Direct speech interrupted by a narrator can be represented simply by ending the quotation and beginning it again after the interruption, as in the following example:

<p><q>Who-e debel you?</q> — he at last said — <q>you no speak-e, damme, I kill-e.</q> And so saying, the lighted tomahawk began flourishing about me in the dark.</p>

If it is important to convey the idea that the two <q> elements together make up a single speech, the linking attributes next and prev may be used, as described in section 8.3. Special kinds of Linking.

Quotations may be accompanied by a reference to the source or speaker, using the who attribute, whether or not this is explicit in the text, as in the following example:

<q who="#Wilson">Spaulding, he came down into the office just this day eight weeks with this very paper in his hand, and he says:--<q who="#Spaulding">I wish to the Lord, Mr. Wilson, that I was a red-headed man.</q></q>

This example also demonstrates how quotations may be embedded within other quotations: one speaker (Wilson) quotes another speaker (Spaulding).

The creator of the electronic text must decide whether quotation marks are replaced by the tags or whether the tags are added and the quotation marks kept. If the quotation marks are removed from the text, the rend attribute may be used to record the way in which they were rendered in the copy text.

The full TEI Guidelines provide additional elements to distinguish direct speech, quotation, and other typical uses of quotation mark although it is not always possible and may not be considered desirable to interpret the function of quotation marks in a text. For simplicity, only <q> (which may be used for any such case) has been included in TEI Lite.

6.3 Foreign Words or Expressions

Words or phrases which are not in the main language of the texts may be tagged as such in one of two ways. If the word or phrase is already tagged for some reason, the element indicated should bear a value for the global xml:lang attribute indicating the language used. Where there is no applicable element, the element <foreign> may be used, again using the xml:lang attribute. For example:

<p>&lt;gloss&gt; (gloss) identifies a phrase or word used to provide a gloss or definition for some other word or phrase.</p>

Here is a simple example of a quotation:
7 NOTES

As these examples show, the \texttt{<foreign>} element should not be used to tag foreign words if some other more specific element such as \texttt{<title>}, \texttt{<mentioned>}, or \texttt{<term>} applies. The global \texttt{xml:lang} attribute may be attached to any element to show that it uses some other language than that of the surrounding text.

The codes used to identify languages, supplied on the \texttt{xml:lang} attribute, must be constructed in a particular way, and must conform to common Internet standards\(^\text{2}\), as further explained in the relevant section of the TEI Guidelines. Some simple example codes for a few languages are given here:

<table>
<thead>
<tr>
<th>Code</th>
<th>Language</th>
</tr>
</thead>
<tbody>
<tr>
<td>zh</td>
<td>Chinese</td>
</tr>
<tr>
<td>en</td>
<td>English</td>
</tr>
<tr>
<td>enm</td>
<td>Middle English</td>
</tr>
<tr>
<td>fr</td>
<td>French</td>
</tr>
<tr>
<td>de</td>
<td>German</td>
</tr>
<tr>
<td>grc</td>
<td>Ancient Greek</td>
</tr>
<tr>
<td>el</td>
<td>Greek</td>
</tr>
<tr>
<td>ja</td>
<td>Japanese</td>
</tr>
<tr>
<td>la</td>
<td>Latin</td>
</tr>
<tr>
<td>sa</td>
<td>Sanskrit</td>
</tr>
</tbody>
</table>

7 Notes

All notes, whether printed as footnotes, endnotes, marginalia, or elsewhere, should be marked using the same element:

\texttt{<note>} (note) contains a note or annotation.

Where possible, the body of a note should be inserted in the text at the point at which its identifier or mark first appears. This may not be possible for example with marginalia, which may not be anchored to an exact location. For simplicity, it may be adequate to position marginal notes before the relevant paragraph or other element. Notes may also be placed in a separate division of the text (as end-notes are, in printed books) and linked to the relevant portion of the text using their \texttt{target} attribute.

The \texttt{n} attribute may be used to supply the number or identifier of a note if this is required. The \texttt{resp} attribute should be used consistently to distinguish between authorial and editorial notes, if the work has both kinds.

Examples:

\begin{quote}
Collections are ensembles of distinct entities or objects of any sort. \texttt{<note place="foot" n="1">} We explain below why we use the uncommon term \texttt{<mentioned>collection</mentioned>} instead of the expected \texttt{<mentioned>set</mentioned>}. Our usage corresponds to the \texttt{<mentioned>aggregate</mentioned>} of many mathematical writings and to the sense of \texttt{<mentioned>class</mentioned>} found in older logical writings. \texttt{</note>} The elements ...</quote>
The curse is finally expiated
And now this spell was snapt: once more
I viewed the ocean green,
And looked far forth, yet little saw
Of what had else been seen

8 Cross References and Links

Explicit cross references or links from one point in a text to another in the same or another document may be encoded using the elements described in this section. Implicit links (such as the association between two parallel texts, or that between a text and its interpretation) may be encoded using the linking attributes discussed in section 8.3. Special kinds of Linking.

8.1 Simple Cross References

A cross reference from one point within a single document to another can be encoded using either of the following elements:

<ref> (reference) defines a reference to another location, possibly modified by additional text or comment.

<ptr> (pointer) defines a pointer to another location.

The difference between these two elements is that <ptr> is an empty element, simply marking a point from which a link is to be made, whereas <ref> may contain some text as well, typically identifying the target of the cross reference. The <ptr> element would be used for a cross reference which is to be indicated by some non-verbal means such as a symbol or icon, or in an electronic text by a button. It is also useful in document production systems, where the formatter can generate the correct verbal form of the cross reference.

The following two forms, for example, are logically equivalent:

See especially <ref target="#SEC12">section 12 on page 34</ref>.

See especially <ptr target="#SEC12"/>

The value of the target attribute on either element may be the identifier of some other element within the current document. The passage or phrase being pointed at must bear an identifier, and must therefore be tagged as an element of some kind. In the following example, the cross reference is to a <div> element:

... see especially <ptr target="#SEC12"/>. ...
<div xml:id="SEC12">
<head>Concerning Identifiers</head>
</div>... -->
</div>

Because the xml:id attribute is global, any element in a TEI document may be pointed to in this way. In the following example, a paragraph has been given an identifier so that it may be pointed at:
... this is discussed in <ref target="#pspec">the paragraph on links</ref> ...

<p xml:id="pspec">Links may be made to any kind of element ...</p>

Sometimes the target of a cross reference does not correspond with any particular feature of a text, and so may not be tagged as an element of some kind. If the desired target is simply a point in the current document, the easiest way to mark it is by introducing an <anchor> element at the appropriate spot. If the target is some sequence of words not otherwise tagged, the <seg> element may be introduced to mark them. These two elements are described as follows:

- <anchor> (anchor point) attaches an identifier to a point within a text, whether or not it corresponds with a textual element.
- <seg> (arbitrary segment) represents any segmentation of text below the chunk level.

In the following (imaginary) example, <ref> elements have been used to represent points in this text which are to be linked in some way to other parts of it; in the first case to a point, and in the second, to a sequence of words:

Returning to <ref target="#ABCD">the point where I dozed off</ref>, I noticed that <ref target="#EFGH">three words</ref> had been circled in red by a previous reader.

This encoding requires that elements with the specified identifiers (ABCD and EFGH in this example) are to be found somewhere else in the current document. Assuming that no element already exists to carry these identifiers, the <anchor> and <seg> elements may be used:

....

<anchor type="bookmark" xml:id="ABCD"/> ..... ....<seg type="target" xml:id="EFGH"> ...

</seg> ...

The type attribute should be used (as above) to distinguish amongst different purposes for which these general purpose elements might be used in a text. Some other uses are discussed in section 8.3. Special kinds of Linking below.

8.2 Pointing to other documents

So far, we have shown how the elements <ptr> and <ref> may be used for cross-references or links whose targets occur within the same document as their source. However, the same elements may also be used to refer to elements in any other XML document or resource, such as a document on the web, or a database component. This is possible because the value of the target attribute may be any valid universal resource indicator (URI) 

[Note: A full definition of this term, defined by the W3C (the consortium which manages the development and maintenance of the World Wide Web), is beyond the scope of this tutorial: however, the most frequently encountered version of a URI is the familiar URL used to indicate a web page, such as http://www.tei-c.org/index.xml].

A URI may reference a web page or just a part of one, for example http://www.tei-c.org/index.xml#SEC2. The sharp sign indicates that what follows it is the identifier of an element to be located within the XML document identified by what precedes it: this example will therefore locate an element which has an xml:id attribute value of SEC2 within the document retrieved from http://www.tei-c.org/index.xml. In the examples we have discussed so far, the part to the left of the sharp sign has been omitted:
this is understood to mean that the referenced element is to be located within the current document.

Parts of an XML document can be specified by means of other more sophisticated mechanisms using a special language called Xpath, also defined by the W3C. This is particularly useful where the elements to be linked to do not bear identifiers and must therefore be located by some other means.

8.3 Special kinds of Linking

The following special purpose linking attributes are defined for every element in the TEI Lite scheme:

*ana* links an element with its interpretation.

*corresp* links an element with one or more other corresponding elements.

*next* links an element to the next element in an aggregate.

*prev* links an element to the previous element in an aggregate.

The *ana* (analysis) attribute is intended for use where a set of abstract analyses or interpretations have been defined somewhere within a document, as further discussed in section 15. *Interpretation and Analysis*. For example, a linguistic analysis of the sentence John loves Nancy might be encoded as follows:

```xml
<seg type="sentence" ana="SVO">
  <seg type="lex" ana="#NP1">John</seg>
  <seg type="lex" ana="#VVI">loves</seg>
  <seg type="lex" ana="#NP1">Nancy</seg>
</seg>
```

This encoding implies the existence elsewhere in the document of elements with identifiers SVO, NP1, and VV1 where the significance of these particular codes is explained. Note the use of the `<seg>` element to mark particular components of the analysis, distinguished by the *type* attribute.

The *corresp* (corresponding) attribute provides a simple way of representing some form of correspondence between two elements in a text. For example, in a multilingual text, it may be used to link translation equivalents, as in the following example:

```xml
<seg xml:lang="fr" xml:id="FR1" corresp="#EN1">Jean aime Nancy</seg>
<seg xml:lang="en" xml:id="EN1" corresp="#FR1">John loves Nancy</seg>
```

The same mechanism may be used for a variety of purposes. In the following example, it has been used to represent the correspondences between the show and Shirley, and between NBC and the network:

```xml
<p>
  <title xml:id="shirley">Shirley</title>, which made its Friday night debut only a month ago, was not listed on <name xml:id="nbc">NBC</name>’s new schedule, although <seg xml:id="network" corresp="#nbc">the network</seg>
</p>
```
The next and prev attributes provide a simple way of linking together the components of a discontinuous element, as in the following example:

```xml
<q xml:id="Q1a" next="#Q1b">Who-e debel you?</q> —
he at last said — <q xml:id="Q1b" prev="#Q1a">you no speak-e, damme, I kill-e.</q>
And so saying, the lighted tomahawk began flourishing about me in the dark.
```

9 Editorial Interventions

The process of encoding an electronic text has much in common with the process of editing a manuscript or other text for printed publication. In either case a conscientious editor may wish to record both the original state of the source and any editorial correction or other change made in it. The elements discussed in this and the next section provide some facilities for meeting these needs.

9.1 Correction and Normalization

The following elements may be used to mark correction, that is editorial changes introduced where the editor believes the original to be erroneous:

- `<corr>` (correction) contains the correct form of a passage apparently erroneous in the copy text.
- `<sic>` (Latin for thus or so) contains text reproduced although apparently incorrect or inaccurate.

The following elements may be used to mark normalization, that is editorial changes introduced for the sake of consistency or modernization of a text:

- `<orig>` (original form) contains a reading which is marked as following the original, rather than being normalized or corrected.
- `<reg>` (regularization) contains a reading which has been regularized or normalized in some sense.

As an example, consider this extract from the quarto printing of Shakespeare’s *Henry V*.

... for his nose was as sharp as a pen and a table of green feelds

A modern editor might wish to make a number of interventions here, specifically to modernize (or normalise) the Elizabethan spellings of *a*’ and *feelds* for *he* and *fields* respectively. He or she might also want to emend *table* to *babbl’d*, following an editorial tradition that goes back to the 18th century Shakespearian scholar Lewis Theobald. The following encoding would then be appropriate:

... for his nose was as sharp as
a pen and `<reg>he</reg>`
`<corr resp="#Theobald">babbl’d</corr>` of green
`<reg>fields</reg>`

A more conservative or source-oriented editor, however, might want to retain the original, but at the same time signal that some of the readings it contains are in some sense anomalous:
9.2 Omissions, Deletions, and Additions

In addition to correcting or normalizing words and phrases, editors and transcribers may also supply missing material, omit material, or transcribe material deleted or crossed out in the source. In addition, some material may be particularly hard to transcribe because it is hard to make out on the page. The following elements may be used to record such phenomena:

- `<add>` (addition) contains letters, words, or phrases inserted in the source text by an author, scribe, or a previous annotator or corrector.
- `<gap>` (gap) indicates a point where material has been omitted in a transcription, whether for editorial reasons described in the TEI header, as part of sampling practice, or because the material is illegible, invisible, or inaudible.
- `<del>` (deletion) contains a letter, word, or passage deleted, marked as deleted, or otherwise indicated as superfluous or spurious in the copy text by an author, scribe, or a previous annotator or corrector.
- `<unclear>` (unclear) contains a word, phrase, or passage which cannot be transcribed with certainty because it is illegible or inaudible in the source.

These elements may be used to record changes made by an editor, by the transcriber, or (in manuscript material) by the author or scribe. For example, if the source for an electronic text read The following elements are provided for simple editorial interventions. then it might be felt desirable to correct the obvious error, but at the same time to record the deletion of the superfluous second for, thus:

```
The following elements are provided for <del resp="#LB">for</del> simple editorial interventions.
```

The attribute value `#LB` on the `resp` attribute is used to point to a fuller definition (typically in a `<respStmt>` element) for the agency responsible for correcting the duplication of `for`.

If the source read The following elements provided for simple editorial interventions. (i.e. if the verb had been inadvertently dropped) then the corrected text might read:

```
... for his nose was as sharp as a pen and
<orig>a</orig>
<sic>table</sic> of green
<orig>feelds</orig>
```

Finally, a modern digital editor may decide to combine both possibilities in a single composite text, using the `<choice>` element.

```
<choice>
<orig>a</orig>
<reg>he</reg>
</choice>
```

```
<choice>
<corr resp="#Theobald">babbl'd</corr>
<sic>table</sic>
</choice> of green
```

```
<choice>
<orig>feelds</orig>
<reg>fields</reg>
</choice>
```

```
... for his nose was as sharp as a pen and
<choice>
<orig>a</orig>
<reg>he</reg>
</choice>
<choice>
<corr resp="#Theobald">babbl'd</corr>
<sic>table</sic>
</choice> of green
<choice>
<orig>feelds</orig>
<reg>fields</reg>
</choice>
```
The following elements `<add resp="#LB">are</add>` provided for simple editorial interventions.

These elements are also used to record authorial changes in manuscripts. A manuscript in which the author has first written How it galls me, what a galling shadow, then crossed out the word *galls* and inserted *dogs* might be encoded thus:

```
How it <del hand="#DHL" type="overstrike">galls</del>
<add hand="#DHL" place="supralinear">dogs</add> me, what a galling shadow
```

Again, the code #DHL points to another location where more information about the hand concerned is to be found. Similarly, the `<unclear>` and `<gap>` elements may be used together to indicate the omission of illegible material; the following example also shows the use of `<add>` for a conjectural emendation:

```
One hundred
& twenty good regulars joined to me <unclear>
<gap reason="indecipherable"/>
& instantly, would aid me signally <add hand="#ed">in?</add> an enterprise against Wilmington.
```

The `<del>` element marks material which has been transcribed as part of the electronic text despite being marked as deleted, while `<gap>` marks the location of material which is omitted from the electronic text, whether it is legible or not. A language corpus, for example, might omit long quotations in foreign languages:

```
... An example of a list appearing in a fief ledger of <name type="place">Koldinghus</name>
<date>1611/12</date> is given below. It shows cash income from a sale of honey.
<gap>
<desc>quotation from ledger (in Danish)</desc>
</gap>
A description of the overall structure of the account is once again ...
```

Other corpora (particular those constructed before the widespread use of scanners) systematically omit figures and mathematics:

```
At the bottom of your screen below the mode line is the <term>minibuffer</term>. This is the area where Emacs echoes the commands you enter and where you specify filenames for Emacs to find, values for search and replace, and so on. <gap reason="graphic">
<desc>dagram of Emacs screen</desc>
</gap>
```

3The full TEI provides a range of elements for encoding metadata about manuscript production and description, which are not however included in TEI Lite.
9.3 Abbreviations and their Expansion

Like names, dates, and numbers, abbreviations may be transcribed as they stand or expanded; they may be left unmarked, or encoded using the following elements:

- `<abbr>` (abbreviation) contains an abbreviation of any sort.
- `<expan>` (expansion) contains the expansion of an abbreviation.

The `<abbr>` element is useful as a means of distinguishing semi-lexical items such as acronyms or jargon:

```
We can sum up the above discussion as follows: the identity of a `<abbr>`CC`</abbr>` is defined by that calibration of values which motivates the elements of its `<abbr>`GSP`</abbr>```

Every manufacturer of `<abbr>`3GL`</abbr>` or `<abbr>`4GL`</abbr>` languages is currently nailing on `<abbr>`OOP`</abbr>` extensions.

The `<expan>` element is used to mark an expansion supplied by an encoder. This element is particularly useful in the transcription of manuscript materials. For example, the character p with a bar through its descender as a conventional representation for the word per is commonly encountered in Medieval European manuscripts. An encoder may choose to expand this as follows:

```
<expan>per</expan>
```

The expansion corresponding with an abbreviated form may not always contain the same letters as the abbreviation. Where it does, however, common editorial practice is to italicize or otherwise signal which letters have been supplied. The `<expan>` element should not be used for this purpose since its function is to indicate an expanded form, not a part of one. For example, consider the common abbreviation wt (for with) found in medieval texts. In a modern edition, an editor might wish to represent this as `with`, italicising the letters not found in the source. One simple means of achieving that would be an encoding such as the following:

```
<expan>`<hi rend="it">i</hi>`<hi rend="it">h</hi>`
```

The full TEI also provides elements `<ex>` and `<am>` for use in this situation, but these are not included in the TEI Lite schema.

To record both an abbreviation and its expansion, the `<choice>` element mentioned above may be used to group the abbreviated form with its proposed expansion:

```
<choice>
  <abbr>wt`</abbr>
  <expan>with`</expan>
</choice>
```
10 Names, Dates, and Numbers

The TEI scheme defines elements for a large number of data-like features which may appear almost anywhere within almost any kind of text. These features may be of particular interest in a range of disciplines; they all relate to objects external to the text itself, such as the names of persons and places, numbers and dates. They also pose particular problems for many natural language processing (NLP) applications because of the variety of ways in which they may be presented within a text. The elements described here, by making such features explicit, reduce the complexity of processing texts containing them.

10.1 Names and Referring Strings

A **referring string** is a phrase which refers to some person, place, object, etc. Two elements are provided to mark such strings:

- `<rs>` (referring string) contains a general purpose name or referring string.
- `<name>` (name, proper noun) contains a proper noun or noun phrase.

The `type` attribute is used to distinguish amongst (for example) names of persons, places and organizations, where this is possible:

```xml
<q>My dear <rs type="person">Mr. Bennet</rs>, </q>
said his lady to him one day,
<q>have you heard that <rs type="place">Netherfield Park</rs> is let at last?</q>
```

It being one of the principles of the `<rs type="organization">Circumlocution Office</rs> never, on any account whatsoever, to give a straightforward answer, `<rs type="person">Mr Barnacle</rs> said,
<q>Possibly.</q>

As the following example shows, the `<rs>` element may be used for any reference to a person, place, etc, not necessarily one in the form of a proper noun or noun phrase.

```xml
<q>My dear <rs type="person">Mr. Bennet</rs>, </q>
said `<rs type="person">his lady</rs> to him one day...
```

The `<name>` element by contrast is provided for the special case of referencing strings which consist only of proper nouns; it may be used synonymously with the `<rs>` element, or nested within it if a referring string contains a mixture of common and proper nouns.

Simply tagging something as a name is rarely enough to enable automatic processing of personal names into the canonical forms usually required for reference purposes. The name as it appears in the text may be inconsistently spelled, partial, or vague. Moreover, name prefixes such as *van* or *de la*, may or may not be included as part of the reference form of a name, depending on the language and country of origin of the bearer.

The `key` attribute provides an alternative normalized identifier for the object being named, like a database record key. It may thus be useful as a means of gathering together all references to the same individual or location scattered throughout a document:

```xml
<q>My dear <rs type="person" key="BENM1">Mr. Bennet</rs>, </q>
said `<rs type="person" key="BENM2">his lady</rs> to him one day,
<q>have you heard that <rs type="place" key="NETP1">Netherfield Park</rs> is let at last?</q>
```
This use should be distinguished from the case of the `<reg>` (regularization) element, which provides a means of marking the standard form of a referencing string as demonstrated below:

```
<name type="person" key="WADLM1">
  <choice>
    <sic>Walter de la Mare</sic>
    <reg>de la Mare, Walter</reg>
  </choice>
</name>

was born at <name key="Ch1" type="place">Charlton</name>, in <name key="KT1" type="county">Kent</name> in 1873.
```

The `<index>` element discussed in indexing may be more appropriate if the function of the regularization is to provide a consistent index:

```
<p>
  <name type="place">Montaillou</name> is not a large parish. At the time of the events which led to <name type="person">Fournier</name>’s
  <index>
    <term>Benedict XII, Pope of Avignon (Jacques Fournier)</term>
  </index>
  investigations, the local population consisted of between 200 and 250 inhabitants.
</p>
```

Although adequate for many simple applications, these methods have two inconveniences: if the name occurs many times, then its regularised form must be repeated many times; and the burden of additional XML markup in the body of the text may be inconvenient to maintain and complex to process. For applications such as onomastics, relating to persons or places named rather than the name itself, or wherever a detailed analysis of the component parts of a name is needed, the full TEI Guidelines provide a range of other solutions.

### 10.2 Dates and Times

Tags for the more detailed encoding of times and dates include the following:

- `<date>` (date) contains a date in any format.
- `<time>` (time) contains a phrase defining a time of day in any format.

These elements have a number of attributes which can be used to provide normalised versions of their values.

- `att.datable` provides attributes for normalization of elements that contain dates, times, or datable events.
  - `@period` supplies a pointer to some location defining a named period of time within which the datable item is understood to have occurred.
  - `@when [att.datable.w3c]` supplies the value of the date or time in a standard form, e.g. yyyy-mm-dd.

The `when` attribute specifies a normalized form for the date or time, using one of the standard formats defined by ISO 8601. Partial dates or times (e.g. 1990, September 1990, twelvish) can be expressed by omitting a part of the value supplied, as in the following examples:

```
<date when="1980-02-21">21 Feb 1980</date>
<date when="1990">1990</date>
<date when="1990-09">September 1990</date>
<date when="--09">September</date>
```
11 Lists

The element <list> is used to mark any kind of list. A list is a sequence of text items, which may be numbered, bulleted, or arranged as a glossary list. Each item may be preceded by an item label (in a glossary list, this label is the term being defined):

- <list> (list) contains any sequence of items organized as a list.
- <item> (item) contains one component of a list.
- <label> (label) contains any label or heading used to identify part of a text, typically but not exclusively in a list or glossary.

Individual list items are tagged with <item>. The first <item> may optionally be preceded by a <head>, which gives a heading for the list. The numbering of a list may be omitted, indicated using the n attribute on each item, or (rarely) tagged as content using the <label> element. The following are all thus equivalent:

<List>
  <head>A short list</head>
  <item>First item in list.</item>
  <item>Second item in list.</item>
</List>
The styles should not be mixed in the same list.

A simple two-column table may be treated as a **glossary list**, tagged `<list type="gloss">`. Here, each item comprises a *term* and a *gloss*, marked with `<label>` and `<item>` respectively. These correspond to the elements `<term>` and `<gloss>`, which can occur anywhere in prose text.

Where the internal structure of a list item is more complex, it may be preferable to regard the list as a **table**, for which special-purpose tagging is defined below ([13. Tables]).

Lists of whatever kind can, of course, nest within list items to any depth required. Here, for example, a glossary list contains two items, each of which is itself a simple list:
<list type="gloss">
  <label>EVIL</label>
  <item>
    <list type="simple">
      <item>I am cast upon a horrible desolate island, void of all hope of recovery.</item>
      <item>I am singled out and separated as it were from all the world to be miserable.</item>
      <item>I am divided from mankind – a solitaire; one banished from human society.</item>
    </list>
  </item>
</list>

<list type="gloss">
  <label>GOOD</label>
  <item>
    <list type="simple">
      <item>But I am alive; and not drowned, as all my ship's company were.</item>
      <item>But I am singled out, too, from all the ship's crew, to be spared from death...</item>
      <item>But I am not starved, and perishing on a barren place, affording no sustenances....</item>
    </list>
  </item>
</list>

A list need not necessarily be displayed in list format. For example,

<p>On those remote pages it is written that animals are divided into <list rend="run-on">
  <item n="a">those that belong to the Emperor,</item>
  <item n="b">embalmed ones, </item>
  <item n="c"> those that are trained, </item>
  <item n="d"> suckling pigs, </item>
  <item n="e"> mermaids, </item>
  <item n="f"> fabulous ones, </item>
  <item n="g"> stray dogs, </item>
  <item n="h"> those that are included in this classification, </item>
  <item n="i"> those that tremble as if they were mad, </item>
  <item n="j"> innumerable ones, </item>
  <item n="k"> those drawn with a very fine camel's-hair brush, </item>
  <item n="l"> others, </item>
  <item n="m"> those that have just broken a flower vase, </item>
  <item n="n"> those that resemble flies from a distance.</item>
</list>
</p>

Lists of bibliographic items should be tagged using the <listBibl> element, described in the next section.

12 Bibliographic Citations

It is often useful to distinguish bibliographic citations where they occur within texts being transcribed for research, if only so that they will be properly formatted when the text is printed out. The element <bibl> is provided for this purpose. Where the components of a bibliographic reference are to be distinguished, the following elements may be used as appropriate. It is generally useful to mark at least those parts (such as the titles of articles, books, and journals) which will need special formatting. The other elements are provided for cases where particular interest attaches to such details.

<bibl> (bibliographic citation) contains a loosely-structured bibliographic citation of which the sub-components may or may not be explicitly tagged.
<author> (author) in a bibliographic reference, contains the name(s) of an author, personal or corporate, of a work; for example in the same form as that provided by a recognized bibliographic name authority.

<biblScope> (scope of bibliographic reference) defines the scope of a bibliographic reference, for example as a list of page numbers, or a named subdivision of a larger work.

date> (date) contains a date in any format.

editor> contains a secondary statement of responsibility for a bibliographic item, for example the name of an individual, institution or organization, (or of several such) acting as editor, compiler, translator, etc.

publisher> (publisher) provides the name of the organization responsible for the publication or distribution of a bibliographic item.

pubPlace> (publication place) contains the name of the place where a bibliographic item was published.

title> (title) contains a title for any kind of work.

For example, the following editorial note might be transcribed as shown:

He was a member of Parliament for Warwickshire in 1445, and died March 14, 1470 (according to Kittredge, *Harvard Studies* 5. 88ff).

For lists of bibliographic citations, the <listBibl> element should be used; it may contain a series of <bibl> elements.

## 13 Tables

Tables represent a challenge for any text processing system, but simple tables, at least, appear in so many texts that even in the simplified TEI tag set presented here, markup for tables is necessary. The following elements are provided for this purpose:

<table> (table) contains text displayed in tabular form, in rows and columns.

<row> (row) contains one row of a table.

<cell> (cell) contains one cell of a table.

For example, Defoe uses mortality tables like the following in the *Journal of the Plague Year* to show the rise and ebb of the epidemic:

<p>It was indeed coming on a main, for the burials that same week were in the next adjoining parishes thus:– <table rows="5" cols="4">
    <row role="data">
        <cell role="label">St. Leonard's, Shoreditch</cell>
        <cell>64</cell>
        <cell>84</cell>
        <cell>119</cell>
    </row>
    <row role="data">
        <cell role="label">St. Botolph's, Bishopsgate</cell>
        <cell>65</cell>
        <cell>105</cell>
    </row>
</table>

13 Tables
This shutting up of houses was at first counted a very cruel and unchristian method, and the poor people so confined made bitter lamentations. ... 

14 Figures and Graphics

Not all the components of a document are necessarily textual. The most straightforward text will often contain diagrams or illustrations, to say nothing of documents in which image and text are inextricably intertwined, or electronic resources in which the two are complementary.

The encoder may simply record the presence of a graphic within the text, possibly with a brief description of its content, and may also provide a link to a digitized version of the graphic, using the following elements:

- `<graphic>` (graphic) indicates the location of a graphic or illustration, either forming part of a text, or providing an image of it.
- `<figure>` (figure) groups elements representing or containing graphic information such as an illustration, formula, or figure.
- `<figDesc>` (description of figure) contains a brief prose description of the appearance or content of a graphic figure, for use when documenting an image without displaying it.

Any textual information accompanying the graphic, such as a heading and/or caption, may be included within the `<figure>` element itself, in a `<head>` and one or more `<p>` elements, as also may any text appearing within the graphic itself. It is strongly recommended that a prose description of the image be supplied, as the content of a `<figDesc>` element, for the use of applications which are not able to render the graphic, and to render the document accessible to vision-impaired readers. (Such text is not normally considered part of the document proper.)

The simplest use for these elements is to mark the position of a graphic and provide a link to it, as in this example;

```
<figure>
  <graphic url="p412fig.png"/>
</figure>
```

This indicates that the graphic contained by the file p412fig.png appears between pages 412 and 413.

The `<graphic>` element can appear anywhere that textual content is permitted, within but not between paragraphs or headings. In the following example, the encoder has decided to treat a specific printer’s ornament as a heading:

```
<head>
  <graphic url="http://www.iath.virginia.edu/gants/Ornaments/Heads/hp-ral02.gif"/>
</head>
```

More usually, a graphic will have at least an identifying title, which may be encoded using the `<head>` element, or a number of figures may be grouped together in a particular structure.
It is also often convenient to include a brief description of the image. The `<figure>` element provides a means of wrapping one or more such elements together as a kind of graphic block:

```xml
<figure>
  <graphic url="fessipic.png"/>
  <head>Mr Fezziwig's Ball</head>
  <figDesc>A Cruikshank engraving showing Mr Fezziwig leading a group of revellers.</figDesc>
</figure>
```

These cases should be carefully distinguished from the case where an encoded text is complemented by a collection of digital images, maintained as a distinct resource. The `facs` attribute may be used to associate any element in an encoded text with a digital facsimile of it. In the simple case where only page images are available, the `facs` attribute on the `<pb>` element may be used to associate each image with an appropriate point in the text:

```xml
<text>
  <pb facs="page1.png" n="1"/>
  <!-- text contained on page 1 is encoded here -->
  <pb facs="page2.png" n="2"/>
  <!-- text contained on page 2 is encoded here -->
</text>
```

This method is only appropriate in the simple case where each digital image file `page1.png` etc. corresponds with a single transcribed and encoded page. If more detailed alignment of image and transcription is required, for example because the image files actually represent double page spreads, more sophisticated mechanisms are provided in the full TEI Guidelines.

## 15 Interpretation and Analysis

It is often said that all markup is a form of interpretation or analysis. While it is certainly difficult, and may be impossible, to distinguish firmly between objective and subjective information in any universal way, it remains true that judgments concerning the latter are typically regarded as more likely to provide controversy than those concerning the former. Many scholars therefore prefer to record such interpretations only if it is possible to alert the reader that they are considered more open to dispute, than the rest of the markup. This section describes some of the elements provided by the TEI scheme to meet this need.

### 15.1 Orthographic Sentences

Interpretation typically ranges across the whole of a text, with no particular respect to other structural units. A useful preliminary to intensive interpretation is therefore to segment the text into discrete and identifiable units, each of which can then bear a label for use as a sort of canonical reference. To facilitate such uses, these units may not cross each other, nor nest within each other. They may conveniently be represented using the following element:

```xml
<s> (s-unit) contains a sentence-like division of a text.
```

As the name suggests, the `<s>` element is most commonly used (in linguistic applications at least) for marking orthographic sentences, that is, units defined by orthographic features such as punctuation. For example, the passage from *Jane Eyre* discussed earlier might be divided into s-units as follows:

```xml
<pb n="474"/>
<div type="chapter" n="38">
  <p>
```

33
Reader, I married him.

A quiet wedding we had: he and I, the parson and clerk, were alone present.

When we got back from church, I went into the kitchen of the manor-house, where Mary was cooking the dinner, and John cleaning the knives, and I said —

Mary, I have been married to Mr Rochester this morning.

Note that elements cannot nest: the beginning of one element implies that the previous one has finished. When s-units are tagged as shown above, it is advisable to tag the entire text end-to-end, so that every word in the text being analysed will be contained by exactly one element, whose identifier can then be used to specify a unique reference for it. If the identifiers used are unique within the document, then the xml:id attribute might be used in preference to the n used in the above example.

15.2 Words and punctuation

Tokenization, that is, the identification of lexical or non-lexical tokens within a text, is a very common requirement for all kinds of textual analysis, and not an entirely trivial one. The decision as to whether, for example, can’t in English or du in French should be treated as one word or two is not simple. Consequently it is often useful to make explicit the preferred tokenization in a marked up text. The following elements are available for this purpose:

- `<w>` (word) represents a grammatical (not necessarily orthographic) word.
- `<pc>` (punctuation character) contains a character or string of characters regarded as constituting a single punctuation mark.

For example, the output from a part of speech tagger might be recorded in TEI Lite as follows:

```
<s n="l">
  <w ana="#NP0">Marley</w>
  <w ana="#VBD">was</w>
  <w ana="#AJ0">dead</w>
  <pc>:</pc>
  <w ana="#TO0">to</w>
  <w ana="#VBB">begin</w>
  <w ana="#PRP">with</w>
  <pc>. </pc>
</s>
```

In this example, each word has been decorated with an automatically generated part of speech code, using the ana attribute discussed in section 8.3. Special kinds of Linking above. The `<w>` also provides for each word to be associated with a root form or lemma, either explicitly using the lemma attribute, or by reference, using the lemmaRef attribute, as in this example:

```
...<w ana="#VBD" lemma="be" lemmaRef="http://www.myLexicon.com/be">was</w> ...
```
15.3 General-Purpose Interpretation Elements

The `<w>` element is a specialisation of the `<seg>` element which has already been introduced for use in identifying otherwise unmarked targets of cross references and hypertext links (see section 8. Cross References and Links); it identifies some phrase-level portion of text to which the encoder may assign a user-specified `type`, as well as a unique identifier; it may thus be used to tag textual features for which there is no other provision in the published TEI Guidelines.

For example, the Guidelines provide no apostrophe element to mark parts of a literary text in which the narrator addresses the reader (or hearer) directly. One approach might be to regard these as instances of the `<q>` element, distinguished from others by an appropriate value for the `who` attribute. A possibly simpler, and certainly more general, solution would however be to use the `<seg>` element as follows:

```xml
<div type="chapter" n="38">
  <p>
    <seg type="apostrophe">Reader, I married him.</seg> A quiet wedding we had:
    ...</p>
</div>
```

The `type` attribute on the `<seg>` element can take any value, and so can be used to record phrase-level phenomena of any kind; it is good practice to record the values used and their significance in the header.

A `<seg>` element of one type (unlike the `<s>` element which it superficially resembles) can be nested within a `<seg>` element of the same or another type. This enables quite complex structures to be represented; some examples were given in section 8.3. Special kinds of Linking above. However, because it must respect the requirement that elements be properly nested and may not cut across each other, it cannot cope with the common requirement to associate an interpretation with arbitrary segments of a text which may completely ignore the document hierarchy. It also requires that the interpretation itself be represented by a single coded value in the `type` attribute.

Neither restriction applies to the `<interp>` element, which provides powerful features for the encoding of quite complex interpretive information in a relatively straightforward manner. `<interp>` (interpretation) summarizes a specific interpretative annotation which can be linked to a span of text. `<interpGrp>` (interpretation group) collects together a set of related interpretations which share responsibility or type.

These elements allow the encoder to specify both the class of an interpretation, and the particular instance of that class which the interpretation involves. Thus, whereas with `<seg>` one can say simply that something is an apostrophe, with `<interp>` one can say that it is an instance (apostrophe) of a larger class (rhetorical figures).

Moreover, `<interp>` is a stand off element: it does not surround the segments of text which it describes, but instead is linked to the passage in question either by means of the `ana` attribute discussed in section 8.3. Special kinds of Linking above, or by means of its own `inst` attribute. This means that any kind of analysis can be represented, independently of the document hierarchy, as well as facilitating the grouping of analyses of a particular type together. A special purpose `<interpGrp>` element is provided for the latter purpose.

For example, suppose that you wish to mark such diverse aspects of a text as themes or subject matter, rhetorical figures, and the locations of individual scenes of the narrative. Different portions of our sample passage from Jane Eyre for example, might be associated with the rhetorical figures of apostrophe, hyperbole, and metaphor; with subject-matter references to churches, servants, cooking, postal service, and honeymoons; and with scenes located in the church, in the kitchen, and in an unspecified location (drawing room?).
These interpretations could be placed anywhere within the `<text>` element; it is however good practice to put them all in the same place (e.g. a separate section of the front or back matter), as in the following example:

```
<back>
  <div type="Interpretations">
    <p>
      <interp xml:id="fig-apos-1" resp="#LB-MSM" type="figureOfSpeech">apostrophe</interp>
      <interp xml:id="fig-hyp-1" resp="#LB-MSM" type="figureOfSpeech">hyperbole</interp>
      <interp xml:id="set-church-1" resp="#LB-MSM" type="setting">church</interp>
      <interp xml:id="ref-church-1" resp="#LB-MSM" type="reference">church</interp>
      <interp xml:id="ref-serv-1" resp="#LB-MSM" type="reference">servants</interp>
    </p>
  </div>
</back>
```

The evident redundancy of this encoding can be considerably reduced by using the `<interp-Grp>` element to group together all those `<interp>` elements which share common attribute values, as follows:

```
<back>
  <div type="Interpretations">
    <p>
      <interpGrp type="figureOfSpeech" resp="#LB-MSM">
        <interp xml:id="fig-apos">apostrophe</interp>
        <interp xml:id="fig-hyp">hyperbole</interp>
        <interp xml:id="fig-meta">metaphor</interp>
      </interpGrp>
      <interpGrp type="scene-setting" resp="#LB-MSM">
        <interp xml:id="set-church">church</interp>
        <interp xml:id="set-kitch">kitchen</interp>
        <interp xml:id="set-unspec">unspecified</interp>
      </ interpGrp>
      <interpGrp type="reference" resp="#LB-MSM">
        <interp xml:id="ref-church">church</interp>
        <interp xml:id="ref-serv">servants</interp>
        <interp xml:id="ref-cook">cooking</interp>
      </ interpGrp>
    </p>
  </div>
</back>
```

Once these interpretation elements have been defined, they can be linked with the parts of the text to which they apply in either or both of two ways. The `ana` attribute can be used on whichever element is appropriate:

```
<div type="chapter" n="38">
  <p xml:id="P38.1" ana="#set-church #set-kitch">
```

36
Reader, I married him.

Note in this example that since the paragraph has two settings (in the church and in the kitchen), the identifiers of both have been supplied.

Alternatively, the `<interp>` elements can point to all the parts of the text to which they apply, using their `inst` attribute:

```xml
<interp xml:id="fig-apos-2" type="figureOfSpeech" inst="#P38.1.1">apostrophe</interp>
<interp xml:id="set-church-2" type="scene-setting" inst="#P38.1" resp="#LB-MSM">church</interp>
< interp xml:id="set-kitchen-2" type="scene-setting" inst="#P38.1" resp="#LB-MSM">kitchen</interp>
```

The `<interp>` element is not limited to any particular type of analysis. The literary analysis shown above is but one possibility; one could equally well use `<interp>` to capture a linguistic part-of-speech analysis. For example, the example sentence given in section 8.3. *Special kinds of Linking* assumes a linguistic analysis which might be represented as follows:

```xml
<interp xml:id="NP1" type="pos">noun phrase, singular</interp>
< interp xml:id="VV1" type="pos">inflected verb, present-tense singular</interp> ...
```

### 16 Technical Documentation

Although the focus of this document is on the use of the TEI scheme for the encoding of existing pre-electronic documents, the same scheme may also be used for the encoding of new documents. In the preparation of new documents (such as this one), XML has much to recommend it: the document’s structure can be clearly represented, and the same electronic text can be re-used for many purposes — to provide both online hypertext or browsable versions and well-formatted typeset versions from a common source for example.

To facilitate this, the TEI Lite schema includes some elements for marking features of technical documents in general, and of XML-related documents in particular.

#### 16.1 Additional Elements for Technical Documents

The following elements may be used to mark particular features of technical documents:

- `<eg>` (example) contains any kind of illustrative example.
- `<code>` contains literal code from some formal language such as a programming language.
- `<ident>` (identifier) contains an identifier or name for an object of some kind in a formal language. `<ident>` is used for tokens such as variable names, class names, type names, function names etc. in formal programming languages.
- `<gi>` (element name) contains the name (generic identifier) of an element.
- `<att>` (attribute) contains the name of an attribute appearing within running text.
- `<formula>` (formula) contains a mathematical or other formula.
- `<val>` (value) contains a single attribute value.
The following example shows how these elements might be used to encode a passage from a tutorial introducing the Fortran programming language:

<eg xml:space="preserve">CHAR*12 GRTG
GRTG = 'HELLO WORLD'
PRINT *, GRTG
END</eg>

This simple example first declares a variable <ident>GRTG</ident>, in the line <code>CHAR*12 GRTG</code>, which identifies <ident>GRTG</ident> as consisting of 12 bytes of type <ident>CHAR</ident>. To this variable, the value <val>HELLO WORLD</val> is then assigned.

A formatting application, given a text like that above, can be instructed to format examples appropriately (e.g. to preserve line breaks, or to use a distinctive font). Similarly, the use of tags such as <ident>greatly facilitates the construction of a useful index.

The <formula> element should be used to enclose a mathematical or chemical formula presented within the text as a distinct item. Since formulae generally include a large variety of special typographic features not otherwise present in ordinary text, it will usually be necessary to present the body of the formula in a specialized notation. The notation used should be specified by the notation attribute, as in the following example:

<formula notation="tex"> \begin{math}E = mc^{2}\end{math} </formula>

A particular problem arises when XML encoding is the subject of discussion within a technical document, itself encoded in XML. In such a document, it is clearly essential to distinguish clearly the markup occurring within examples from that marking up the document itself, and end-tags are highly likely to occur. One simple solution is to use the predefined entity reference &lt; to represent each < character which marks the start of an XML tag within the examples. A more general solution is to mark off the whole body of each example as containing data which is not to be scanned for XML mark-up by the parser. This is achieved by enclosing it within a special XML construct called a "CDATA marked section", as in the following example:

<eg><![CDATA[<list><item>First item in the list</item><item>Second item</item></list>]]></eg> The <gi>list</gi> element consists of a series of <gi>item</gi> elements.

The <list> element used within the example above will not be regarded as forming part of the document proper, because it is embedded within a marked section (beginning with the special markup declaration <![CDATA[ , and ending with ]]>).

Note also the use of the <gi> element to tag references to element names (or generic identifiers) within the body of the text.

16.2 Generated Divisions
Most modern document production systems have the ability to generate automatically whole sections such as a table of contents or an index. The TEI Lite scheme provides an element to mark the location at which such a generated section should be placed.
16.3 Index Generation

<divGen> (automatically generated text division) indicates the location at which a
textual division generated automatically by a text-processing application is to appear.
The <divGen> element can be placed anywhere that a division element would be legal, as in the following example:

```html
<front>
  <titlePage>
  <!-- ... -->
  </titlePage>
  <divGen type="toc"/>
  <div>
    <head>Preface</head>
  </div>
  </front>
  <body>
  <!-- ... -->
  </body>
  <back>
  <divGen type="index" n="Index"/>
  </div>
  </back>

This example also demonstrates the use of the type attribute to distinguish the different kinds of division to be generated: in the first case a table of contents (a toc) and in the second an index.

When an existing index or table of contents is to be encoded (rather than one being generated) for some reason, the <list> element discussed in section 11. Lists should be used.

16.3 Index Generation

While production of a table of contents from a properly tagged document is generally unproblematic for an automatic processor, the production of a good quality index will often require more careful tagging. It may not be enough simply to produce a list of all parts tagged in some particular way, although extracting (for example) all occurrences of elements such as <term> or <name> will often be a good departure point for an index.

The TEI schema provides a special purpose <index> tag which may be used to mark both the parts of the document which should be indexed, and how the indexing should be done. <index> (index entry) marks a location to be indexed for whatever purpose.

For example, the second paragraph of this section might include the following:

... TEI lite also provides a special purpose <gi> tag
<index>
  <term>indexing</term>
</index>

... TEI lite also provides a special purpose
<gi>index</gi> tag
<index>
  <term>indexing</term>
</index>

... which may be used ...
The `<index>` element can also be used to provide a form of interpretive or analytic information. For example, in a study of Ovid, it might be desired to record all the poet’s references to different figures, for comparative stylistic study. In the following lines of the *Metamorphoses*, such a study would record the poet’s references to Jupiter (as *deus*, *se*, and as the subject of *confiteor* [in inflectional form number 227]), to Jupiter-in-the-guis-of-a-bull (as *imago tauri fallacis* and the subject of *teneo*), and so on.

This need might be met using the `<note>` element discussed in section in 7. Notes, or with the `<interp>` element discussed in section 15. Interpretation and Analysis. Here we demonstrate how it might also be satisfied by using the `<index>` element.

We assume that the object is to generate more than one index: one for names of deities (called *dn*), another for onomastic references (called *on*), a third for pronominal references (called *pr*) and so forth. One way of achieving this might be as follows:

For each `<index>` element above, an entry will be generated in the appropriate index, using as headword the content of the `<term>` element it contains; the `<term>` elements nested within the secondary `<index>` element in each case provide a secondary keyword. The actual reference will be taken from the context in which the `<index>` element appears, i.e. in this case the identifier of the `<l>` element containing it.

---

4The analysis is taken, with permission, from Willard McCarty and Burton Wright, *An Analytical Onomasticon to the Metamorphoses of Ovid* (Princeton: Princeton University Press, forthcoming). Some simplifications have been undertaken.
16.4 Addresses

The `<address>` element is used to mark a postal address of any kind. It contains one or more `<addrLine>` elements, one for each line of the address.

`<address>` (address) contains a postal address, for example of a publisher, an organization, or an individual.

`<addrLine>` (address line) contains one line of a postal address.

Here is a simple example:

```xml
<address>
  <addrLine>Computer Center (M/C 135)</addrLine>
  <addrLine>1940 W. Taylor, Room 124</addrLine>
  <addrLine>Chicago, IL 60612-7352</addrLine>
  <addrLine>U.S.A.</addrLine>
</address>
```

The individual parts of an address may be further distinguished by using the `<name>` element discussed above (section 10.1. Names and Referring Strings).

```xml
<address>
  <addrLine>Computer Center (M/C 135)</addrLine>
  <addrLine>1940 W. Taylor, Room 124</addrLine>
  <addrLine>
    <name type="city">Chicago</name>, IL 60612-7352
  </addrLine>
  <addrLine>
    <name type="country">USA</name>
  </addrLine>
</address>
```

17 Character Sets, Diacritics, etc.

With the advent of XML and its adoption of Unicode as the required character set for all documents, most problems previously associated with the representation of the divers languages and writing systems of the world are greatly reduced. For those working with standard forms of the European languages in particular, almost no special action is needed: any XML editor should enable you to input accented letters or other non-ASCII characters directly, and they should be stored in the resulting file in a way which is transferable directly between different systems.

There are two important exceptions: the characters `&` and `<` may not be entered directly in an XML document, since they have a special significance as initiating markup. They must always be represented as entity references, like this: `&amp;` or `&lt;`. Other characters may also be represented by means of entity reference where necessary, for example to retain compatibility with a pre-Unicode processing system.

18 Front and Back Matter

18.1 Front Matter

For many purposes, particularly in older texts, the preliminary material such as title pages, prefatory epistles, etc., may provide very useful additional linguistic or social information. P5 provides a set of recommendations for distinguishing the textual elements most commonly encountered in front matter, which are summarized here.

18.1.1 Title Page

The start of a title page should be marked with the element `<titlePage>`. All text contained on the page should be transcribed and tagged with the appropriate element from the following list:
<titlePage> (title page) contains the title page of a text, appearing within the front or back matter.
<docTitle> (document title) contains the title of a document, including all its constituents, as given on a title page.
<titlePart> (title part) contains a subsection or division of the title of a work, as indicated on a title page.
<byline> (byline) contains the primary statement of responsibility given for a work on its title page or at the head or end of the work.
<docAuthor> (document author) contains the name of the author of the document, as given on the title page (often but not always contained in a byline).
<docDate> (document date) contains the date of a document, as given on a title page or in a dateline.
<docImprint> (document imprint) contains the imprint statement (place and date of publication, publisher name), as given (usually) at the foot of a title page.
<epigraph> (epigraph) contains a quotation, anonymous or attributed, appearing at the start or end of a section or on a title page.

Typeface distinctions should be marked with the *rend* attribute when necessary, as described above. Very detailed description of the letter spacing and sizing used in ornamental titles is not as yet provided for by the Guidelines. Changes of language should be marked by appropriate use of the *xml:lang* attribute or the *<foreign> element*, as necessary. Names of people, places, or organizations, may be tagged using the *<name> element* wherever they appear if no other more specific element is available.

Two example title pages follow:

```
<titlePage rend="Roman">
  <docTitle>
    <titlePart type="main"> PARADISE REGAIN'D. A POEM In IV <hi>BOOKS</hi>.</titlePart>
  </docTitle>
  <titlePart> To which is added <title>SAMSON AGONISTES</title>. </titlePart>
</titlePage>

<titlePage>
  <docTitle>
    <titlePart type="main"> Lives of the Queens of England, from the Norman Conquest; </titlePart>
    <titlePart type="sub"> with anecdotes of their courts. </titlePart>
  </docTitle>
  <titlePart> Now first published from Official Records and other authentic documents private as well as public. </titlePart>
</titlePage>
```
18.1 Front Matter

As elsewhere, the ref attribute may be used to link a name with a canonical definition of the entity being named. For example:

```xml
<byline>By <docAuthor>Agnes Strickland</docAuthor>
</byline>
<name ref="http://en.wikipedia.org/wiki/Agnes_Strickland">Agnes Strickland</name>
</docAuthor>
</byline>
```

18.1.2 Prefatory Matter

Major blocks of text within the front matter should be marked using `<div>` elements; the following suggested values for the type attribute may be used to distinguish various common types of prefatory matter:

- `preface` A foreword or preface addressed to the reader in which the author or publisher explains the content, purpose, or origin of the text
- `dedication` A formal offering or dedication of a text to one or more persons or institutions by the author.
- `abstract` A summary of the content of a text as continuous prose
- `ack` A formal declaration of acknowledgment by the author in which persons and institutions are thanked for their part in the creation of a text
- `contents` A table of contents, specifying the structure of a work and listing its constituents. The `<list>` element should be used to mark its structure.
- `frontispiece` A pictorial frontispiece, possibly including some text.

Where other kinds of prefatory matter are encountered, the encoder is at liberty to invent other values for the type attribute.

Like any text division, those in front matter may contain low level structural or non-structural elements as described elsewhere. They will generally begin with a heading or title of some kind which should be tagged using the `<head>` element. Epistles will contain the following additional elements:

- `<salute>` (salutation) contains a salutation or greeting prefixed to a foreword, dedicatory epistle, or other division of a text, or the salutation in the closing of a letter, preface, etc.
- `<signed>` (signature) contains the closing salutation, etc., appended to a foreword, dedicatory epistle, or other division of a text.
- `<byline>` (byline) contains the primary statement of responsibility given for a work on its title page or at the head or end of the work.
18.2 Back Matter

18.2.1 Structural Divisions of Back Matter

Because of variations in publishing practice, back matter can contain virtually any of the elements listed above for front matter, and the same elements should be used where this is so. Additionally, back matter may contain the following types of matter within the <back> element. Like the structural divisions of the body, these should be marked as <div> elements, and distinguished by the following suggested values of the type attribute:

appendix An ancillary self-contained section of a work, often providing additional but in some sense extra-canonical text.

glossary A list of terms associated with definition texts (‘glosses’): this should be encoded as a «list type=”gloss”» element

notes A section in which textual or other kinds of notes are gathered together.

bibliogr A list of bibliographic citations: this should be encoded as a «listBibl>

index Any form of pre-existing index to the work (An index may also be generated for a document by using the <index> element described above).
colophon  A statement appearing at the end of a book describing the conditions of its physical production.

19  The Electronic Title Page

Every TEI text has a header which provides information analogous to that provided by the title page of printed text. The header is introduced by the element `<teiHeader>` and has four major parts:

- `<fileDesc>` (file description) contains a full bibliographic description of an electronic file.
- `<encodingDesc>` (encoding description) documents the relationship between an electronic text and the source or sources from which it was derived.
- `<profileDesc>` (text-profile description) provides a detailed description of non-bibliographic aspects of a text, specifically the languages and sublanguages used, the situation in which it was produced, the participants and their setting.
- `<revisionDesc>` (revision description) summarizes the revision history for a file.

A corpus or collection of texts with many shared characteristics may have one header for the corpus and individual headers for each component of the corpus. In this case the type attribute indicates the type of header. `<teiHeader type="corpus">` introduces the header for corpus-level information.

Some of the header elements contain running prose which consists of one or more `<p>`s. Others are grouped:

- Elements whose names end in `Stmt` (for statement) usually enclose a group of elements recording some structured information.
- Elements whose names end in `Decl` (for declaration) enclose information about specific encoding practices.
- Elements whose names end in `Desc` (for description) contain a prose description.

19.1  The File Description

The `<fileDesc>` element is mandatory. It contains a full bibliographic description of the file with the following elements:

- `<titleStmt>` (title statement) groups information about the title of a work and those responsible for its content.
- `<editionStmt>` (edition statement) groups information relating to one edition of a text.
- `<extent>` (extent) describes the approximate size of a text stored on some carrier medium or of some other object, digital or non-digital, specified in any convenient units.
- `<publicationStmt>` (publication statement) groups information concerning the publication or distribution of an electronic or other text.
- `<seriesStmt>` (series statement) groups information about the series, if any, to which a publication belongs.
- `<notesStmt>` (notes statement) collects together any notes providing information about a text additional to that recorded in other parts of the bibliographic description.
- `<sourceDesc>` (source description) describes the source(s) from which an electronic text was derived or generated, typically a bibliographic description in the case of a digitized text, or a phrase such as "born digital" for a text which has no previous existence.

A minimal header has the following structure:
19.1.1 The Title Statement

The following elements can be used in the `<titleStmt>`:

- `<title>` (title) contains a title for any kind of work.
- `<author>` (author) in a bibliographic reference, contains the name(s) of an author, personal or corporate, of a work; for example in the same form as that provided by a recognized bibliographic name authority.
- `<sponsor>` (sponsor) specifies the name of a sponsoring organization or institution.
- `<funder>` (funding body) specifies the name of an individual, institution, or organization responsible for the funding of a project or text.
- `<principal>` (principal researcher) supplies the name of the principal researcher responsible for the creation of an electronic text.
- `<respStmt>` (statement of responsibility) supplies a statement of responsibility for the intellectual content of a text, edition, recording, or series, where the specialized elements for authors, editors, etc. do not suffice or do not apply. May also be used to encode information about individuals or organizations which have played a role in the production or distribution of a bibliographic work.

The title of a digital resource derived from a non-digital one will obviously be similar. However, it is important to distinguish the title of the computer file from that of the source text, for example:

```
<title of source]: a machine readable transcription [title of source]: electronic edition A machine readable version of: [title of source]
```

The `<respStmt>` element contains the following subcomponents:

- `<resp>` (responsibility) contains a phrase describing the nature of a person’s intellectual responsibility, or an organization’s role in the production or distribution of a work.
- `<name>` (name, proper noun) contains a proper noun or noun phrase.

Example:

```
<titleStmt>
<title>Two stories by Edgar Allen Poe: a machine readable transcription</title>
<author>Poe, Edgar Allen (1809-1849)</author>
<respStmt>
  <resp>compiled by</resp>
  <name>James D. Benson</name>
</respStmt>
</titleStmt>
```
19.1.2 The Edition Statement

The `<editionStmt>` groups information relating to one edition of the digital resource (where *edition* is used as elsewhere in bibliography), and may include the following elements:

- `<edition>` (edition) describes the particularities of one edition of a text.
- `<respStmt>` (statement of responsibility) supplies a statement of responsibility for the intellectual content of a text, edition, recording, or series, where the specialized elements for authors, editors, etc. do not suffice or do not apply. May also be used to encode information about individuals or organizations which have played a role in the production or distribution of a bibliographic work.

Example:

```
<editionStmt>
  <edition n="U2">Third draft, substantially revised <date>1987</date>
</edition>
</editionStmt>
```

Determining exactly what constitutes a new edition of an electronic text is left to the encoder.

19.1.3 The Extent Statement

The `<extent>` statement describes the approximate size of the digital resource.

Example:

```
<extent>4532 bytes</extent>
```

19.1.4 The Publication Statement

The `<publicationStmt>` is mandatory. It may contain a simple prose description or groups of the elements described below:

- `<publisher>` (publisher) provides the name of the organization responsible for the publication or distribution of a bibliographic item.
- `<distributor>` (distributor) supplies the name of a person or other agency responsible for the distribution of a text.
- `<authority>` (release authority) supplies the name of a person or other agency responsible for making a work available, other than a publisher or distributor.

At least one of these three elements must be present, unless the entire publication statement is in prose. The following elements may occur within them:

- `<pubPlace>` (publication place) contains the name of the place where a bibliographic item was published.
- `<address>` (address) contains a postal address, for example of a publisher, an organization, or an individual.
- `<idno>` (identifier) supplies any form of identifier used to identify some object, such as a bibliographic item, a person, a title, an organization, etc. in a standardized way.
- `<availability>` (availability) supplies information about the availability of a text, for example any restrictions on its use or distribution, its copyright status, any licence applying to it, etc.
- `<licence>` contains information about a licence or other legal agreement applicable to the text.
- `<date>` (date) contains a date in any format.

Example:
19.1.5 Series and Notes Statements

The `<seriesStmt>` element groups information about the series, if any, to which a publication belongs. It may contain `<title>`, `<idno>`, or `<respStmt>` elements.

The `<notesStmt>`, if used, contains one or more `<note>` elements which contain a note or annotation. Some information found in the notes area in conventional bibliography has been assigned specific elements in the TEI scheme.

19.1.6 The Source Description

The `<sourceDesc>` is a mandatory element which records details of the source or sources from which the computer file is derived. It may contain simple prose or a bibliographic citation, using one or more of the following elements:

- `<bibl>` (bibliographic citation) contains a loosely-structured bibliographic citation of which the sub-components may or may not be explicitly tagged.
- `<listBibl>` (citation list) contains a list of bibliographic citations of any kind.

Examples:

```xml
<sourceDesc>
  <bibl>
    The first folio of Shakespeare, prepared by Charlton Hinman (The Norton Facsimile, 1968)
  </bibl>
</sourceDesc>
```

```xml
<sourceDesc>
  <bibl>
    <author>CNN Network News</author>
    <title>News headlines</title>
    <date>12 Jun 1989</date>
  </bibl>
</sourceDesc>
```

19.2 The Encoding Description

The `<encodingDesc>` element specifies the methods and editorial principles which governed the transcription of the text. Its use is highly recommended. It may be prose description or may contain elements from the following list:

- `<projectDesc>` (project description) describes in detail the aim or purpose for which an electronic file was encoded, together with any other relevant information concerning the process by which it was assembled or collected.
- `<samplingDecl>` (sampling declaration) contains a prose description of the rationale and methods used in sampling texts in the creation of a corpus or collection.
19.2 The Encoding Description

<editorialDecl> (editorial practice declaration) provides details of editorial principles and practices applied during the encoding of a text.
<refsDecl> (references declaration) specifies how canonical references are constructed for this text.
<classDecl> (classification declarations) contains one or more taxonomies defining any classificatory codes used elsewhere in the text.

19.2.1 Project and Sampling Descriptions
Examples of <projectDesc> and <samplingDesc>:

<encodingDesc>
  <projectDesc>
    <p>Texts collected for use in the Claremont Shakespeare Clinic, June 1990.</p>
  </projectDesc>
</encodingDesc>

<encodingDesc>
  <samplingDecl>
    <p>Samples of 2000 words taken from the beginning of the text</p>
  </samplingDecl>
</encodingDesc>

19.2.2 Editorial Declarations
The <editorialDecl> contains a prose description of the practices used when encoding the text. Typically this description should cover such topics as the following, each of which may conveniently be given as a separate paragraph.

correction how and under what circumstances corrections have been made in the text.

normalization the extent to which the original source has been regularized or normalized.

quotation what has been done with quotation marks in the original – have they been retained or replaced by entity references, are opening and closing quotes distinguished, etc.

hyphenation what has been done with hyphens (especially end-of-line hyphens) in the original – have they been retained, replaced by entity references, etc.

segmentation how has the text has been segmented, for example into sentences, tone-units, graphemic strata, etc.

interpretation what analytic or interpretive information has been added to the text.

Example:

<editorialDecl>
  <p>The part of speech analysis applied throughout section 4 was added by hand and has not been checked.</p>
  <p>Errors in transcription controlled by using the WordPerfect spelling checker.</p>
  <p>All words converted to Modern American spelling using Webster’s 9th Collegiate dictionary.</p>
</editorialDecl>
19.2.3 Reference and Classification Declarations

The `<refsDecl>` element is used to document the way in which any standard referencing scheme built into the encoding works. In its simplest form, it consists of prose description.

Example:

```
<refsDecl>
    <p>The `<att>`n</att>` attribute on each `<gi>div</gi>` contains the canonical reference for each division in the form XX.yyy where XX is the book number in roman numeral and yyy is the section number in arabic.</p>
    <p>Milestone tags refer to the edition of 1830 as E30 and that of 1850 as E50.</p>
</refsDecl>
```

The `<classDecl>` element groups together definitions or sources for any descriptive classification schemes used by other parts of the header. At least one such scheme must be provided, encoded using the following elements:

- `<taxonomy>` (taxonomy) defines a typology either implicitly, by means of a bibliographic citation, or explicitly by a structured taxonomy.
- `<bibl>` (bibliographic citation) contains a loosely-structured bibliographic citation of which the sub-components may or may not be explicitly tagged.
- `<category>` (category) contains an individual descriptive category, possibly nested within a superordinate category, within a user-defined taxonomy.
- `<catDesc>` (category description) describes some category within a taxonomy or text typology, either in the form of a brief prose description or in terms of the situational parameters used by the TEI formal `<textDesc>`.

In the simplest case, the taxonomy may be defined by a bibliographic reference, as in the following example:

```
<classDecl>
    <taxonomy xml:id="LC-SH">
        <bibl>Library of Congress Subject Headings</bibl>
    </taxonomy>
</classDecl>
```

Alternatively, or in addition, the encoder may define a special purpose classification scheme, as in the following example:

```
<taxonomy xml:id="B">
    <bibl>Brown Corpus</bibl>
    <category xml:id="B.A">
        <catDesc>Press Reportage</catDesc>
    </category>
    <category xml:id="B.A1">
        <catDesc>Daily</catDesc>
    </category>
    <category xml:id="B.A2">
        <catDesc>Sunday</catDesc>
    </category>
    <category xml:id="B.A3">
        <catDesc>National</catDesc>
    </category>
</taxonomy>
```
Linkage between a particular text and a category within such a taxonomy is made by means of the `<catRef>` element within the `<textClass>` element, as described in the next section below.

### 19.3 The Profile Description

The `<profileDesc>` element enables information characterizing various descriptive aspects of a text to be recorded within a single framework. It has three optional components:

- `<creation>` (creation) contains information about the creation of a text.
- `<langUsage>` (language usage) describes the languages, sublanguages, registers, dialects, etc. represented within a text.
- `<textClass>` (text classification) groups information which describes the nature or topic of a text in terms of a standard classification scheme, thesaurus, etc.

The `<creation>` element is useful for documenting where a work was created, even though it may not have been published or recorded there.

Example:

```
<creation>
  <date when="1992-08">August 1992</date>
  <name type="place">Taos, New Mexico</name>
</creation>
```

The `<langUsage>` element is useful where a text contains many different languages. It may contain `<language>` elements to document each particular language used:

- `<language>` (language) characterizes a single language or sublanguage used within a text.

For example, a text containing predominantly text in French as spoken in Quebec, but also smaller amounts of British and Canadian English might be documented as follows:

```
<langUsage>
  <language ident="fr-CA" usage="60">Québécois</language>
  <language ident="en-CA" usage="20">Canadian business English</language>
</langUsage>
```
The \texttt{\textClass} element classifies a text. This may be done with reference to a classification system locally defined by means of the \texttt{\classDecl} element, or by reference to some externally defined established scheme such as the Universal Decimal Classification. Texts may also be classified using lists of keywords, which may themselves be drawn from locally or externally defined control lists. The following elements are used to supply such classifications:

\texttt{\classCode} (classification code) contains the classification code used for this text in some standard classification system.

\texttt{\catRef} (category reference) specifies one or more defined categories within some taxonomy or text typology.

\texttt{\keywords} (keywords) contains a list of keywords or phrases identifying the topic or nature of a text.

The simplest way of classifying a text is by means of the \texttt{\classCode} element. For example, a text with classification 410 in the Universal Decimal Classification might be documented as follows:

\begin{verbatim}
<\classCode scheme="http://www.udc.org">410</\classCode>
\end{verbatim}

When a classification scheme has been locally defined using the \texttt{\taxonomy} element discussed in the preceding subsection, the \texttt{\catRef} element should be used to reference it. To continue the earlier example, a work classified in the Brown Corpus as \texttt{Press reportage - Sunday} and also as \texttt{Religion} might be documented as follows:

\begin{verbatim}
<\catRef target="#B.A3 #B.D"/>
\end{verbatim}

The element \texttt{\keywords} contains a list of keywords or phrases identifying the topic or nature of a text. As usual, the attribute \texttt{scheme} identifies the source from which these terms are taken. For example, if the LC Subject Headings are used, following declaration of that classification system in a \texttt{\taxonomy} element as above:

\begin{verbatim}
<\textClass>
  <\keywords scheme="#LCSH">
    <\list>
      <\item>English literature -- History and criticism -- Data processing.</item>
      <\item>English literature -- History and criticism -- Theory etc.</item>
      <\item>English language -- Style -- Data processing.</item>
    </\list>
  </\keywords>
</\textClass>
\end{verbatim}

Multiple classifications may be supplied using any of the mechanisms described in this section.

19.4 The Revision Description

The \texttt{\revisionDesc} element provides a change log in which each change made to a text may be recorded. The log may be recorded as a sequence of \texttt{\change} elements each of which contains a brief description of the change. The attributes \texttt{when} and \texttt{who} may be used to identify when the change was carried out and the agency responsible for it.

Example:
In a production environment it will usually be found preferable to use some kind of automated system to track and record changes. Many such version control systems, as they are known, can also be configured to update the TEI Header of a file automatically.

```xml
<revisionDesc>
  <change when="1991-03-06" who="#EMB">File format updated</change>
  <change when="1990-05-25" who="#EMB">Stuart's corrections entered</change>
</revisionDesc>
```
A List of Elements Described

The TEI Lite schema is a pure subset of TEI P5. In the following list of elements and classes used, some information, notably the examples, derives from the canonical definition for the element in TEI P5 and may therefore refer to elements or attributes not provided by TEI Lite. Note however that only the elements listed here are available within the TEI Lite schema. These specifications also refer to many attributes which although available in TEI Lite are not discussed in this tutorial for lack of space.

A.1 Elements

<TEI> (TEI document) contains a single TEI-conformant document, combining a single TEI header with one or more members of the model.resource class. Multiple <TEI> elements may be combined within a <TEI> (or <teiCorpus>) element. [4. Default Text Structure 15.1. Varieties of Composite Text]

Module textstructure

Attributes att.global (@xml:id, @n, @xml:lang, @xml:space)
(att.global.rendition (@rend)) (att.global.linking (@corresp, @next, @prev))
(att.global.analytic (@ana)) (att.global.facs (@facs)) (att.global.responsibility (@cert, @resp)) (att.global.source (@source)) att.typed (@type, @subtype)

Member of model.describedResource

Contained by core: teiCorpus

textstructure: TEI

May contain header: teiHeader

textstructure: TEI text

Note This element is required. It is customary to specify the TEI namespace http://www.tei-c.org/ns/1.0 on it, using the xmlns attribute.

Example

<TEI version="3.3.0" xmlns="http://www.tei-c.org/ns/1.0">
  <teiHeader>
    <fileDesc>
      <titleStmt>
        <title>The shortest TEI Document Imaginable</title>
      </titleStmt>
      <publicationStmt>
        <p>First published as part of TEI P2, this is the P5 version using a name space.</p>
      </publicationStmt>
      <sourceDesc>
        <p>No source: this is an original work.</p>
      </sourceDesc>
    </fileDesc>
  </teiHeader>
  <text>
    <body>
      <p>This is about the shortest TEI document imaginable.</p>
    </body>
  </text>
</TEI>

Example
A LIST OF ELEMENTS DESCRIBED

<TEI version="2.9.1" xmlns="http://www.tei-c.org/ns/1.0">
<teiHeader>
<fileDesc>
<titleStmt>
<title>A TEI Document containing four page images</title>
</titleStmt>
<publicationStmt>
<p>Unpublished demonstration file.</p>
</publicationStmt>
<sourceDesc>
<p>No source: this is an original work.</p>
</sourceDesc>
</fileDesc>
</teiHeader>
<facsimile>
<graphic url="page1.png"/>
<graphic url="page2.png"/>
<graphic url="page3.png"/>
<graphic url="page4.png"/>
</facsimile>
</TEI>

Schematron <sch:ns prefix="tei" uri="http://www.tei-c.org/ns/1.0"/>
<sch:ns prefix="xs" uri="http://www.w3.org/2001/XMLSchema"/>

Schematron <sch:ns prefix="rng" uri="http://relaxng.org/ns/structure/1.0"/>

Content model

<content>
<sequence minOccurs="1" maxOccurs="1">
<elementRef key="teiHeader"/>
<sequence minOccurs="1" maxOccurs="1">
<alternate minOccurs="1" maxOccurs="1">
<sequence minOccurs="1" maxOccurs="1">
<classRef key="model.resource" minOccurs="1" maxOccurs="unbounded"/>
<elementRef key="TEI" minOccurs="0" maxOccurs="unbounded"/>
</sequence>
<elementRef key="TEI" minOccurs="1" maxOccurs="unbounded"/>
</alternate>
</sequence>
</content>

Schema Declaration

element TEI
{
   att.global.attributes,
   att.typed.attributes,
   ( teiHeader, ( ( model.resource+, TEI* ) | TEI+ ) )
}

<abbr>
(abbreviation) contains an abbreviation of any sort. [3.6.5. Abbreviations and Their Expansions]

Module core

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Attributes

\texttt{att.global} (@xml:id, @n, @xml:lang, @xml:space)
\texttt{(att.global.rendition (@rend))} \texttt{(att.global.linking (@corresp, @next, @prev))}
\texttt{(att.global.analytic (@ana))} \texttt{(att.global.facs (@facs))} \texttt{(att.global.responsibility (@cert, @resp))}
\texttt{(att.global.source (@source))} \texttt{att.typed (type, @subtype)}

\texttt{@type} \texttt{(type)} allows the encoder to classify the abbreviation according to some convenient typology.

\textit{Derived from} \texttt{att.typed}

\textit{Status} Optional

\textit{Datatype} \texttt{teidata.enumerated}

\textit{Sample values include: suspesion} (suspension) the abbreviation provides the first letter(s) of the word or phrase, omitting the remainder.

\textit{contraction} (contraction) the abbreviation omits some letter(s) in the middle.

\textit{brevigraph} the abbreviation comprises a special symbol or mark.

\textit{superscription} (superscription) the abbreviation includes writing above the line.

\textit{acronym} (acronym) the abbreviation comprises the initial letters of the words of a phrase.

\textit{title} (title) the abbreviation is for a title of address (Dr, Ms, Mr, …)

\textit{organization} (organization) the abbreviation is for the name of an organization.

\textit{geographic} (geographic) the abbreviation is for a geographic name.

\textit{Note} The \texttt{type} attribute is provided for the sake of those who wish to classify abbreviations at their point of occurrence; this may be useful in some circumstances, though usually the same abbreviation will have the same type in all occurrences. As the sample values make clear, abbreviations may be classified by the method used to construct them, the method of writing them, or the referent of the term abbreviated; the typology used is up to the encoder and should be carefully planned to meet the needs of the expected use.

For a typology of Middle English abbreviations, see 6.2.
A LIST OF ELEMENTS DESCRIBED

core: abbr add address choice cit corr date del emph expan foreign gap gloss graphic hi index lb mentioned milestone name note num prig pb ptr q ref reg rs sic soCalled term title unclear
figures: figure formula
header: idno
linking: anchor seg
tagdocs: att code gi ident val

document character data

Note If abbreviations are expanded silently, this practice should be documented in the <editorialDecl>, either with a <normalization> element or a <p>.

Example

<choice>
  <expan>North Atlantic Treaty Organization</expan>
  <abbr cert="low">NorATO</abbr>
  <abbr cert="high">NATO</abbr>
  <abbr cert="high" xml:lang="fr">OTAN</abbr>
</choice>

Example

<choice>
  <abbr>SPQR</abbr>
  <expan>senatus populusque romanorum</expan>
</choice>

Content model

```
<content>
  <macroRef key="macro.phraseSeq"/>
</content>
```

Schema Declaration

```
element abbr
{
  att.global.attributes,
  att.typed.attribute.subtype,
  attribute type { text }?,
  macro.phraseSeq
}
```

<add> (addition) contains letters, words, or phrases inserted in the source text by an author, scribe, or a previous annotator or corrector. [3.5.3. Additions, Deletions, and Omissions]

Module core

Attributes Attributes att.global (@xml:id, @n, @xml:lang, @xml:space)
  (att.global.rendition (@rend)) (att.global.linking (@corresp, @next, @prev))
  (att.global.analytic (@ana)) (att.global.facets (@facets)) (att.global.responsibility (@cert, @resp))
  (att.global.source (@source)) att.transcriptional (@status, @cause, @seq) (att.editLike (@evidence, @instant)) (att.written (@hand))
  att.placement (@place) att.typed (@type, @subtype) att.dimensions (@unit, @quantity, @extent, @precision, @scope)
  att.ranging (@atLeast, @atMost, @min, @max, @confidence)

Member of model.pPart.transcriptional
In a diplomatic edition attempting to represent an original source, the `<add>` element should not be used for additions to the current TEI electronic edition made by editors or encoders. In these cases, either the `<corr>` or `<supplied>` element are recommended.

In a TEI edition of a historical text with previous editorial emendations in which such additions or reconstructions are considered part of the source text, the use of `<add>` may be appropriate, dependent on the editorial philosophy of the project.

**Example**

The story I am going to relate is true as to its main facts, and as to the consequences `<add place="above">of these facts</add>` from which this tale takes its title.

**Content model**

```xml
<content>
  <macroRef key="macro.paraContent"/>
</content>
```

**Schema Declaration**

```xml
element add {
  att.global.attributes,
  att.transcriptional.attributes,
  att.placement.attributes,
  att.typed.attributes,
  att.dimensions.attributes,
  macro.paraContent}
```
<addrLine> (address line) contains one line of a postal address. 3.6.2. Addresses 2.2.4. Publication, Distribution, Licensing, etc. 3.12.2.4. Imprint, Size of a Document, and Reprint Information

Module core
Attributes Attributes att.global (@xml:id, @n, @xml:lang, @xml:space)
(att.global.rendition (@rend)) (att.global.linking (@corresp, @next, @prev)) (att.global.analytic (@ana)) (att.global.facs (@facs)) (att.global.responsibility (@cert, @resp)) (att.global.source (@source))

Member of model.addrPart

Contained by
core: address

May contain
analysis: interp interpGrp p e s w

core: abbr add address choice cit corr date del emph expn foreign gap gloss graphic hi index lb mentioned milestone name note num orig pb ptr q ref reg rs sic soCalled

figures: figure formula

header: idno

linking: anchor seg

tagdocs: att code gi ident val

character data

Note Addresses may be encoded either as a sequence of lines, or using any sequence of component elements from the model.addrPart class. Other non-postal forms of address, such as telephone numbers or email, should not be included within an <address> element directly but may be wrapped within an <addrLine> if they form part of the printed address in some source text.

Example

<address>
  <addrLine>Computing Center, MC 135</addrLine>
  <addrLine>P.O. Box 6998</addrLine>
  <addrLine>Chicago, IL</addrLine>
  <addrLine>60680 USA</addrLine>
</address>

Example

<addrLine>
  <ref target="tel:+1-201-555-0123">(201) 555 0123</ref>
</addrLine>

Content model

<content>
  <macroRef key="macro.phraseSeq"/>
</content>

Schema Declaration

element addrLine { att.global.attributes, macro.phraseSeq }
<address> contains a postal address, for example of a publisher, an
organization, or an individual. [3.6.2. Addresses 2.2.4. Publication, Distribution,
Licensing, etc. 3.12.2.4. Imprint, Size of a Document, and Reprint Information]

Module core
Attributes:
- att.global (@xml:id, @n, @xml:lang, @xml:space)
- att.global.rendition (@rend)
- att.global.linking (@corresp, @next, @prev)
- att.global.analytic (@ana)
- att.global.facets (@facets)
- att.global.responsibility (@cert, @resp)
- att.global.source (@source)

Member of:
- model.addressLike
- model.publicationStmtPart.detail

Contained by:
- analysis:
  - abbr add addrLine author bibl biblScope corr date del desc editor emph expan
  - foreign gloss head hi item label mentioned name note num orig p pubPlace
  - publisher q ref reg resp rs sic soCalled speaker stage term time title unclear
- figures:
  - cell figDesc
- header:
  - authority catDesc change classCode creation distributor edition extent funder
  - language licence principal publicationStmt sponsor
- linking:
  - seg
- tagdocs:
  - eg
- textstructure:
  - byline closer dateline docAuthor docDate docEdition docImprint
  - imprimatur opener salute signed titlePart trailer

May contain:
- analysis:
  - interp interpGrp
- core:
  - addrLine gap index lb milestone name note pb rs
- figures:
  - figure
- header:
  - idno
- linking:
  - anchor

Note: This element should be used for postal addresses only. Within it, the generic element
<addLine> may be used as an alternative to any of the more specialized elements
available from the model.addrPart class, such as <street>, <postCode> etc.

Example: Using just the elements defined by the core module, an address could be
represented as follows:

```
<address>
  <street>via Marsala 24</street>
  <postCode>40126</postCode>
  <name>Bologna</name>
  <name>Italy</name>
</address>
```

Example: When a schema includes the names and dates module more specific elements
such as country or settlement would be preferable over generic <name>:

```
<address>
  <street>via Marsala 24</street>
  <postCode>40126</postCode>
  <settlement>Bologna</settlement>
  <country>Italy</country>
</address>
```


A LIST OF ELEMENTS DESCRIBED

Example

Example

Content model

Schema Declaration

<anchor> (anchor point) attaches an identifier to a point within a text, whether or not it corresponds with a textual element. 

Module linking

Attributes

Member of model.milestoneLike

Contained by

analysis: w
<argument>

core: abbr add addrLine address author bibl biblScope cit corr date del editor emph expan foreign gloss head hi item l label lng listBibl mentioned name note num orig p pubPlace publisher q ref reg resp rs sic soCalled sp speaker stage term time title unclear

ingures: cell figure table

header: authority change classCode distributor edition extent funder language licence principal sponsor

linking: seg

tagdocs: eg

textstructure: argument back body byline closer dateline div docAuthor docDate docEdition docImprint docTitle epigraph front group imprimatur opener postscript salute signed text titlePage titlePart trailer

May contain Empty element

Note On this element, the global xml:id attribute must be supplied to specify an identifier for the point at which this element occurs within a document. The value used may be chosen freely provided that it is unique within the document and is a syntactically valid name. There is no requirement for values containing numbers to be in sequence.

Example

<s>The anchor is he<anchor xml:id="A234"/>re somewhere.</s>
<s>Help me find it.<ptr target="#A234"/></s>

Content model <content> <empty/></content>

Schema Declaration

```
<element anchor { att.global.attributes, att.typed.attributes, empty }
```

<argument> (argument) contains a formal list or prose description of the topics addressed by a subdivision of a text. 4.2. Elements Common to All Divisions 4.6. Title Pages

Module textstructure

Attributes att.global (@xml:id, @a, @xml:lang, @xml:space)
(att.global.rendition (@rend)) (att.global.linking (@corresp, @next, @prev))
(att.global.analytic (@ana)) (att.global.facs (@facs)) (att.global.responsibility (@cert, @resp)) (att.global.source (@source))

Member of model.divWrapper model.pLike.front model.titlePagePart

Contained by

core: lg list

figures: figure table

textstructure: back body div front group opener titlePage

May contain

analysis: interp interpGrp
core: bibl cit desc gap head index l label lg list listBibl milestone note p pb q sp stage

figures: figure table

linking: anchor

tagdocs: eg

Example
A LIST OF ELEMENTS DESCRIBED

<argument>
</argument>

Content model

<content>
  <sequence>
    <alternate minOccurs="0" maxOccurs="unbounded">
      <classRef key="model.global"/>
      <classRef key="model.headLike"/>
    </alternate>
    <sequence minOccurs="1" maxOccurs="unbounded">
      <classRef key="model.common"/>
      <classRef key="model.global" minOccurs="0" maxOccurs="unbounded"/>
    </sequence>
  </sequence>
</content>

Schema Declaration

element argument
{
  att.global.attributes,
  ( ( model.global | model.headLike )* , ( model.common, model.global* )* )+
}

<att> (attribute) contains the name of an attribute appearing within running text. [22.

Documentation Elements]

Module tagdocs

Attributes

att.global ( @xml:id, @n, @xml:lang, @xml:space )
att.global.rendition ( @rend )
att.global.linking ( @corresp, @next, @prev )
att.global.analytic ( @ana )
att.global.facs ( @facs )
att.global.responsibility ( @cert, @resp )
att.global.source ( @source )

@scheme (scheme) supplies an identifier for the scheme in which this name is defined.

Status Optional

Datatype teidata.enumerated

Sample values include: TEI (Text Encoding Initiative) this attribute is part of the TEI scheme.[Default]
DBK (Docbook) this attribute is part of the Docbook scheme.
XX (unknown) this attribute is part of an unknown scheme.
imaginary (imaginary) the attribute is from a non-existent scheme, for illustrative purposes only
XHTML (XHTML) the attribute is part of the XHTML language
**XML** (XML) the attribute is part of the XML language
**XI** (XI) the attribute is defined in the xInclude schema

Member of \texttt{model.phrase.xml}

Contained by

- \texttt{analysis}
- \texttt{core}
- \texttt{figures}
- \texttt{header}
- \texttt{linking}
- \texttt{tagdocs}
- \texttt{textstructure}

May contain \texttt{XSD Name}

\textit{Note} As an alternative to using the \textit{scheme} attribute a namespace prefix may be used.

Where both \textit{scheme} and a prefix are used, the prefix takes precedence.

\textbf{Example}

\begin{verbatim}
<p>The TEI defines several \texttt{soCalled} global attributes; their names include<br>
\texttt{xml:id}, \texttt{rend}, \texttt{xml:lang}, \texttt{n}, \texttt{xml:space}, <br>and \texttt{xml:base}; \texttt{type} is not amongst them.</p>
\end{verbatim}

\textit{Content model} \texttt{<content> <dataRef key="teidata.name"/> </content>}

\textit{Schema Declaration}

\begin{verbatim}
<element att { att.global.attributes, attribute scheme { text }?, teidata.name }
\end{verbatim}

\begin{verbatim}
<author> (author) in a bibliographic reference, contains the name(s) of an author, <br>personal or corporate, of a work; for example in the same form as that provided by a <br>recognized bibliographic name authority. \citep{3.12.2.2. Titles, Authors, and Editors} 2.2.1. The Title Statement
\end{verbatim}

\textbf{Module core}

Attributes \texttt{att.global} (@xml:id, @n, @xml:lang, @xml:space)

\begin{itemize}
  \item \texttt{att.global.rendition} (@rend)
  \item \texttt{att.global.linking} (@corresp, @next, @prev)
  \item \texttt{att.global.analytic} (@ana)
  \item \texttt{att.global.facs} (@facs)
  \item \texttt{att.global.responsibility} (@cert, @resp)
  \item \texttt{att.global.source} (@source)
  \item \texttt{att.naming} (@role, @nymRef)
  \item \texttt{att.canonical} (@key, @ref)
  \item \texttt{att.datable} (@period)
\end{itemize}

Member of \texttt{model.respLike}

Contained by

- \texttt{core}
- \texttt{header}

May contain

- \texttt{interp}
- \texttt{interpGrp}
- \texttt{pc}
- \texttt{s}
- \texttt{w}
Particularly where cataloguing is likely to be based on the content of the header, it is advisable to use a generally recognized name authority file to supply the content for this element. The attributes key or ref may also be used to reference canonical information about the author(s) intended from any appropriate authority, such as a library catalogue or online resource.

In the case of a broadcast, use this element for the name of the company or network responsible for making the broadcast.

Where an author is unknown or unspecified, this element may contain text such as Unknown or Anonymous. When the appropriate TEI modules are in use, it may also contain detailed tagging of the names used for people, organizations or places, in particular where multiple names are given.

Example

```xml
<author>British Broadcasting Corporation</author>
<author>La Fayette, Marie Madeleine Pioche de la Vergne, comtesse de (1634–1693)</author>
<author>Anonymous</author>
<author>Bill and Melinda Gates Foundation</author>
<author>
  <persName>Beaumont, Francis</persName> and
  <persName>John Fletcher</persName>
</author>
<author>
  <orgName key="BBC">British Broadcasting Corporation</orgName>: Radio 3 Network
</author>
```

Content model

```xml
<content>
  <macroRef key="macro.phraseSeq"/>
</content>
```

Schema Declaration

```xml
element author
{
  att.global.attributes,
  att.naming.attributes,
  att.datable.attributes,
  macro.phraseSeq}
```

<authority> (release authority) supplies the name of a person or other agency responsible for making a work available, other than a publisher or distributor. 2.2.4. Publication, Distribution, Licensing, etc.
<availability>

Module header

Attributes

\begin{itemize}
\item att.global (@xml:id, @n, @xml:lang, @xml:space)
\item att.global.rendition (@rend)
\item att.global.linking (@corresp, @next, @prev)
\item att.global.analytic (@ana)
\item att.global.facs (@facs)
\item att.global.responsibility (@cert, @resp)
\item att.global.source (@source)
\item att.canonical (@key, @ref)
\end{itemize}

Member of model.publicationStmtPart.agency

Contained by

header: publicationStmt

May contain

analysis: interp interpGrp

core: abbr address choice date emph expan foreign gap gloss hi index lb noted milestone name note num pb ptr ref rs soCalled term time title

figures: figure

header: idno

linking: anchor

tagdocs: att code gi ident val

character data

Example

\begin{verbatim}
<authority>John Smith</authority>
\end{verbatim}

Content model

\begin{verbatim}
<content>
  <macroRef key="macro.phraseSeq.limited"/>
</content>
\end{verbatim}

Schema Declaration

\begin{verbatim}
element authority
{   
  att.global.attributes,
  att.canonical.attributes,
  macro.phraseSeq.limited
}
\end{verbatim}

<availability> (availability) supplies information about the availability of a text, for example any restrictions on its use or distribution, its copyright status, any licence applying to it, etc. [2.2.4. Publication, Distribution, Licensing, etc.]

Module header

Attributes

\begin{itemize}
\item att.global (@xml:id, @n, @xml:lang, @xml:space)
\item att.global.rendition (@rend)
\item att.global.linking (@corresp, @next, @prev)
\item att.global.analytic (@ana)
\item att.global.facs (@facs)
\item att.global.responsibility (@cert, @resp)
\item att.global.source (@source)
\item att.canonical (@key, @ref)
\end{itemize}

@status (status) supplies a code identifying the current availability of the text.

Status Optional

Datatype teidata.enumerated

Legal values are: free (free) the text is freely available.
unknown (unknown) the status of the text is unknown.
restricted (restricted) the text is not freely available.
A LIST OF ELEMENTS DESCRIBED

Member of model.biblPart model.publicationStmtPart.detail

Contained by core: bibl
header: publicationStmt

May contain core: p
header: licence

Note A consistent format should be adopted

Example

```
<availability status="restricted">
  <p>Available for academic research purposes only.</p>
</availability>

<availability status="free">
  <p>In the public domain</p>
</availability>

<availability status="restricted">
  <p>Available under licence from the publishers.</p>
</availability>
```

Example

```
<availability>
  <licence target="http://opensource.org/licenses/MIT">
    <p>The MIT License applies to this document.</p>
    <p>Copyright (C) 2011 by The University of Victoria</p>
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  </licence>
</availability>
```

Content model

```
<content>
  <alternate minOccurs="1"
```
maxOccurs="unbounded">
<classRef key="model.availabilityPart"/>
<classRef key="model.pLike"/>
</alternate>
</content>

Schema Declaration

```
 Schema Declaration

element availability
{  
  att.global.attributes,  
  att.declarable.attributes,  
  attribute status { "free" | "unknown" | "restricted" }?,  
  ( model.availabilityPart | model.pLike )+
}
```

<back> (back matter) contains any appendixes, etc. following the main part of a text.


Module textstructure

Attributes

att.global (@xml:id, @n, @xml:lang, @xml:space)
( att.global.rendition (@rend) )
( att.global.linking (@corresp, @next, @prev) )
( att.global.analytic (@ana) )
( att.global.facs (@facs) )
( att.global.responsibility (@cert, @resp) )
( att.global.source (@source) )
att.declaring (@decls)

Contained by

textstructure: text

May contain

analysis: interp interpGrp
core: divGen gap head index lb list listBibl milestone note p pb
figures: figure table
linking: anchor

textstructure: argument byline closer dateline div docAuthor docDate docEdition docImprint docTitle epigraph postscript signed titlePage titlePart trailer

Note Because cultural conventions differ as to which elements are grouped as back matter and which as front matter, the content models for the <back> and <front> elements are identical.

Example

```
<back>
  <div type="appendix">
    <head>The Golden Dream or, the Ingenuous Confession</head>
    <p>TO shew the Depravity of human Nature, and how apt the Mind is to be
    misled by Trinkets
    and false Appearances, Mrs. Two-Shoes does acknowledge, that after
    she became rich, she
    had like to have been, too fond of Money
    <!-- .... -->
    </p>
  </div>
  <!-- ... -->
  <div type="epistle">
    <head>A letter from the Printer, which he desires may be inserted</head>
    <salute>Sir.</salute>
  </div>
```

69
I have done with your Copy, so you may return it to the Vatican, if you please;

</p>
</div>
<div type="advert">
<head>The Books usually read by the Scholars of Mrs Two-Shoes are these and are sold at Mr Newbery's at the Bible and Sun in St Paul's Church-yard.</head>
</div>
<div type="advert">
<head>By the KING's Royal Patent, Are sold by J. NEWBERY, at the Bible and Sun in St. Paul's Church-Yard.</head>
</div>
Schema Declaration

```xml
<sequence minOccurs="0">
  <classRef key="model.divBottomPart"/>
  <alternate minOccurs="0" maxOccurs="unbounded">
    <classRef key="model.divBottomPart"/>
    <classRef key="model.global"/>
  </alternate>
</sequence>
</content>
```

(bibliographic citation) contains a loosely-structured bibliographic citation of which the sub-components may or may not be explicitly tagged. [3.12.1. Methods of Encoding Bibliographic References and Lists of References 2.2.7. The Source Description 15.3.2. Declariable Elements]

Module core

Attributes
- `att.global` (@xml:id, @a, @xml:lang, @xml:space)
- `att.global.rendition` (@rend)
- `att.global.linking` (@corresp, @next, @prev)
- `att.global.analytic` (@ana)
- `att.global.facs` (@facs)
- `att.global.responsibility` (@cert, @resp)
- `att.global.source` (@source)
- `att.declarable` (@default)
- `att.typed` (@type, @subtype)
- `att.sortable` (@sortKey)
- `att.docStatus` (@status)

Member of [model.biblLike, model.biblPart]

Containing elements:
- `add`, `bib`, `cit`, `corr`, `del`, `desc`, `emph`, `head`, `hi`, `item`, `listBibl`, `note`, `orig`, `p`, `q`, `ref`, `reg`, `relatedItem`, `sic`, `stage`, `title`, `unclear`

Containing figures:
- `cell`, `figDesc`, `figure`

Containing header:
- `change`, `licence`, `sourceDesc`, `taxonomy`

Containing linking:
- `seg`

Containing textstructure:
- `argument`, `body`, `div`, `docEdition`, `epigraph`, `imprimatur`, `postscript`, `salute`, `signed`, `titlePart`, `trailer`
A LIST OF ELEMENTS DESCRIBED

May contain
analysis: interp interpGrp pc s w
core: abbr add address author bibl biblScope choice corr date del editor emph expan foreign gap gloss hi index lb mentioned milestone name note num orig pb ptr pubPlace publisher q ref reg relatedItem respStmt rs sic soCalled term time title unclear
figures: figure
header: availability distributor edition extent funder idno principal sponsor
linking: anchor seg
tagdocs: code ident
character data

Note Contains phrase-level elements, together with any combination of elements from the model.biblPart class

Example

<bibl>Blain, Clements and Grundy: Feminist Companion to Literature in English (Yale, 1990)</bibl>

Example

<bibl>
</bibl>

Example

<bibl type="article" subtype="book_chapter" xml:id="carlin_2003">
<author>
 <name>
  <surname>Carlin</surname>
  <forename>Claire</forename>
 </name>
</author>, <title level="a">The Staging of Impotence : France’s last congrès</title> dans <bibl type="monogr">
<title level="m">Theatrum mundi : studies in honor of Ronald W. Tobin</title>, éd. <editor>
 <name>
  <forename>Claire</forename>
  <surname>Carlin</surname>
 </name>
</editor> et <editor>
 <name>
  <forename>Kathleen</forename>
  <surname>Wine</surname>
 </name>
</editor>, <pubPlace>Charlottesville, Va.</pubPlace>, <publisher>Rookwood Press</publisher>, <date when="2003">2003</date>.
</bibl>
<biblScope>

Content model

```xml
<content>
  <alternate minOccurs="0" maxOccurs="unbounded">
    <textNode/>
    <classRef key="model.gLike"/>
    <classRef key="model.highlighted"/>
    <classRef key="model.pPart.data"/>
    <classRef key="model.pPart.edit"/>
    <classRef key="model.segLike"/>
    <classRef key="model.ptrLike"/>
    <classRef key="model.biblPart"/>
    <classRef key="model.global"/>
  </alternate>
</content>
```

Schema Declaration

```xml
element bibl
{
  att.global.attributes,
  att.declarable.attributes,
  att.typed.attributes,
  att.sortable.attributes,
  att.docStatus.attributes,
  
  (text
   | model.gLike | model.highlighted | model.pPart.data | model.pPart.edit | model.segLike | model.ptrLike | model.biblPart | model.global)
}
```

<biblScope> (scope of bibliographic reference) defines the scope of a bibliographic reference, for example as a list of page numbers, or a named subdivision of a larger work. [3.12.2.5. Scopes and Ranges in Bibliographic Citations]

Module core

Attributes Attributes att.global ( @xml:id, @n, @xml:lang, @xml:space)
  (att.global.rendition ( @rend ))
  (att.global.linking ( @corresp, @next, @prev ))
  (att.global.analytic ( @ana ))
  (att.global.facs ( @facs ))
  (att.global.responsibility ( @cert, @resp ))
  (att.global.source ( @source ))
  att.citing ( @unit, @from, @to )

Member of model.imprintPart

Contained by

core: bibl

header: seriesStmt

May contain

analysis: interp interpGrp pc s w
core: abbr add address choice cit corr date del emph expan foreign gap gloss graphic hi
index lb mentioned milestone name note num orig pb ptr q ref reg rs sic soCalled
term time title unclear

figures: figure formula
A LIST OF ELEMENTS DESCRIBED

header: idno
linking: anchor seg
tagdocs: att code gi ident val

character data

Note When a single page is being cited, use the from and to attributes with an identical value. When no clear endpoint is provided, the from attribute may be used without to; for example a citation such as p. 3ff might be encoded <biblScopefrom="3">p. 3ff</biblScope>.

It is now considered good practice to supply this element as a sibling (rather than a child) of <imprint>, since it supplies information which does not constitute part of the imprint.

Example

<biblScope>pp 12–34</biblScope>
<biblScope unit="page" from="12" to="34"/>
<biblScope unit="volume">II</biblScope>
<biblScope unit="page">12</biblScope>

Content model

<content>
<macroRef key="macro.phraseSeq"/>
</content>

Schema Declaration

element biblScope
{
  att.global.attributes,
  att.citing.attributes,
  macro.phraseSeq}

<body> (text body) contains the whole body of a single unitary text, excluding any front or back matter. [4. Default Text Structure]

Module textstructure

Attributes Attributes att.global (@xml:id, @n, @xml:lang, @xml:space)
  (atts.global.rendition (@rend)) (atts.global.lenking (@corresp, @next, @prev))
  (atts.global.analytic (@ana)) (atts.global.facs (@facs)) (atts.global.responsibility)
  (@cert, @resp)) (atts.global.source (@source)) att.declaring (@decls)

Contained by
  textstructure: text

May contain
  analysis: interp interpGrp
  core: bibl cit desc divGen gap head index label lb lg list listBibl milestone note p pb q
  sp stage
  figures: figure table
  linking: anchor
  tagdocs: eg
  textstructure: argument byline closer dateline div docAuthor docDate epigraph opener
  postscript salute signed trailer

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Example

Nu scylun hergan hefaenricaes uard
metudæs maecti end his modgidanc
uerc uuldurfadur sue he uundra gihuaes
eci dryctin or astelida
he aerist scop aelda barnum
heben til hrofe haleg scepen.
tha middungeard moncynnæs uard
eci dryctin æfter tiadæ
firum foldu frea allmectig
primo cantauit Cædmon istud carmen.

Content model

```
<content>
  <sequence minOccurs="0" maxOccurs="unbounded">
    <classRef key="model.global"/>
  </sequence>
  <alternate minOccurs="0" maxOccurs="unbounded">
    <classRef key="model.divTop"/>
    <classRef key="model.global"/>
  </alternate>
  <sequence minOccurs="0" maxOccurs="unbounded">
    <classRef key="model.divGenLike"/>
    <classRef key="model.global"/>
  </alternate>
  <sequence minOccurs="1" maxOccurs="unbounded">
    <classRef key="model.divLike"/>
    <classRef key="model.global"/>
  </alternate>
  <sequence minOccurs="1" maxOccurs="unbounded">
    <classRef key="model.div1Like"/>
    <classRef key="model.global"/>
  </alternate>
  <sequence minOccurs="0" maxOccurs="unbounded">
    <classRef key="model.common"/>
  </sequence>
</content>
```
A LIST OF ELEMENTS DESCRIBED

```
<alternate minOccurs="0">
  <sequence minOccurs="1" maxOccurs="unbounded">
    <classRef key="model.divLike"/>
    <alternate minOccurs="0" maxOccurs="unbounded">
      <classRef key="model.global"/>
      <classRef key="model.divGenLike"/>
    </alternate>
  </sequence>
</alternate>

<sequence minOccurs="1" maxOccurs="unbounded">
  <classRef key="model.div1Like"/>
  <alternate minOccurs="0" maxOccurs="unbounded">
    <classRef key="model.global"/>
    <classRef key="model.divGenLike"/>
  </alternate>
</sequence>
</alternate>

<sequence minOccurs="0" maxOccurs="unbounded">
  <classRef key="model.divBottom"/>
  <classRef key="model.global" minOccurs="0" maxOccurs="unbounded"/>
</sequence>
</sequence>
</content>

Schema Declaration

element body
{
  att.global.attributes,
  att.declaring.attributes,
  (model.global*,
   (model.divTop, (model.global | model.divTop)* )?,
   (model.divLike, (model.global | model.divGenLike)* )?,
   (model.divLike, (model.global | model.divGenLike)* )+
   | (model.div1Like, (model.global | model.divGenLike)* )+
   | (model.common, model.global* )+,
   (model.divLike, (model.global | model.divGenLike)* )+
   | (model.divLike, (model.global | model.divGenLike)* )+
   | (model.divBottom, model.global*)
}
Module textstructure

Attributes Attributes att.global (@xml:id, @n, @xml:lang, @xml:space)
  (att.global.rendition (@rend)) (att.global.linking (@corresp, @next, @prev))
  (att.global.analytic (@ana)) (att.global.facs (@facs)) (att.global.responsibility
  (@cert, @resp)) (att.global.source (@source))

Member of model.divWrapper model.pLike.front model.titlePagePart

Contained by
core: lg list
figures: figure table
textstructure: back body div front group opener titlePage

May contain
analysis: interp interpGrp pc s w
core: abbr add address choice corr date delim emph expand foreign gap gloss graphic hi
index lb mentioned milestone name note num orig pb ptr q ref reg rs sic soCalled
term time title unclear
figures: figure formula
header: idno
linking: anchor seg
tagdocs: att code gi ident val
textstructure: docAuthor

character data

Note The byline on a title page may include either the name or a description for the
document’s author. Where the name is included, it may optionally be tagged using
the <docAuthor> element.

Example

<byline>Written by a CITIZEN who continued all the
while in London. Never made publick before.</byline>

Example

<byline>Written from her own MEMORANDUMS</byline>

Example

<byline>By George Jones, Political Editor, in Washington</byline>

Example

<byline>BY
<docAuthor>THOMAS PHILIPOTT, </docAuthor>
Master of Arts,
(Sometimes)
Of Clare-Hall in Cambridge.</byline>

Content model

<content>
<alternate minOccurs="0" maxOccurs="unbounded">
<textNode/>
<classRef key="model.gLike"/>
<classRef key="model.phrase"/>
<elementRef key="docAuthor"/>
</alternate>
</content>
A LIST OF ELEMENTS DESCRIBED

Schema Declaration

element byline
{
    att.global.attributes,
    ( text | model.gLike | model.phrase | docAuthor | model.global )*
}

<catDesc> (category description) describes some category within a taxonomy or text
typology, either in the form of a brief prose description or in terms of the situational
parameters used by the TEI formal <textDesc>. [2.3.7. The Classification
Declaration]

Module header

Attributes:
att.global (@xml:id, @n, @xml:lang, @xml:space)
att.global.rendition (@rend)) (att.global.linking (@corresp, @next, @prev))
att.global.analytic (@ana)) (att.global.facs (@facs)) (att.global.responsibility
(@cert, @resp)) (att.global.source (@source)) att.canonical (@key, @ref)

Contained by
header: category

May contain
core: abbr address choice date emph expan foreign gloss hi mentioned name num ptr q
refs soCalled term time title

header: idno
tagdocs: att code gi ident val

character data

Example

<catDesc>Prose reportage</catDesc>

Example

<catDesc>
<textDesc n="novel">
<channel mode="w">print; part issues</channel>
<constitution type="single"/>
<derivation type="original"/>
<domain type="art"/>
<factuality type="fiction"/>
<interaction type="none"/>
<preparedness type="prepared"/>
<purpose type="entertain" degree="high"/>
<purpose type="inform" degree="medium"/>
</textDesc>
</catDesc>

Content model

<content>
<alternate minOccurs="0"
<catRef>

maxOccurs="unbounded">
<textNode/>
<classRef key="model.limitedPhrase"/>
<classRef key="model.catDescPart"/>
</alternate>
</content>

Schema Declaration

```
<catRef>
  (category reference) specifies one or more defined categories within some
taxonomy or text typology. [2.4.3. The Text Classification]

Module header
Attributes Attributes  att.global (@xml:id, @n, @xml:lang, @xml:space)
  (att.global.rendition (@rend)) (att.global.linking (@corresp, @next, @prev))
  (att.global.analytic (@ana)) (att.global.facs (@facs)) (att.global.responsibility (@cert,
  @resp)) (att.global.source (@source)) att.pointing (@targetLang, @target, @evaluate)
  @scheme identifies the classification scheme within which the set of categories
  concerned is defined, for example by a <taxonomy> element, or by some
  other resource.
  Status Optional
  Datatype teidata.pointer

Contained by: textClass
May contain Empty element

Note The scheme attribute needs to be supplied only if more than one taxonomy has been
declared.

Example

```
<catRef scheme="#myTopics"
  target="#news prov sales2"/>
<!-- elsewhere -->
<taxonomy xml:id="#myTopics">
  <category xml:id="news">
    <catDesc>Newspapers</catDesc>
  </category>
  <category xml:id="prov">
    <catDesc>Provincial</catDesc>
  </category>
  <category xml:id="sales2">
    <catDesc>Low to average annual sales</catDesc>
  </category>
</taxonomy>
```

Content model <content> <empty/></content>

Schema Declaration
A LIST OF ELEMENTS DESCRIBED

```
<category> (category) contains an individual descriptive category, possibly nested within a superordinate category, within a user-defined taxonomy. [2.3.7. The Classification Declaration]
```

**Module header**

**Attributes**

- `att.global.attributes` (`@xml:id`, `@n`, `@xml:lang`, `@xml:space`)
- `att.global.rendition` (`@rend`) (att.global.linking (`@corresp`, `@next`, `@prev`))
- `att.global.analytic` (`@ana`)
- `att.global.facs` (`@facs`)
- `att.global.responsibility` (`@cert`, `@resp`)
- `att.global.source` (`@source`)

**Contained by**

- header: `category` `taxonomy`

**May contain**

- `desc` `gloss`

**Example**

```
<category xml:id="b1">
  <catDesc>Prose reportage</catDesc>
</category>
```

**Example**

```
<category xml:id="b2">
  <catDesc>Prose</catDesc>
</category>
```

```
<category xml:id="b11">
  <catDesc>journalism</catDesc>
</category>
```

```
<category xml:id="b12">
  <catDesc>fiction</catDesc>
</category>
```

**Example**

```
<category xml:id="LIT">
  <catDesc xml:lang="pl">literatura piękna</catDesc>
  <catDesc xml:lang="en">fiction</catDesc>
</category>
```

```
<category xml:id="LPROSE">
  <catDesc xml:lang="pl">proza</catDesc>
  <catDesc xml:lang="en">prose</catDesc>
</category>
```

```
<category xml:id="LPOETRY">
  <catDesc xml:lang="pl">poezja</catDesc>
  <catDesc xml:lang="en">poetry</catDesc>
</category>
```

```
<category xml:id="LDRAMA">
  <catDesc xml:lang="pl">dramat</catDesc>
</category>
```
<catDesc xml:lang="en">drama</catDesc>
</category>
</category>

Content model

```xml
<content>
  <sequence>
    <alternate>
      <elementRef key="catDesc" minOccurs="1" maxOccurs="unbounded"/>
      <alternate minOccurs="0" maxOccurs="unbounded">
        <classRef key="model.descLike"/>
        <elementRef key="equiv"/>
        <elementRef key="gloss"/>
      </alternate>
    </alternate>
    <elementRef key="category" minOccurs="0" maxOccurs="unbounded"/>
  </sequence>
</content>
```

Schema Declaration

```xml
element category
{
  att.global.attributes,
  ( ( catDesc+ | ( model.descLike | equiv | gloss )* ), category* )
}
```

[cell] (cell) contains one cell of a table. 14.1.1. TEI Tables

Module figures

Attributes

- att.global (@xml:id, @n, @xml:lang, @xml:space)
- (att.global.rendition (@rend)) (att.global.linking (@corresp, @next, @prev))
- (att.global.analytic (@ana)) (att.global.facs (@facs)) (att.global.responsibility (@cert, @resp)) (att.global.source (@source)) att.tableDecoration (@role, @rows, @cols)

Contained by

- figures: row

May contain

- analysis: interp interpGrp pc sp w
- core: abbr add address bibl choice cit corr corr date del desc emph expan foreign gap gloss graphic hi index label lb lg listBibl mentioned milestone name note num orig p pb ptr q ref reg rs sic soCalled sp stage term time title unclear
- figures: figure formula table
- header: idno
- linking: anchor seg
- tagdocs: att code eg gi ident val

character data

Example
A LIST OF ELEMENTS DESCRIBED

Content model

```xml
<content>
  <macroRef key="macro.specialPara"/>
</content>
```

Schema Declaration

```xml
element cell
{
  att.global.attributes,
  att.tableDecoration.attributes,
  macro.specialPara
}
```

<change> (change) documents a change or set of changes made during the production of a source document, or during the revision of an electronic file. [2.6. The Revision Description 2.4.1. Creation 11.7. Identifying Changes and Revisions]

Module header
Attributes Attributes att.ascribed (@who) att.databindable (@period) (att.databindable.w3c (when)) att.docStatus (@status) att.global (@xml:id, @n, @xml:lang, @xml:space) (att.global.rendition (@rend)) (att.global.linking (@corresp, @next, @prev)) (att.global.analytic (@ana)) (att.global.facets (@facets)) (att.global.responsibility (@cert, @resp)) (att.global.source (@source)) att.typed (@type, @subtype)

@target (target) points to one or more elements that belong to this change.
Status Optional
Datatype 1–∞ occurrences of teidata.pointer separated by whitespace

Contains <header> revisionDesc
May contain analysis: interp interpGrp pc s w
core: abbr add address bibl choice cit corr date del desc emph expan foreign gap gloss graphic hi index i label lb lg list listBibl mentioned milestone name note num orig p pb ptr q rel reg rs sic soCalled sp stage term time title unclear
figures: figure formula table
header: idno
linking: anchor seg
tagdocs: att code eg gi ident val
character data

Note The who attribute may be used to point to any other element, but will typically specify a <respStmt> or <person> element elsewhere in the header, identifying the person responsible for the change and their role in making it.
It is recommended that changes be recorded with the most recent first. The status attribute may be used to indicate the status of a document following the change documented.

Example

```xml
<titleStmt>
  <title>... </title>
  <editor xml:id="LDB">Lou Burnard</editor>
  <respStmt xml:id="BZ">
    <responsibility>copy editing</responsibility>
    <name>Brett Zamir</name>
  </respStmt>
</titleStmt>

<revisionDesc status="published">
  <change who="#BZ" when="2008-02-02" status="public">Finished chapter 23</change>
  <change who="#BZ" when="2008-01-02" status="draft">Finished chapter 2</change>
  <change n="P2.2" when="1991-12-21" who="#LDB">Added examples to section 3</change>
  <change when="1991-11-11" who="#MSM">Deleted chapter 10</change>
</revisionDesc>
```

Example

```xml
<profileDesc>
  <creation>
    <listChange>
      <change xml:id="DRAFT1">First draft in pencil</change>
      <change xml:id="DRAFT2" notBefore="1880-12-09">First revision, mostly using green ink</change>
      <change xml:id="DRAFT3" notBefore="1881-02-13">Final corrections as supplied to printer.</change>
    </listChange>
  </creation>
</profileDesc>
```

Content model

```xml
<content>
  <macroRef key="macro.specialPara"/>
</content>
```

Schema Declaration

```xml
element change
{
  att.ascribed.attributes,
  att.datable.attributes,
  att.docStatus.attributes,
  att.global.attributes,
  att.typed.attributes,
  attribute target { list { + } },
  macro.specialPara}
```
A LIST OF ELEMENTS DESCRIBED

<choice> (choice) groups a number of alternative encodings for the same point in a text.

Module core
Attributes Attributes att.global (@xml:id, @n, @xml:lang, @xml:space)
(att.global.rendition (@rend)) (att.global.linking (@corresp, @next, @prev))
(att.global.analytic (@ana)) (att.global.facs (@facs)) (att.global.responsibility
(@cert, @resp)) (att.global.source (@source))

Member of model.pPart.editorial

Contained by

analysis: pcs w

core: abbr add addrLine author bibl biblScope choice corr date del desc editor emph
expan foreign gloss head hi item i label mentioned name note num orig p pubPlace
publisher q ref resp rs sic soCalled speaker stage term time title unclear

figures: cell figDesc

header: authority catDesc change classCode creation distributor edition extent funder
language licence principal sponsor

linking: seg
tagdocs: eg
textstructure: byline closer dateline docAuthor docDate docEdition docImprint
imprimatur opener salute signed titlePart trailer

May contain

core: abbr choice corr expan orig reg sic unclear

linking: seg

Note Because the children of a <choice> element all represent alternative ways of encoding the same sequence, it is natural to think of them as mutually exclusive. However, there may be cases where a full representation of a text requires the alternative encodings to be considered as parallel.

Note also that <choice> elements may self-nest.

Where the purpose of an encoding is to record multiple witnesses of a single work, rather than to identify multiple possible encoding decisions at a given point, the <app> element and associated elements discussed in section 12.1. The Apparatus Entry, Readings, and Witnesses should be preferred.

Example An American encoding of Gulliver’s Travels which retains the British spelling but also provides a version regularized to American spelling might be encoded as follows.

<p>Lastly, that, upon his solemn oath to observe all the above articles, the said man-mountain shall have a daily allowance of meat and drink sufficient for the support of <choice>
<corr>1724</corr>
<sic>1724</sic></choice>
</corr>
</choice> of our subjects,
with free access to our royal person, and other marks of our favor
<reg>favor</reg>
</choice>.</p>

Content model

<content>
<alternate minOccurs="2" maxOccurs="unbounded">
<classRef key="model.choicePart"/>
</content>
<cit>
  <elementRef key="choice"/>
</alternate>
</content>

Schema Declaration

```
element choice { att.global.attributes, ( model.choicePart | choice )+ }
```

(cited quotation) contains a quotation from some other document, together with a bibliographic reference to its source. In a dictionary it may contain an example text with at least one occurrence of the word form, used in the sense being described, or a translation of the headword, or an example. [3.3.3. Quotation 4.3.1. Grouped Texts 9.3.5.1. Examples]

Module core

Attributes

- `att.global` (@xml:id, @n, @xml:lang, @xml:space)
- `att.global.rendition` (@rend)
- `att.global.linking` (@corresp, @next, @prev)
- `att.global.analytic` (@ana)
- `att.global.facsimile` (@facs)
- `att.global.responsibility` (@cert, @resp)
- `att.global.source` (@source)
- `att.typed` (@type, @subtype)

Member of model.quoteLike

Contained by

- analysis: 
  - `abbr` `add` `addrLine` `author` `biblScope` `cit` `corr` `del` `desc` `editor` `emph` `expan` `foreign` `gloss` `head` `hi` `item` `label` `mentioned` `name` `note` `num` `orig` `p` `pubPlace` `publisher` `q` `ref` `reg` `rs` `sic` `soCalled` `sp` `speaker` `stage` `term` `title` `unclear`
- figures: `cell` `figDesc` `figure`
- header: `change` `distributor` `edition` `extent` `licence`
- linking: `seg`
- tagdocs: `eg`
- textstructure: `argument` `body` `div` `docAuthor` `docDate` `docEdition` `epigraph` `imprimatur` `postscript` `salute` `signed` `titlePart` `trailer`

May contain

- analysis: `interp` `interpGrp` `pc`
- core: `bibl` `cit` `gap` `graphic` `index` `lb` `listBibl` `milestone` `note` `pb` `ptr` `q` `ref`
- figures: `figure` `formula`
- linking: `anchor`
- tagdocs: `eg`

Example

```
<cit>
  <q>and the breath of the whale is frequently attended with such an insupportable smell, as to bring on disorder of the brain.</q>
<bib>Ulloa's South America</bib>
</cit>
```

Content model

```
<content>
  <alternate minOccurs="1"/>
```
A LIST OF ELEMENTS DESCRIBED

maxOccurs="unbounded">
<classRef key="model.biblLike"/>
<classRef key="model.egLike"/>
<classRef key="model.entryPart"/>
<classRef key="model.global"/>
<classRef key="model.graphicLike"/>
<classRef key="model.ptrLike"/>
<classRef key="model.attributable"/>
<elementRef key="pc"/>
<elementRef key="q"/>
</alternate>
</content>

Schema Declaration

element cit
{
    att.global.attributes,
    att.typed.attributes,
    {
        model.biblLike | model.egLike | model.entryPart | model.global | model.graphicLike | model.ptrLike | model.attributable | pc | q
    }
}

<classCode> (classification code) contains the classification code used for this text in some standard classification system. [2.4.3. The Text Classification]

Module header
Attributes
att.global (@xml:id, @n, @xml:lang, @xml:space)
(att.global.rendition (@rend)) (att.global.linking (@corresp, @next, @prev))
(att.global.analytic (@ana)) (att.global.facs (@facs))
(att.global.responsibility (@cert, @resp)) (att.global.source (@source))

@scheme identifies the classification system in use, as defined by, e.g. a
<taxonomy> element, or some other resource.
Status Required
Datatype teidata.pointer

Contained by: textClass
May contain: interp interpGrp
Core: abbr address choice date emph expant foreign gap gloss hi index lb mentioned
milestone name note num pb ptr q ref rs soCalled term time title

figures: figure
header: idno
linking: anchor
tagdocs: att code gi ident val
character data
Example

<classCode scheme="http://www.udc.org">410</classCode>

Content model
Schema Declaration

element classCode
{
    att.global.attributes,
    attribute scheme { text },
    macro.phraseSeq.limited
}

(classification declarations) contains one or more taxonomies defining any
classificatory codes used elsewhere in the text. [2.3.7. The Classification Declaration]

Module header
Attributes
att.global (@xml:id, @n, @xml:lang, @xml:space)
    (att.global.rendition (@rend)) (att.global.linking (@corresp, @next, @prev))
    (att.global.analytic (@ana)) (att.global.facs (@facs)) (att.global.responsibility)
    (@cert, @resp)) (att.global.source (@source))

Member of model.encodingDescPart

Contained by
header: encodingDesc

May contain
header: taxonomy

Example
<classDecl>
    <taxonomy xml:id="LCSH">
        <bibl>Library of Congress Subject Headings</bibl>
    </taxonomy>
</classDecl>

<!-- ... -->
<textClass>
    <keywords scheme="#LCSH">
        <term>Political science</term>
        <term>United States -- Politics and government -- Revolution, 1775-1783</term>
    </keywords>
</textClass>

Content model

<content>
    <elementRef key="taxonomy" minOccurs="1"
        maxOccurs="unbounded"/>
</content>

Schema Declaration

element classDecl { att.global.attributes, taxonomy+ }
<closer> (closer) groups together salutations, datelines, and similar phrases appearing as a final group at the end of a division, especially of a letter. [4.2.2. Openers and Closers 4.2. Elements Common to All Divisions]

Module textstructure

Attributes Attributes att.global (@xml:id, @n, @xml:lang, @xml:space)
  (att.global.rendition (@rend)) (att.global.linking (@corresp, @next, @prev))
  (att.global.analytic (@ana)) (att.global.facs (@facs)) (att.global.responsibility (@cert, @resp))
  (att.global.source (@source)) att.written (@hand)

Member of model.divBottomPart

Contained by

core: lg list
figures: figure table

May contain

analysis: interp interpGrp pc s w

core: abbr add address choice corr date del emph expand foreign gan gloss graphic hi
  index lb mentioned milestone name note num orig pb ptr q ref reg rs sic soCalled
term time title unclear

figures: figure formula

header: idno

linking: anchor seg

tagdocs: att code gi ident val

textstructure: dateline salute signed

character data

Example

<div type="letter">
  <p> perhaps you will favour me with a sight of it when convenient.</p>
  <closer>
    <salute>I remain, &c. &c.</salute>
    <signed>H. Colburn</signed>
  </closer>
</div>

Example

<div type="chapter">
  <p> <!-- ... --> and his heart was going like mad and yes I said yes I will Yes. </p>
  <closer>
    <dateline>
      <name type="place">Trieste-Zürich-Paris, </name>
      <date>1914–1921</date>
    </dateline>
  </closer>
</div>

Content model

<content>
  <alternate minOccurs="0" maxOccurs="unbounded">
  </content>
<code>
</code>

```xml
<code>
<textNode/>
<classRef key="model.gLike"/>
<elementRef key="signed"/>
<elementRef key="dateline"/>
<elementRef key="salute"/>
<classRef key="model.phrase"/>
<classRef key="model.global"/>
</alternate>
</content>
```

**Schema Declaration**

```
<code>

element closer
{
  att.global.attributes,
  att.written.attributes,
  {
    text
    | model.gLike | signed | dateline | salute | model.phrase | model.global
  }
}
```

<code> contains literal code from some formal language such as a programming language.

### 22.1.1. Phrase Level Terms

**Module** tagdocs

**Attributes**

- **att.global** (@xml:id, @n, @xml:lang, @xml:space)
- **att.global.rendition** (@rend)
- **att.global.linking** (@corresp, @next, @prev)
- **att.global.analytic** (@ana)
- **att.global.facs** (@facs)
- **att.global.responsibility** (@cert, @resp)
- **att.global.source** (@source)

**@lang** (formal language) a name identifying the formal language in which the code is expressed

**Status** Optional

**Datatype** teidata.word

**Member of** model.emphLike

**Contained by** analysis

**Core**

- abbr
- add
- addrLine
- author
- bibl
- biblScope
- corr
- date
- del
- desc
- editor
- emph
- expan
- foreign
- gloss
- head
- hi
- item
- l
- label
- mentioned
- name
- note
- orig
- p
- pubPlace
- publisher
- q
- ref
- reg
- resp
- rs
- sic
- soCalled
- speaker
- stage
- term
- title
- unclear

**Figures**

- cell
- figDesc

**Header**

- authority
- catDesc
- change
- classCode
- creation
- distributor
- edition
- extent
- funder
- language
- licence
- principal
- sponsor

**Linking**

- seg

**Tagdocs**

- eg

**Textstructure**

- byline
- closer
- dateline
- docAuthor
- docDate
- docEdition
- docImprint
- imprimatur
- opener
- salute
- signed
- titlePart
- trailer

May contain Character data only

**Example**

```java
<code lang="JAVA"> Size fCheckbox1Size = new Size();
fCheckbox1Size.Height = 500;
</code>
```
A LIST OF ELEMENTS DESCRIBED

<code>
fCheckbox1Size.Width = 500;
xCheckbox1.setSize(fCheckbox1Size);
</code>

Content model
<content> <TextNode/></content>

Schema Declaration

```
<corr>
(corr) contains the correct form of a passage apparently erroneous in the copy text. [3.5.1. Apparent Errors]

Module core
Attributes Attributes att.global (@xml:id, @n, @xml:lang, @xml:space)
( att.global.rendition (@rend) )
( att.global.linking (@corresp, @next, @prev) )
( att.global.analytic (@ana) )
( att.global.faces (@faces) )
( att.global.responsibility (@cert, @resp) )
( att.global.source (@source) )
( att.editLike (@evidence, @instant) )
att.typed (@type, @subtype)

Member of model.choicePart model.pPart.transcriptional

Contained by
analysis: pc s w

core: abbr add addrLine author bibl biblScope choice corr date del editor emph expan foreign gloss head hi item label mentioned name note num orig p pubPlace publisher q ref reg rs sic soCalled speaker stage term time title unclear

figures: cell

header: change distributor edition extent licence

linking: seg

tagdocs: eg

textstructure: byline closer dateline docAuthor docDate docEdition docImprint imprimatur opener salute signed titlePart trailer

May contain
analysis: interp interpGrp pc s w

core: abbr add address bibl choice cit corr date del desc emph expan foreign gap gloss graphic hi index item label lb lg list listBibl mentioned milestone name note num orig pb ptr q ref reg rs sic soCalled stage term time title unclear

figures: figure formula table

header: idno

linking: anchor seg

tagdocs: att code eg cg id ident val

character data

Example If all that is desired is to call attention to the fact that the copy text has been corrected, <corr> may be used alone:

I don't know, Juan. It's so far in the past now — how <corr> can we</corr> prove or disprove anyone's theories?

Example It is also possible, using the <choice> and <sic> elements, to provide an uncorrected reading:
I don't know, Juan. It's so far in the past now - how can we prove or disprove anyone's theories?

Content model

```
<content>
  <macroRef key="macro.paraContent"/>
</content>
```

Schema Declaration

```
element corr {
  att.global.attributes,
  att.editLike.attributes,
  att.typed.attributes,
  macro.paraContent}
```

<creation> (creation) contains information about the creation of a text. [2.4.1. Creation]

Module header

Attributes Attributes att.global (@xml:id, @n, @xml:lang, @xml:space)
  (att.global.rendition (@rend)) (att.global.linking (@corresp, @next, @prev))
  (att.global.analytic (@ana)) (att.global.faces (@facets)) (att.global.responsibility
  (@cert, @resp)) (att.global.source (@source)) att.datable (@period) (att.datable.w3c
  (@when))

Member of model.profileDescPart

Contained by header: profileDesc

May contain core: abbr address choice date emph expan foreign gloss hi mentioned name num ptr q
  refs soCalled term time title

header: idno
tagdocs: att code gi ident val

character data

Note The <creation> element may be used to record details of a text’s creation, e.g. the
date and place it was composed, if these are of interest.

It may also contain a more structured account of the various stages or revisions
associated with the evolution of a text; this should be encoded using the
<listChange> element. It should not be confused with the <publicationStmt> element, which records date and place of publication.

Example

```
<creation>
  <date>Before 1987</date>
</creation>
```
A LIST OF ELEMENTS DESCRIBED

Example

```xml
<creation>
  <date when="1988-07-10">10 July 1988</date>
</creation>
```

Content model

```xml
<content>
  <alternate minOccurs="0" maxOccurs="unbounded">
    <TextNode/>
    <classRef key="model.limitedPhrase"/>
    <elementRef key="listChange"/>
  </alternate>
</content>
```

Schema Declaration

```xml
element creation
{
  att.global.attributes,
  att.datable.attributes,
  ( text | model.limitedPhrase | listChange )* 
}
```

```
(date) contains a date in any format. [3.6.4. Dates and Times 2.2.4. Publication, Distribution, Licensing, etc. 2.6. The Revision Description 3.12.2.4. Imprint, Size of a Document, and Reprint Information 15.2.3. The Setting Description 13.4. Dates]
```

Module core

Attributes Attributes att.global (@xml:id, @n, @xml:lang, @xml:space)
(att.global.rendition (@rend)) (att.global.linking (@corresp, @next, @prev))
(att.global.analytic (@ana)) (att.global.facets (@facets)) (att.global.responsibility (@cert, @resp)) (att.global.source (@source)) att.canonical (@key, @ref) att.datable (@period) (att.datable.w3c (@when)) att.editLike (@evidence, @instant)
att.dimensions (@unit, @quantity, @extent, @precision, @scope) (att.ranging (@atLeast, @atMost, @min, @max, @confidence)) att.typed (@type, @subtype)

Member of model.dateLike, model.publicationStmtPart.detail

Contained by

| analysis: | s |
| core: | abbr add addrLine author bibl biblScope corr date del desc editor emph expan foreign gloss head hi item label mentioned name note num orig p pubPlace publisher q ref reg resp rs sic soCalled speaker stage term time title unclear |
| figures: | cell figDesc |
| header: | authority catDesc change classCode creation distributor edition extent funder language licence principal publicationStmt sponsor |
| linking: | seg |
| tagdocs: | eg |
| textstructure: | byline closer dateline docAuthor docDate docEdition docImprint imprimatur opener salute signed titlePart trailer |

May contain
Example

<date when="1980-02">early February 1980</date>

Example

Given on the <date when="1977-06-12">Twelfth Day of June in the Year of Our Lord One Thousand Nine Hundred and Seventy-seven of the Republic the Two Hundredth and first and of the University the Eighty-Sixth.</date>

Example

<date when="1990-09">September 1990</date>

Content model

<content>
<alternate minOccurs="0" maxOccurs="unbounded">
<textNode/>
<classRef key="model.gLike"/>
<classRef key="model.phrase"/>
<classRef key="model.global"/>
</alternate>
</content>

Schema Declaration

element date
{
 att.global.attributes,
 att.canonical.attributes,
 att.databindable.attributes,
 att.editLike.attributes,
 att.dimensions.attributes,
 att.typed.attributes,
 ( text | model.gLike | model.phrase | model.global )*
}

<dateline> (dateline) contains a brief description of the place, date, time, etc. of production of a letter, newspaper story, or other work, prefixed or suffixed to it as a kind of heading or trailer. [4.2.2. Openers and Closers]

Module textstructure
A LIST OF ELEMENTS DESCRIBED

Attributes

- **att.global** (@xml:id, @n, @xml:lang, @xml:space)
- **att.global.rendition** (@rend)
- **att.global.linking** (@corresp, @next, @prev)
- **att.global.analytic** (@ana)
- **att.global.facs** (@facs)
- **att.global.responsibility** (@cert, @resp)
- **att.global.source** (@source)

Member of
- model.divWrapper
- model.pLike.front

Contained by
- core: lg list
- figures: figure table
- textstructure: back body closer div front group opener

May contain
- analysis: interp interpGrp pc s w
- core: abbr add address choice corr date del emph expan foreign gap gloss graphic hi index lb mentioned milestone name note num orig pb ptr q ref reg rs sic soCalled term time title unclear
- figures: figure formula
- header: idno
- linking: anchor seg
- tagdocs: att code gi ident val
- textstructure: docDate

Character data

Example

```xml
<dateline>Walden, this 29. of August 1592</dateline>
```

Example

```xml
<div type="chapter">
  <p>
  <!- - ... --> and his heart was going like mad and yes I said yes I will
  Yes.</p>
  <closer>
  <dateline>
    <name type="place">Trieste-Zürich-Paris</name>
    <date>1914–1921</date>
  </dateline>
  </closer>
</div>
```

Content model

```xml
<content>
  <alternate minOccurs="0" maxOccurs="unbounded">
    <TextNode/>
    <classRef key="model.gLike"/>
    <classRef key="model.phrase"/>
    <classRef key="model.global"/>
    <elementRef key="docDate"/>
  </alternate>
</content>
```

Schema Declaration

```xml
element dateline {
```
<del>

(att.global.attributes,
  (text | model.gLike | model.phrase | model.global | docDate)*)

</del>

(deletion) contains a letter, word, or passage deleted, marked as deleted, or otherwise indicated as superfluous or spurious in the copy text by an author, scribe, or a previous annotator or corrector. [3.5.3. Additions, Deletions, and Omissions]

Module core

Attributes

att.global (att.global.rendition (@rend)) (att.global.linking (@corresp, @next, @prev)) (att.global.facs (@facs)) (att.global.responsibility (@cert, @resp)) (att.global.source (@source)) (att.transcriptional (@status, @cause, @seg) (att.editLike (@evidence, @instant)) (att.written (@hand)) (att.typed (@type, @subtype)) (att.dimensions (@unit, @extent, @precision, @scope)) (att.ranging (@atLeast, @atMost))

Member of model.pPart.transcriptional

Contained by

analysis: pc s w

core: abbr add addrLine author bibl biblScope corr date del editor emph expan foreign gloss head hi item l label mentioned name note num orig p pubPlace publisher q ref reg rs sic soCalled speaker stage term time title unclear

figures: cell

header: change distributor edition extent licence

linking: seg

tagdocs: eg

textstructure: byline closer dateline docAuthor docDate docEdition docImprint imprimatur opener salute signed titlePart trailer

May contain

analysis: interp interpGrp pc s w

core: abbr address bibl choice cit corr date del desc emph expan foreign gap gloss graphic hi index i label lb lg listBibl mentioned milestone name note num orig p pb ptr q ref rs sic soCalled stage term time title unclear

figures: figure formula table

header: idno

linking: anchor seg

tagdocs: att code eg gi ident val

character data

Note This element should be used for deletion of shorter sequences of text, typically single words or phrases. The <delSpan> element should be used for longer sequences of text, for those containing structural subdivisions, and for those containing overlapping additions and deletions.

The text deleted must be at least partially legible in order for the encoder to be able to transcribe it (unless it is restored in a <supplied> tag). Illegible or lost text within a deletion may be marked using the <gap> tag to signal that text is present but has not been transcribed, or is no longer visible. Attributes on the <gap> element may be used to indicate how much text is omitted, the reason for omitting
It, etc. If text is not fully legible, the `<unclear>` element (available when using the additional tagset for transcription of primary sources) should be used to signal the areas of text which cannot be read with confidence in a similar way.

Degrees of uncertainty over what can still be read, or whether a deletion was intended may be indicated by use of the `<certainty>` element (see 21. Certainty, Precision, and Responsibility).

There is a clear distinction in the TEI between `<del>` and `<surplus>` on the one hand and `<gap>` or `<unclear>` on the other. `<del>` indicates a deletion present in the source being transcribed, which states the author’s or a later scribe’s intent to cancel or remove text. `<surplus>` indicates material present in the source being transcribed which should have been so deleted, but which is not in fact. `<gap>` or `<unclear>`, by contrast, signal an editor’s or encoder’s decision to omit something or their inability to read the source text. See sections 11.3.1.7. Text Omitted from or Supplied in the Transcription and 11.3.3.2. Use of the gap, del, damage, unclear, and supplied Elements in Combination for the relationship between these and other related elements used in detailed transcription.

Example

```xml
<l>
    <del rend="overtyped">Mein</del> Frisch
    <del rend="overstrike" type="primary">schwebt</del>
    weht der Wind
</l>
```

Example

```xml
<del rend="overstrike">
    <gap reason="illegible" quantity="5" unit="character"/>
</del>
```

Content model

```xml
<content>
    <macroRef key="macro.paraContent"/>
</content>
```

Schema Declaration

```
element del
{
    att.global.attributes,
    att.transcriptional.attributes,
    att.typed.attributes,
    att.dimensions.attributes,
    macro.paraContent}
```

<desc> (description) contains a brief description of the object documented by its parent element, typically a documentation element or an entity. [22.4.1. Description of Components]

Module core

Attributes Attributes att.global (@xml:id, @n, @xml:lang, @xml:space)
(att.global.rendition (@rend)) (att.global/linking (@corresp, @next, @prev))
@type characterizes the element in some sense, using any convenient classification scheme or typology.

Derived from att.typed

Status Optional

Datatype teidata.enumerated

Suggested values include: deprecationInfo (deprecation information)

This element describes why or how its parent element is being deprecated, typically including recommendations for alternate encoding.

<desc type="deprecationInfo" versionDate="2018-09-14">
  Several standards bodies, including NIST in the USA, strongly recommend against ending the representation of a number with a decimal point. So instead of <q>3.</q> use either <q>3</q> or <q>3.0</q>.
</desc>

Note When used in a specification element such as <elementSpec>, TEI convention requires that this be expressed as a finite clause, beginning with an active verb.

Example

<desc> contains a brief description of the purpose and intended use of a documentation element, or a brief characterisation of a parent entity </desc>

Schematron A <desc> with a type of deprecationInfo should only occur when its parent
element is being deprecated. Furthermore, it should always occur in an element that is being deprecated when <desc> is a valid child of that element.

```
<sch:rule context="tei:desc[ @type eq 'deprecationInfo']">  
<sch:assert test="../@validUntil">Information about a deprecation should only be present in a specification element that is being deprecated: that is, only an element that has a @validUntil attribute should have a child <desc type="deprecationInfo">.</sch:assert> </sch:rule>
```

Content model

```
<content>  
<macroRef key="macro.limitedContent"/>  
</content>
```

Schema Declaration

```
element desc
{
  att.global.attributes,
  att.translatable.attributes,
  att.typed.attribute.subtype,
  attribute type { "deprecationInfo" }?,
  macro.limitedContent
}
```

**<distributor>** (distributor) supplies the name of a person or other agency responsible for the distribution of a text. [2.2.4. Publication, Distribution, Licensing, etc.]

**Module header**

Attributes

```
att.global ( @xml:id, @n, @xml:lang, @xml:space)
  (att.global.rendition ( @rend )) (att.global.linking ( @corresp, @next, @prev ))
  (att.global.analytic ( @ana )) (att.global.facs ( @facs )) (att.global.responsibility)
  ( @cert, @resp ) (att.global.source ( @source )) att.canonical ( @key, @ref )
```

Member of model.imprintPart | model.publicationStmtPart.agency

Contained by

```
core: bib 
header: publicationStmt 
```

May contain

```
analysis: interp interpGrp pc s w 
core: abbr add address choice cit corr date del emph expand foreign gap gloss graphic hi index lb mentioned milestone name note num orig pb ptr q ref reg rs sic soCalled time unclear    
figures: figure formula
header: idno
linking: anchor seg
tagdocs: att code gi iden val
```

Character data

```
Example

<distributor>Oxford Text Archive</distributor>
<distributor>Redwood and Burn Ltd</distributor>
```

Content model
<content>
  <macroRef key="macro.phraseSeq"/>
</content>

Schema Declaration

element distributor
{
    att.global.attributes,
    att.canonical.attributes,
    macro.phraseSeq}

<text division> contains a subdivision of the front, body, or back of a text. [4.1. Divisions of the Body]

Module
textstructure

Attributes

att.global (@xml:id, @n, @xml:lang, @xml:space)
  (att.global.rendition (@rend)) (att.global.linking (@corresp, @next, @prev))
  (att.global.analytic (@ana)) (att.global.facs (@facs)) (att.global.responsibility (@cert, @resp)) (att.global.source (@source)) att.divLike (@oriq, @sample) (att.fragmentable (@part)) att.typed (@type, @subtype) att.declaring (@decls) att.written (@hand)

Member of model.divLike

Contained by
textstructure: back body div front

May contain
analysis: interp interpGrp

core: bibl cit desc divGen gap head index label lb lg list listBibl milestone note p pb q sp stage

figures: figure table

linking: anchor

tagdocs: eg
textstructure: argument byline closer dateline div docAuthor docDate epigraph opener postscript salute signed trailer

Example

<body>
  <div type="part">
    <head>Fallacies of Authority</head>
    <p>The subject of which is Authority in various shapes, and the object, to repress all exercise of the reasoning faculty.</p>
    <div n="1" type="chapter">
      <head>The Nature of Authority</head>
      <p>With reference to any proposed measures having for their object the greatest happiness of the greatest number [...]</p>
      <div n="1.1" type="section">
        <head>Analysis of Authority</head>
        <p>What on any given occasion is the legitimate weight or influence to be attached to authority [...] </p>

Example

</body>
A LIST OF ELEMENTS DESCRIBED

Appeal to Authority, in What Cases Fallacious.

Reference to authority is open to the charge of fallacy when [...]
Schema Declaration

```xml
<content>
<content>

element div {
    att.global.attributes,
    att.divLike.attributes,
    att.typed.attributes,
    att.declaring.attributes,
    att.written.attributes,
    ( ( model.divTop | model.global )*,
    )?
    ( ( model.divLike | model.divGenLike ), model.global* )*,
    ( ( model.common, model.global* )+,
    ( ( model.divLike | model.divGenLike ), model.global* )*
    ),
    ( model.divBottom, model.global* )*
}
</content>
</content>
```

<divGen> (automatically generated text division) indicates the location at which a textual division generated automatically by a text-processing application is to appear. [3.9.2. Index Entries]

Module core
Attributes Attributes att.global (@xml:id, @n, @xml:lang, @xml:space)
          (att.global.rendition (@rend)) (att.global.linking (@corresp, @next, @prev))
          (att.global.analytic (@ana)) (att.global.facs (@facs)) (att.global.responsibility
          (@cert, @resp)) (att.global.source (@source)) att.typed (text, @subtype)
@type specifies what type of generated text division (e.g. index, table of contents, etc.) is to appear.
   Derived from att.typed
Status Optional
Datatype teidata.enumerated
Sample values include: index an index is to be generated and inserted at this point.
   toc a table of contents
   figlist a list of figures
   tablist a list of tables
Note Valid values are application-dependent; those shown are of obvious utility in document production, but are by no means exhaustive.

Member of model.divGenLike model.frontPart
Contained by textstructure: back body div front
May contain core: head

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Note This element is intended primarily for use in document production or manipulation, rather than in the transcription of pre-existing materials; it makes it easier to specify the location of indices, tables of contents, etc., to be generated by text preparation or word processing software.

Example One use for this element is to allow document preparation software to generate an index and insert it in the appropriate place in the output. The example below assumes that the indexName attribute on <index> elements in the text has been used to specify index entries for the two generated indexes, named NAMES and THINGS:

```xml
<back>
<div1 type="backmat">
<head>Bibliography</head>
</div1>
<example>
<back>
<front>
<!-- ... -->
</front>
</example>
</back>
```

Example Another use for <divGen> is to specify the location of an automatically produced table of contents:

```xml
<front>
<!--<titlePage>...</titlePage>-->
<divGen type="toc"/>
<front>
</front>
```

Content model

```xml
<content>
<classRef key="model.headLike"
  minOccurs="0" maxOccurs="unbounded"/>
</content>
```

Schema Declaration

```xml
element divGen
{
  att.global.attributes,
  att.typed.attribute.subtype,
  attribute type { text }?,
  model.headLike*
}
```

<docAuthor> (document author) contains the name of the author of the document, as given on the title page (often but not always contained in a byline). [4.6. Title Pages]
Note The document author’s name often occurs within a byline, but the <docAuthor> element may be used whether the <byline> element is used or not. It should be used only for the author(s) of the entire document, not for author(s) of any subset or part of it. (Attributions of authorship of a subset or part of the document, for example of a chapter in a textbook or an article in a newspaper, may be encoded with <byline> without <docAuthor>.)

Example

<page>
<titlePage>
<docTitle>
  <titlePart>Travels into Several Remote Nations of the World, in Four Parts.</titlePart>
</docTitle>
<byline> By <docAuthor>Lemuel Gulliver</docAuthor>, First a Surgeon, and then a Captain of several Ships</byline>
</titlePage>
</page>

Content model

<content>
  <macroRef key="macro.phraseSeq"/>
</content>

Schema Declaration

element docAuthor
{
  att.global.attributes,
  att.canonical.attributes,
  macro.phraseSeq
}

<docDate> (document date) contains the date of a document, as given on a title page or in a dateline. [4.6. Title Pages]
Module textstructure

Attributes Attributes att.global (@xml:id, @n, @xml:lang, @xml:space)
   (att.global.rendition (@rend)) (att.global.linking (@corresp, @next, @prev))
   (att.global.analytic (@ana)) (att.global.facet (@faces)) (att.global.responsibility
   (@cert, @resp)) (att.global.source (@source))

@when (when) gives the value of the date in standard form, i.e. YYYY-MM-DD.

Status Optional

Datatype teidata.temporal.w3c

Note For simple dates, the when attribute should give the Gregorian or
proleptic Gregorian date in one of the formats specified in XML

Member of model.divWrapper model.pLike.front model.titlepagePart

Contained by

core: lg list

figures: figure table
textstructure: back body dateline div docImprint front group titlePage

May contain

analysis: interp interpGrp p e s w

core: abbr add address choice cit corr date del emph expan foreign gap gloss graphic hi
   index lb mentioned milestone name note num orig pb ptr q ref reg rs sic soCalled
   term time title unclear

figures: figure formula

header: idno

linking: anchor seg

tagdocs: att code gi ident val
character data

Note Cf. the general <date> element in the core tag set. This specialized element is
provided for convenience in marking and processing the date of the documents, since
it is likely to require specialized handling for many applications. It should be used
only for the date of the entire document, not for any subset or part of it.

Example

<docImprint>Oxford, Clarendon Press, <docDate>1987</docDate>
</docImprint>

Content model

<content>
   <macroRef key="macro.phraseSeq"/>
</content>

Schema Declaration

element docDate
{
   att.global.attributes,
   attribute when { text }?,
   macro.phraseSeq}

Module textstructure

Attributes Attributes att.global (@xml:id, @n, @xml:lang, @xml:space)
(att.global.rendition (@rend)) (att.global.linking (@corresp, @next, @prev))
(att.global.analytic (@ana)) (att.global.facs (@facs)) (att.global.responsibility (@cert, @resp)) (att.global.source (@source))

Member of model.pLike.front model.titlepagePart

Contained by textstructure: back front titlePage

May contain analysis: interp interpGrp pc w

core: abbr add address bibl choice cit corr date del desc emph expan foreign gap gloss

graphic hi index il label lb lg list listBibl mentioned milestone name note num orig pb

ptr q ref reg rs sic soCalled stage term time title unclear

figures: figure formula table

header: idno

linking: anchor seg

tagdocs: att code eg gi ident val

character data

Note Cf. the <edition> element of bibliographic citation. As usual, the shorter name has been given to the more frequent element.

Example


Content model

<content>
<macroRef key="macro.paraContent"/>
</content>

Schema Declaration

element docEdition { att.global.attributes, macro.paraContent }
A LIST OF ELEMENTS DESCRIBED

analysis: interp interpGrp pc s w
core: abbr add address choice cor date del emph expand foreign gap gloss graphic hi
index lb mentioned milestone name note num orig pb ptr pubPlace publisher q ref reg rs sic soCalled term time title unclear
figures: figure formula
header: idno
linking: anchor seg
tagdocs: att code gi ident val
textstructure: docDate
character data

Note Cf. the <imprint> element of bibliographic citations. As with title, author, and editions, the shorter name is reserved for the element likely to be used more often.

Example


Imprints may be somewhat more complex:

<docImprint>
  <pubPlace>London</pubPlace>
  Printed for <name>E. Nutt</name>, at
  <pubPlace>Royal Exchange</pubPlace>;
  <name>J. Roberts</name> in
  <pubPlace>wick-Lane</pubPlace>;
  <name>A. Dodd</name> without
  <pubPlace>Temple-Bar</pubPlace>;
  and <name>J. Graves</name> in
  <pubPlace>St. James's-street</pubPlace>
  <date>1722</date>
</docImprint>

Content model

<content>
  <alternate minOccurs="0"
maxOccurs="unbounded">
    <textNode/>
    <classRef key="model.gLike"/>
    <classRef key="model.phrase"/>  
    <elementRef key="pubPlace"/>
    <elementRef key="docDate"/>
    <elementRef key="publisher"/>
    <classRef key="model.global"/>
  </alternate>
</content>

Schema Declaration

element docImprint
{  
  att.global.attributes,
  {  
    text
    | model.gLike | model.phrase | pubPlace | docDate | publisher | model.
  }
}
<docTitle> (document title) contains the title of a document, including all its constituents, as given on a title page. [4.6. Title Pages]

Module textstructure

Attributes Attributes att.global (@xml:id, @n, @xml:lang, @xml:space)
att.global.rendition (@rend)
att.global.linking (@corresp, @cert, @prev)
att.global.analytic (@ana)
att.global.facs (@facs)
att.global.responsibility (@cert, @resp)
att.global.source (@source)
att.canonical (@key, @ref)

Member of model.pLike.front model.titlepagePart

Containing by textstructure: back front titlePage

May contain analysis: interp interpGrp
core: gap index lb milestone note pb
figures: figure
linking: anchor
textstructure: titlePart

Example

<docTitle>
  <titlePart type="main">The DUNCIAD, VARIOURVM.</titlePart>
  <titlePart type="sub">WITH THE PROLEGOMENA of SCRIBLERUS.</titlePart>
</docTitle>

Content model

<content>
  <sequence>
    <classRef key="model.global" minOccurs="0" maxOccurs="unbounded"/>
    <sequence minOccurs="1" maxOccurs="unbounded">
      <elementRef key="titlePart"/>
      <classRef key="model.global" minOccurs="0" maxOccurs="unbounded"/>
    </sequence>
  </sequence>
</content>

Schema Declaration

 element docTitle
  {
    att.global.attributes,
    att.canonical.attributes,
    ( model.global*, ( titlePart, model.global* )+ )
  }

<edition> (edition) describes the particularities of one edition of a text. [2.2.2. The Edition Statement]

Module header
A LIST OF ELEMENTS DESCRIBED

Attributes

att.global (@xml:id, @n, @xml:lang, @xml:space)
(att.global.rendition (@rend)) (att.global.linking (@corresp, @next, @prev))
(att.global.analytic (@ana)) (att.global.facs (@facs)) (att.global.responsibility (@cert, @resp))
(att.global.source (@source))

Member of model.biblPart

Contained by

core: bibl

header: editionStmt

May contain

analysis: interp interpGrp pc s w

core: abbr add address choice cit corr date del emph expand foreign gap gloss graphic hi

index lb mentioned milestone name note num orig pb ptr q ref reg rs sic soCalled term time title unclear

figures: figure formula

header: idno

linking: anchor seg

tagdocs: att code gi ident val

character data

Example

<edition>First edition <date>Oct 1990</date>
</edition>


Content model

<content>
<macroRef key="macro.phraseSeq"/>
</content>

Schema Declaration

element edition { att.global.attributes, macro.phraseSeq }

<editionStmt> (edition statement) groups information relating to one edition of a text. [2.2.2. The Edition Statement 2.2. The File Description]

Module header

Attributes

att.global (@xml:id, @n, @xml:lang, @xml:space)
(att.global.rendition (@rend)) (att.global.linking (@corresp, @next, @prev))
(att.global.analytic (@ana)) (att.global.facs (@facs)) (att.global.responsibility (@cert, @resp))
(att.global.source (@source))

Contained by

header: fileDesc

May contain

core: author editor respStmt

header: edition funder principal sponsor

Example
<editor>

<editionStmt>
<respStmt>
<resp>Adapted by </resp>
<name>Elizabeth Kirk</name>
</respStmt>
</editionStmt>

Example

<editionStmt>
<p>First edition, <date>Michaelmas Term, 1991.</date></p>
</editionStmt>

Content model

<content>
<alternate>
<classRef key="model.pLike" minOccurs="1" maxOccurs="unbounded"/>
<sequence>
<elementRef key="edition"/>
<classRef key="model.respLike" minOccurs="0" maxOccurs="unbounded"/>
</sequence>
</alternate>
</content>

Schema Declaration

element editionStmt
{
  att.global.attributes,
  ( model.pLike+ | ( edition, model.respLike* ) )
}

<editor> contains a secondary statement of responsibility for a bibliographic item, for example the name of an individual, institution or organization, (or of several such) acting as editor, compiler, translator, etc. [3.12.2.2. Titles, Authors, and Editors]

Module core

Attributes Attributes att.global (@xml:id, @n, @xml:lang, @xml:space) (att.global.rendition (@rend)) (att.global.linking (@corresp, @next, @prev)) (att.global.analytic (@ana)) (att.global.facs (@facs)) (att.global.responsibility (@cert, @resp)) (att.coralonal (@key, @ref)) att.naming (@role, @nymRef) att.canonical (@key, @ref) att.datable (@period) (att.datable.w3c (@when))

Member of model.respLike

Contained by

core: bibl
header: editionStmt seriesStmt titleStmt
May contain

analysis: interp interpGrp pc s w
A LIST OF ELEMENTS DESCRIBED

core: abbr add address choice cit corr date del emph expand foreign gap gloss graphic hi index lb mentioned milestone name note num prin pb ptr q ref reg rs sic soCalled
term time title unclear
figures: figure formula
header: idno
linking: anchor seg
tagdocs: att code gi ident val
character data

Note A consistent format should be adopted.
Particularly where cataloguing is likely to be based on the content of the header, it is advisable to use generally recognized authority lists for the exact form of personal names.

Example

<editor role="Technical_Editor">Ron Van den Branden</editor>
<editor role="Editor-in-Chief">John Walsh</editor>
<editor role="Managing_Editor">Anne Baillot</editor>

Content model

<content>
  <macroRef key="macro.phraseSeq"/>
</content>

Schema Declaration

element editor {
  att.global.attributes,
  att.naming.attributes,
  att.datable.attributes,
  macro.phraseSeq}

<editorialDecl> (editorial practice declaration) provides details of editorial principles and practices applied during the encoding of a text. [2.3.3. The Editorial Practices Declaration 2.3. The Encoding Description 15.3.2. Declarable Elements]

Module header
Attributes Attributes att.global (@xml:id, @n, @xml:lang, @xml:space)
  (att.global.rendition (@rend)) (att.global.linking (@corresp, @next, @prev))
  (att.global.analytic (@ana)) (att.global.facs (@facs)) (att.global.responsibility @cert, @resp) (att.global.source (@source)) att.declarable (@default)

Member of model.encodingDescPart
Contained by header: encodingDesc
May contain core: p
Example

<editorialDecl>
<p>All words converted to Modern American spelling using
Websters 9th Collegiate dictionary

All opening quotation marks converted to " all closing quotation marks converted to &cdq;.

Content model

```xml
<content>
  <alternate minOccurs="1" maxOccurs="unbounded">
    <classRef key="model.pLike"/>
  </alternate>
</content>
```

Schema Declaration

```xml
element editorialDecl
{
  att.global.attributes,
  att.declarable.attributes,
  model.pLike+
}
```

<eg> (example) contains any kind of illustrative example. 

22.5. Element Specifications

22.5.3. Attribute List Specification

Module tagdocs

Attributes

- att.global [xml:id, @n, @xml:lang, @xml:space]
- att.global rendition [@rend]
- att.global linking [@corresp, @next, @prev]
- att.global analytic [@ana]
- att.global facts [@facs]
- att.global responsibility [@cert, @resp]
- att.global source [@source]

Member of model.egLike

Contained by

- core: add cit corr del desc emph head hi item note orig p q ref reg sic stage title unclear
- figures: cell figDesc figure
- header: change licence
- linking: seg
- textstructure: argument body div docEdition epigraph imprimatur postscript salute signed titlePart trailer

May contain

- analysis: interp interpGrp pc s w
- core: abbr add address choice cit corr date del emph expan foreign gap gloss graphic hi index lb mentioned milestone name note num orig pb ptr q ref reg rs sic soCalled term time title unclear
- figures: figure formula
- header: idno
- linking: anchor seg
- tagdocs: att code gi idnt val
- character data

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Note If the example contains material in XML markup, either it must be enclosed within a CDATA marked section, or character entity references must be used to represent the markup delimiters. If the example contains well-formed XML, it should be marked using the more specific <egXML> element.

Example

```xml
<p>The <gi>term</gi> element is declared using the following syntax:
<eg><![CDATA[<!ELEMENT term (%phrase.content;)>]]</eg>
</p>
```

Content model

```
<content>
 <macroRef key="macro.phraseSeq"/>
</content>
```

Schema Declaration

```
element eg { att.global.attributes, macro.phraseSeq }
```

<emph> (emphasized) marks words or phrases which are stressed or emphasized for linguistic or rhetorical effect. [3.3.2.2. Emphatic Words and Phrases]

Module core

Attributes Attributes att.global (@xml:id, @n, @xml:lang, @xml:space)
(att.global.rendition (@rend)) (att.global.linking (@corresp, @next, @prev))
(att.global.analytic (@ana)) (att.global.facs (@facs)) (att.global.responsibility (@cert, @resp)) (att.global.source (@source))

Member of model.emphLike

Contained by

analysis: $ analysis

core: abbr add addrLine author bibl biblScope corr date del desc editor emph expan foreign gloss head hi item lb label mentioned name note num orig pb pubPlace publisher q ref reg res rs sic soCalled speaker stage term time title unclear

figures: cell figDesc

header: authority catDesc change classCode creation distributor edition extent funder
generic language licence principal sponsor

linking: seg

tagdocs: eg
textstructure: byline closer dateline docAuthor docDate docEdition docImprint
docImprint imprimatur opener salute signed titlePart trailer

May contain

analysis: interp interpGrp pc s w

core: abbr add address bibl choice cit corr date del desc emph expan foreign gap gloss
graphic hi index lb label l list listBibl mentioned milestone name note num orig pb ptr q ref reg res rs sic soCalled stage term time title unclear

figures: figure formula table

header: idno
<encodingDesc>

linking: anchor seg
tagdocs: att code eg gi ident val

classDecl editorDecl projectDecl refsDecl samplingDecl

Example

You took the car and did <emph>what</emph>??!

Example

<q>What it all comes to is this,</q> he said.
<emph>What does Christopher Robin do in the morning nowadays?</emph>

Content model

<content>
  <macroRef key="macro.paraContent"/>
</content>

Schema Declaration

element emph { att.global.attributes, macro.paraContent }

<encodingDesc>

(encoding description) documents the relationship between an
electronic text and the source or sources from which it was derived. 2.3. The
Encoding Description 2.1.1. The TEI Header and Its Components

Module header

Attributes

att.global (@xml:id, @n, @xml:lang, @xml:space)
(att.global.rendition (@rend)) (att.global.linking (@corresp, @next, @prev))
(att.global.analytic (@ana)) (att.global.facs (@facs)) (att.global.responsibility
(@cert, @resp)) (att.global.source (@source))

Member of model.teiHeaderPart

Contained by

header: teiHeader

May contain

core: p

header: classDecl editorDecl projectDecl refsDecl samplingDecl

Example

<encodingDesc>

<p>Basic encoding, capturing lexical information only. All
hyphenation, punctuation, and variant spellings normalized. No
formatting or layout information preserved.</p>

</encodingDesc>

Content model

<content>
  <alternate minOccurs="1" maxOccurs="unbounded">
    <classRef key="model.encodingDescPart"/>
  </alternate>
</content>

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<context>
<classRef key="model.pLike"/>
</alternate>
</content>

Schema Declaration

```
<epigraph>
(epigraph) contains a quotation, anonymous or attributed, appearing at the start or end of a section or on a title page. 4.2.3. Arguments, Epigraphs, and Postscripts 4.2. Elements Common to All Divisions 4.6. Title Pages

Module textstructure

Attributes

att.global: (@xml:id, @n, @xml:lang, @xml:space)
(att.global.rendition (@rend)) (att.global.linking (@corresp, @next, @prev))
(att.global.analytic (@ana)) (att.global.facs (@facs)) (att.global.responsibility (@cert, @resp)) (att.global.source (@source))

Member of

Model.divWrapper model.pLike.front model.titlepagePart

Contained by

core:  lg list
figures:  figure table
textstructure:  back body div front group opener titlePage

May contain

analysis:  interp interpGrp
core:  bibl cit desc gap index | label lb lg listBibl milestone note p pb q sp stage
figures:  figure table
linking:  anchor
tagdocs:  eg

Example

<epigraph xml:lang="la">
  <cit>
    <bibl>Lucret.</bibl>
    <quote>
      <l part="F">petere inde coronam,</l>
      <l>Vnde prius velarint tempora Musae.</l>
    </quote>
  </cit>
</epigraph>
```

Content model

```
<content>
<alternate minOccurs="0"
  maxOccurs="unbounded">
<classRef key="model.common"/>
<classRef key="model.global"/>
</alternate>
```
Schema Declaration

```
<expan>
  
</content>
</expan>
```

**Module** `core`

**Attributes**

- `att.global` (`@xml:id`, `@n`, `@xml:lang`, `@xml:space`)
  - `att.global.rendition` (`@rend`)
  - `att.global.linking` (`@corresp`, `@next`, `@prev`)
  - `att.global.analytic` (`@ana`)
  - `att.global.facs` (`@facs`)
  - `att.global.responsibility` (`@cert`, `@resp`)
  - `att.global.source` (`@source`)
  - `att.editLike` (`@evidence`, `@instant`)

**Member of** `model.choicePart | model.pPart.editorial`

**Contained by**

- `analysis`: `pc | s | w`
- `core`: `abbr`, `add`, `addrLine`, `author`, `bibl`, `biblScope`, `choice`, `corr`, `date`, `del`, `desc`, `editor`, `emph`, `expan`, `foreign`, `gloss`, `head`, `hi`, `item`, `l`, `label`, `mentioned`, `name`, `note`, `num`, `orig`, `p`, `publisher`, `q`, `ref`, `reg`, `resp`, `rs`, `sic`, `soCalled`, `speaker`, `stage`, `term`, `time`, `title`, `unclear`
- `figures`: `cell`, `figDesc`
- `header`: `authority`, `catDesc`, `change`, `classCode`, `creation`, `distributor`, `edition`, `extent`, `funder`, `language`, `licence`, `principal`, `sponsor`
- `linking`: `seg`
- `tagdocs`: `eg`
- `textstructure`: `byline`, `closer`, `dateline`, `docAuthor`, `docDate`, `docEdition`, `docImprint`, `imprimatur`, `opener`, `salute`, `signed`, `titlePart`, `trailer`

**May contain**

- `analysis`: `interp`, `interpGrp`, `pc`, `s`, `w`
- `core`: `abbr`, `add`, `address`, `choice`, `cit`, `corr`, `date`, `del`, `emp`, `expan`, `foreign`, `gap`, `gloss`, `graphic`, `hi`, `index`, `lb`, `mentioned`, `milestone`, `name`, `note`, `num`, `orig`, `pb`, `ptr`, `q`, `ref`, `reg`, `resp`, `rs`, `sic`, `soCalled`, `term`, `time`, `title`, `unclear`
- `figures`: `figure`, `formula`
- `header`: `idno`
- `linking`: `anchor`, `seg`
- `tagdocs`: `att`, `code`, `gi`, `ident`, `val`

**Character data**

**Note** The content of this element should be the expanded abbreviation, usually (but not always) a complete word or phrase. The `<ex>` element provided by the `transcr` module may be used to mark up sequences of letters supplied within such an expansion.

If abbreviations are expanded silently, this practice should be documented in the `<editorialDecl>`, either with a `<normalization>` element or a `<p>`.

**Example**

The address is Southmoor

```
<choice>
  Southmoor
</choice>
```
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Example

```xml
<choice xml:lang="la">
  <abbr>Imp</abbr>
  <expan>Imp<emphasis>erator</emphasis></expan>
</choice>
```

Content model

```xml
<content>
  <macroRef key="macro.phraseSeq"/>
</content>
```

Schema Declaration

```xml
element expan {
  att.global.attributes,
  att.editLike.attributes,
  macro.phraseSeq
}
```

<extent> (extent) describes the approximate size of a text stored on some carrier medium or of some other object, digital or non-digital, specified in any convenient units. [2.2.3. Type and Extent of File 2.2. The File Description 3.12.2.4. Imprint, Size of a Document, and Reprint Information 10.7.1. Object Description]

Module header
Attributes

<table>
<thead>
<tr>
<th>Attribute</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>@xml:id</td>
<td>Identifies the XML document</td>
</tr>
<tr>
<td>@n</td>
<td>Specifies the number of the object</td>
</tr>
<tr>
<td>@xml:lang</td>
<td>Specifies the language of the object</td>
</tr>
<tr>
<td>@xml:space</td>
<td>Specifies the space of the object</td>
</tr>
<tr>
<td>att.global.rendition</td>
<td>Specifies the rendition of the object</td>
</tr>
<tr>
<td>att.global.linking</td>
<td>Specifies the linking of the object</td>
</tr>
<tr>
<td>att.global.analytic</td>
<td>Specifies the analytic of the object</td>
</tr>
<tr>
<td>att.global.facs</td>
<td>Specifies the facts of the object</td>
</tr>
<tr>
<td>att.global.responsibility</td>
<td>Specifies the responsibility of the object</td>
</tr>
</tbody>
</table>

Member of model.biblPart

Contained by
- core: bib
- header: fileDesc

May contain
- analysis: interp interpGrp pc s w
- core: abbr add address choice cit corr cite date del emph expand foreign gap gloss graphic hi index lb mentioned milestone name note num prig pb ptr q ref ref reg rs sic soCalled term time title unclear
- figures: figure formula
- header: idno
- linking: anchor seg
- tagdocs: att code gi ident val

Character data

Example
Example The <measure> element may be used to supply normalised or machine tractable versions of the size or sizes concerned.

Example The <measure> element may be used to supply normalised or machine tractable versions of the size or sizes concerned.

Example The <measure> element may be used to supply normalised or machine tractable versions of the size or sizes concerned.

Example The <measure> element may be used to supply normalised or machine tractable versions of the size or sizes concerned.
flaming torch, in a rural setting.</figDesc>

Content model

```xml
<content>
  <macroRef key="macro.limitedContent"/>
</content>
```

Schema Declaration

```xml
element figDesc { att.global.attributes, macro.limitedContent }
```

<figure> (figure) groups elements representing or containing graphic information such as an illustration, formula, or figure. [14.4. Specific Elements for Graphic Images]

Module figures

Attributes

- att.global (@xml:id, @n, @xml:lang, @xml:space)
- att.global.rendition (@rend)
- att.global.linking (@corresp, @next, @prev)
- att.global.facs (@facs)
- att.global.responsibility (@cert, @resp)
- att.global.source (@source)
- att.placement (@place)
- att.typed (@type, @subtype)
- att.written (@hand)

Member of model.global

Contained by

- analysis: s w
- core: abbr add addrLine address author bibl biblScope cit corr date del editor emph expan foreign gloss head hi item l label lg list mentioned name note num orig p pubPlace publisher q ref reg resp rs sic soCalled sp speaker stage term time title unclear
- figures: cell figure table
- header: authority change classCode distributor edition extent funder language licence principal sponsor
- linking: seg
- tagdocs: eg
- textstructure: argument back body byline closer dateline div docAuthor docDate docEdition docImprint docTitle epigraph front group imprintur opener postscript salute signed text titlePage titlePart trailer

May contain

- analysis: interp interpGrp
- core: bibl cit desg gap graphic head index l label lb lg list listBibl milestone note p pb q sp stage
- figures: figDesc figure formula table
- linking: anchor
- tagdocs: eg
- textstructure: argument byline closer dateline docAuthor docDate epigraph postscript salute signed trailer

Example
The View from the Bridge

A Whistleresque view showing four or five sailing boats in the foreground, and a series of buoys strung out between them.

<figure>
  <head>The View from the Bridge</head>
  <figDesc>A Whistleresque view showing four or five sailing boats in the foreground, and a series of buoys strung out between them.</figDesc>
  <graphic url="http://www.example.org/fig1.png" scale="0.5"/>
</figure>

Content model

<content>
  <alternate minOccurs="0" maxOccurs="unbounded">
    <classRef key="model.headLike"/>
    <classRef key="model.common"/>
    <elementRef key="figDesc"/>
    <classRef key="model.graphicLike"/>
    <classRef key="model.global"/>
    <classRef key="model.divBottom"/>
  </alternate>
</content>

Schema Declaration

element figure {
  att.global.attributes,
  att.placement.attributes,
  att.typed.attributes,
  att.written.attributes,
  {
    model.headLike | model.common | figDesc | model.graphicLike | model.global | model.divBottom
  }
}

(file description) contains a full bibliographic description of an electronic file. [2.2. The File Description] [2.1.1. The TEI Header and Its Components]

Module header

Attributes

att.global (@xml:id, @n, @xml:lang, @xml:space)
  (att.global.rendition (@rend)) (att.global.linking (@corresp, @next, @prev))
  (att.global.analytic (@ana)) (att.global.facs (@facs)) (att.global.responsibility (@cert, @resp)) (att.global.source (@source))

Contained by

header: teiHeader

May contain

header: editionStmt extent notesStmt publicationStmt seriesStmt sourceDesc titleStmt

Note

The major source of information for those seeking to create a catalogue entry or bibliographic citation for an electronic file. As such, it provides a title and statements of responsibility together with details of the publication or distribution of the file, of any series to which it belongs, and detailed bibliographic notes for matters not addressed elsewhere in the header. It also contains a full bibliographic description for the source or sources from which the electronic text was derived.

Example
A LIST OF ELEMENTS DESCRIBED

<fileDesc>
  <titleStmt>
    <title>The shortest possible TEI document</title>
  </titleStmt>
  <publicationStmt>
    <p>Distributed as part of TEI P5</p>
  </publicationStmt>
  <sourceDesc>
    <p>No print source exists: this is an original digital text</p>
  </sourceDesc>
</fileDesc>

Content model

<content>
  <sequence>
    <sequence>
      <elementRef key="titleStmt"/>
      <elementRef key="editionStmt" minOccurs="0"/>
      <elementRef key="extent" minOccurs="0"/>
      <elementRef key="publicationStmt"/>
      <elementRef key="seriesStmt" minOccurs="0" maxOccurs="unbounded"/>
      <elementRef key="notesStmt" minOccurs="0"/>
    </sequence>
    <elementRef key="sourceDesc" minOccurs="1" maxOccurs="unbounded"/>
  </sequence>
</content>

Schema Declaration

element fileDesc
{
  att.global.attributes,
  (titleStmt,
   editionStmt?,
   extent?,
   publicationStmt,
   seriesStmt*,
   notesStmt?
  ),
  sourceDesc+
}

<foreign> (foreign) identifies a word or phrase as belonging to some language other than that of the surrounding text. [3.3.2.1. Foreign Words or Expressions]
Member of model.emphLike

Contained by

analysis: s

core: abbr add addrLine author bibl biblScope corr date del desc editor emph expan
foreign gloss head hi item l label mentioned name note num orig p pubPlace publisher q ref reg res resp rs sic soCalled speaker stage term time title unclear

figures: cell figDesc

header: authority catDesc change classCode creation distributor edition extent funder
language licence principal sponsor

linking: seg

tagdocs: eg

textstructure: byline closer dateline docAuthor docDate docEdition docImprint
imprimatur opener salute signed titlePart trailer

May contain

analysis: interp interpGrp pc s w

core: abbr add address choice cit corr date del emph expan foreign gap gloss graphic hi
index lb mentioned milestone name note num orig pb ptr q ref reg res rs sic soCalled
term time title unclear

figures: figure formula

header: idno

linking: anchor seg

tagdocs: att code gi ident val

character data

Note The global xml:lang attribute should be supplied for this element to identify the language of the word or phrase marked. As elsewhere, its value should be a language tag as defined in §6.1. Language Identification.

This element is intended for use only where no other element is available to mark the phrase or words concerned. The global xml:lang attribute should be used in preference to this element where it is intended to mark the language of the whole of some text element.

The <distinct> element may be used to identify phrases belonging to sublanguages or registers not generally regarded as true languages.

Example

This is heathen Greek to you still? Your <foreign xml:lang="la">lapis philosophicus</foreign>?

Content model

```
<content>
  <macroRef key="macro.phraseSeq"/>
</content>
```

Schema Declaration

```
element foreign { att.global.attributes, macro.phraseSeq }
```
<formula> (formula) contains a mathematical or other formula. [14.2. Formulae and Mathematical Expressions]

Module figures
Attributes Attributes att.global (@xml:id, @n, @xml:lang, @xml:space) (att.global.rendition (@rend)) (att.global.linking (@corresp, @next, @prev)) (att.global.analytic (@ana)) (att.global.facs (@facs)) (att.global.responsibility (@cert, @resp)) (att.global.source (@source)) att.notated (@notation)

Member of model.graphicLike
Contained by
analysis:

figures:
cell figure formula table

header:
change distributor edition extent licence

linking:

eg seg tagdocs:

textstructure:
byline closer dateline docAuthor docDate docEdition docImprint imprimatur opener salute signed titlePart trailer

May contain

core: character data

figures: formula

Example

<formula notation="tex">$E=mc^2$</formula>

Example

<formula notation="none">E=mc<hi rend="sup">2</hi></formula>

Example

<formula notation="mathml">
<m:math>
  <m:mi>E</m:mi>
  <m:mo>=</m:mo>
  <m:mi>m</m:mi>
  <m:msup>
    <m:mrow>
      <m:mi>c</m:mi>
    </m:mrow>
    <m:mn>2</m:mn>
  </m:msup>
</m:math>
</formula>

Content model

<content>
<front>

Schema Declaration

element formula
{
    att.global.attributes,
    att.notated.attributes,
    (text | model.graphicLike | model.hilike)*
}

<front> (front matter) contains any prefatory matter (headers, abstracts, title page, prefaces, dedications, etc.) found at the start of a document, before the main body.

Module textstructure

Attributes

att.global
    (@xml:id, @n, @xml:lang, @xml:space)
    (att.global.rendition (@rend))
    (att.global.linking (@corresp, @next, @prev))
    (att.global.analytic (@ana))
    (att.global.responsibility (@cert, @resp))
    (att.global.facs (@facs))
    (att.global.source (@source))
    att.declaring (@decls)

Contained by
textstructure: text

May contain
analysis: interp interpGrp
core: divGen gap head index lb listBibl milestone note p pb
figures: figure
linking: anchor
textstructure: argument byline closer dateline div docAuthor docDate docEdition
docImprint docTitle epigraph postscript salute signed titlePage titlePart trailer

Note
Because cultural conventions differ as to which elements are grouped as front matter
and which as back matter, the content models for the <front> and <back> elements
are identical.

Example

<front>
<epigraph>
<quote>Nam Sibyllam quedem Cumis ego ipse oculis meis vidi in ampulla
pendere, et cum illi pueri dicerent: <q xml:lang="grc">Σίβυλλα τί
θέλεις;</q>; respondebat illa: <q xml:lang="grc">ἀποθανεῖν θέλω.</q>
</quote>
</epigraph>
<div type="dedication">
<p>For Ezra Pound <q xml:lang="it">il miglior fabbro.</q>
</p>
</div>
</front>
Example

<front>
  <div type="dedication">
    <p>To our three selves</p>
  </div>
  <div type="preface">
    <head>Author's Note</head>
    <p>All the characters in this book are purely imaginary, and if the author has used names that may suggest a reference to living persons she has done so inadvertently. ...</p>
  </div>
</front>

Example

<front>
  <div type="abstract">
    <div>
      <head>BACKGROUND:</head>
      <p>Food insecurity can put children at greater risk of obesity because of altered food choices and nonuniform consumption patterns.</p>
    </div>
    <div>
      <head>OBJECTIVE:</head>
      <p>We examined the association between obesity and both child-level food insecurity and personal food insecurity in US children.</p>
    </div>
    <div>
      <head>DESIGN:</head>
      <p>Data from 9,701 participants in the National Health and Nutrition Examination Survey, 2001-2010, aged 2 to 11 years were analyzed. Child-level food insecurity was assessed with the US Department of Agriculture's Food Security Survey Module based on eight child-specific questions. Personal food insecurity was assessed with five additional questions. Obesity was defined, using physical measurements, as body mass index (calculated as kg/m2) greater than or equal to the age- and sex-specific 95th percentile of the Centers for Disease Control and Prevention growth charts. Logistic regressions adjusted for sex, race/ethnic group, poverty level, and survey year were conducted to describe associations between obesity and food insecurity.</p>
    </div>
    <div>
      <head>RESULTS:</head>
      <p>Obesity was significantly associated with personal food insecurity for children aged 6 to 11 years (odds ratio=1.81; 95% CI 1.33 to 2.48), but not in children aged 2 to 5 years (odds ratio=0.88; 95% CI 0.51 to 1.51). Child-level food insecurity was not associated with obesity among 2- to 5-year-olds or 6- to 11-year-olds.</p>
    </div>
    <div>
      <head>CONCLUSIONS:</head>
      <p>Personal food insecurity is associated with an increased risk of obesity only in children aged 6 to 11 years. Personal food-insecurity measures may give different results than aggregate food-insecurity measures in children.</p>
    </div>
  </div>
</front>
Content model

```xml
<content>
  <sequence>
    <alternate minOccurs="0" maxOccurs="unbounded">
      <classRef key="model.frontPart"/>
      <classRef key="model.pLike"/>
      <classRef key="model.pLike.front"/>
      <classRef key="model.global"/>
    </alternate>
    <sequence minOccurs="0">
      <alternate>
        <sequence>
          <classRef key="model.div1Like"/>
          <alternate minOccurs="0" maxOccurs="unbounded">
            <classRef key="model.div1Like"/>
            <classRef key="model.frontPart"/>
            <classRef key="model.global"/>
          </alternate>
        </sequence>
        <sequence>
          <classRef key="model.divLike"/>
          <alternate minOccurs="0" maxOccurs="unbounded">
            <classRef key="model.divLike"/>
            <classRef key="model.frontPart"/>
            <classRef key="model.global"/>
          </alternate>
        </sequence>
      </alternate>
      <sequence minOccurs="0">
        <classRef key="model.divBottom"/>
        <alternate minOccurs="0" maxOccurs="unbounded">
          <classRef key="model.divBottom"/>
          <classRef key="model.global"/>
        </alternate>
      </sequence>
    </sequence>
  </sequence>
</content>
```

Schema Declaration

element front
{
  att.global.attributes,
  att.declaring.attributes,
  ( model.frontPart | model.pLike | model.pLike.front | model.global )*,
  ( model.div1Like, ( model.div1Like | model.frontPart | model.global )* )
  | ( model.divLike, ( model.divLike | model.frontPart | model.global )* )
}
A LIST OF ELEMENTS DESCRIBED

```
},
  ( model.divBottom, ( model.divBottom | model.global )* )?
}
```

**<funder>** (funding body) specifies the name of an individual, institution, or organization responsible for the funding of a project or text. [2.2.1. The Title Statement]

**Module** header

**Attributes**

- `att.global` (`@xml:id`, `@n`, `@xml:lang`, `@xml:space`)
- `att.global.rendition` (`@rend`) (`att.global.linking` (`@corresp`, `@next`, `@prev`) `att.global.analytic` (`@ana`) `att.global.responsibility` (`@cert`, `@resp`) `att.global.source` (`@source`) `att.canonical` (`@key`, `@ref`) `att.datable` (`@period`) `att.datable.w3c` (`@when`) `att.global.attributes`, `att.canonical.attributes` `att.datable.w3c`

**Member of** `model.respLike`

**Contained by**
- `core: bib`
- `header: editionStmt titleStmt`

**May contain**
- `analysis: interp interpGrp`
- `core: abbr address choice date emph expan foreign gap gloss hi index lb mentioned milestone name note num pb ptr q ref rs soCalled term time title` `content`

**figures: figure**
- `header: idno`

**linking: anchor** `tagdocs: att code gi ident val`

**character data** `Note` Funders provide financial support for a project; they are distinct from sponsors (see element `<sponsor>`), who provide intellectual support and authority.

**Example**

```
<funder>The National Endowment for the Humanities, an independent federal agency</funder>
<funder>Directorate General XIII of the Commission of the European Communities</funder>
<funder>The Andrew W. Mellon Foundation</funder>
<funder>The Social Sciences and Humanities Research Council of Canada</funder>
```

**Content model**

```
<content>
  <macroRef key="macro.phraseSeq.limited"/>
</content>
```

**Schema Declaration**

```
element funder
  {
    att.global.attributes,
    att.canonical.attributes,
  }
```
(<gap>) indicates a point where material has been omitted in a transcription, whether for editorial reasons described in the TEI header, as part of sampling practice, or because the material is illegible, invisible, or inaudible. 3.5.3. Additions, Deletions, and Omissions

Module core
Attributes Attributes att.global (@xml:id, @n, @xml:lang, @xml:space)
(att.global.rendition (@rend)) (att.global.linking (@corresp, @next, @prev))
(att.global.analytic (@ana)) (att.global.facs (@facs)) (att.global.responsibility
(@cert, @resp)) (att.global.source (@source)) att.timed (@start, @end) att.editLike
(@evidence, @instant) att.dimensions (@unit, @quantity, @extent, @precision,
@scope) (att.ranging (@atLeast, @atMost, @min, @max, @confidence))

@reason (reason) gives the reason for omission

Status Optional
Datatype 1–∞ occurrences of teidata.enumerated separated by whitespace

Suggested values include: cancelled (cancelled)

  deleted (deleted)

  editorial (editorial) for features omitted from transcription due to editorial policy

illegible (illegible)

inaudible (inaudible)

irrelevant (irrelevant)

sampling (sampling)

@agent (agent) in the case of text omitted because of damage, categorizes the cause of the damage, if it can be identified.

Status Optional
Datatype teidata.enumerated

Sample values include: rubbing (rubbing) damage results from rubbing of the leaf edges

mildew (mildew) damage results from mildew on the leaf surface

smoke (smoke) damage results from smoke

Member of model.global.edit

Contained by: analysis

core: abbr add addrLine address author bibl biblScope cit corr date del editor emph
expan foreign gloss head hi item l label lg list mentioned name not num orig p
pubPlace publisher q ref reg resp rs sic soCalled sp speaker stage term time title
unclear

figures: cell figure table

header: authority change classCode distributor edition extent funder language licence
principal sponsor

linking: seg

tagdocs: eg
A LIST OF ELEMENTS DESCRIBED

textstructure: argument back body byline closer dateline div docAuthor docDate
docEdition docImprint docTitle epigraph front group imprimatur opener postscript
salute signed text titlePage titlePart trailer

May contain

core: desc

Note The <gap>, <unclear>, and <del> core tag elements may be closely allied in use
with the <damage> and <supplied> elements, available when using the additional
tagset for transcription of primary sources. See section 11.3.3.2. Use of the gap, del,
damage, unclear, and supplied Elements in Combination for discussion of which
element is appropriate for which circumstance.
The <gap> tag simply signals the editors decision to omit or inability to transcribe
a span of text. Other information, such as the interpretation that text was
deliberately erased or covered, should be indicated using the relevant tags, such as
<del> in the case of deliberate deletion.

Example

<gap quantity="4" unit="chars"
reason="illegible"/>

Example

<gap quantity="1" unit="essay"
reason="sampling"/>

Example

<del>
<gap atLeast="4" atMost="8" unit="chars"
reason="illegible"/>
</del>

Example

<gap extent="several lines" reason="lost"/>

Content model

<content>
<alternate minOccurs="0"
maxOccurs="unbounded">
<classRef key="model.descLike"/>
<classRef key="model.certLike"/>
</alternate>
</content>

Schema Declaration

element gap
{
att.global.attributes,
att.timed.attributes,
att.editLike.attributes,
att.dimensions.attributes,
attribute reason
{
list
{ (}
"cancelled"
"deleted"
"editorial"
"illegible"
"inaudible"
"irrelevant"
"sampling"

{ attribute agent { text }?,
  ( model.desclike | model.certlike )}

{element name} contains the name (generic identifier) of an element. 22.5. Element Specifications

Module tagdocs

Attributes attributes att.global (@xml:id, @n, @xml:lang, @xml:space)
  (att.global.rendition (@rend)) (att.global.linking (@corresp, @next, @prev))
  (att.global.analytic (@ana)) (att.global.facs (@facs)) (att.global.responsibility
  (@cert, @resp)) (att.global.source (@source))

@scheme supplies the name of the scheme in which this name is defined.

Status Optional

Datatype teidata.enumerated

Sample values include: TEI this element is part of the TEI scheme.[Default]

DBK (docbook) this element is part of the Docbook scheme.

XX (unknown) this element is part of an unknown scheme.

Schematron this element is from Schematron.

HTML this element is from the HTML scheme.

Member of model.phrase.xml

Contained by analysis:

core: abbr add addrLine author biblScope corr date del desc editor emph expand foreign

gloss head hi item label mentioned name note num orig p pubPlace publisher q ref
reg resp rs sic soCalled speaker stage term time title unclear

figures: cell figDesc

header: authority catDesc change classCode creation distributor edition extent funder

language licence principal sponsor

linking: seg

tagdocs: eg

textstructure: byline closer dateline docAuthor docDate docEdition docImprint

imprint opener salute signed titlePart trailer

May contain XSD Name

Example

<p>The &lt;gi&gt;xhtml:li&lt;/gi&gt; element is roughly analogous to the &lt;gi&gt;item&lt;/gi&gt;
element, as is the &lt;gi scheme="DBK"&gt;listItem&lt;/gi&gt; element.</p>
A LIST OF ELEMENTS DESCRIBED

This example shows the use of both a namespace prefix and the scheme attribute as alternative ways of indicating that the <gi> in question is not a TEI element name: in practice only one method should be adopted.

Content model `<content> <dataRef key="teidata.name"/></content>`

Schema Declaration
```
<element gi { att.global.attributes, attribute scheme { text }?, teidata.name }
```

<gloss> (gloss) identifies a phrase or word used to provide a gloss or definition for some other word or phrase. [3.4.1 Terms and Glosses 22.4.1. Description of Components]

Module core

Attributes Attributes att.global (@xml:id, @n, @xml:lang, @xml:space)
(att.global.rendition (@rend)) (att.global.linking (@corresp, @next, @prev))
(att.global.analytic (@ana)) (att.global.facings (@facs)) (att.global.responsibility)
(@cert, @resp)) (att.global.source (@source)) att.declaring (@decls) att.translatable
(@versionDate) att.typed (@type, @subtype) att.pointing (@targetLang, @target,
@evaluate) att.cReferencing (@cRef)

Member of model.emphLike

Contained by analysis:

core: abbr add addrLine author bibl biblScope corr date del desc editor emph expan
foreign gloss head hi item italic label mentioned name note num orig p pb ptr q ref reg resp rs sic soCalled speaker stage term time title unclear

figures: cell figDesc

header: idno

linking: seg

tagdocs: eg

textstructure: byline closer dateline docAuthor docDate docEdition docImprint
imprimatur opener salute signed titlePart trailer

May contain analysis: interp interpGrp pc s w

core: abbr add address choice cit corr date del emph expan foreign gap gloss graphic hi
index lb mentioned milestone name note num orig pb ptr q ref reg resp rs sic soCalled
term time title unclear

figures: figure formula

header: idno

linking: anchor seg

tagdocs: att code gi ident val

character data

Note The target and cRef attributes are mutually exclusive.

Example

We may define `<term xml:id="tdpv" rend="sc">discoursal point of view</term>` as
`<gloss target="#tdpv">the relationship, expressed through discourse structure, between the implied author or some other`
Content model

```xml
<content>
  <macroRef key="macro.phraseSeq"/>
</content>
```

Schema Declaration

```xml
element gloss
{
   att.global.attributes,
   att.declaring.attributes,
   att.translatable.attributes,
   att.typed.attributes,
   att.pointing.attributes,
   att.cReferencing.attributes,
   macro.phraseSeq}
```

<graphic> (graphic) indicates the location of a graphic or illustration, either forming part of a text, or providing an image of it.  

Module core

Attributes Attributes att.global (@xml:id, @n, @xml:lang, @xml:space)
   (att.global.rendition (@rend)) (att.global.linking (@corresp, @next, @prev))
   (att.global.analytic (@ana)) (att.global.facs (@facs)) (att.global.responsibility
   (@cert, @resp)) (att.global.source (@source)) att.media (@width, @height, @scale)
   att.resource (@url) att.declaring (@decls)

Member of model.graphicLike model.titlepagePart

Contained by

analysis: core

core: abbr add addrLine author biblScope cit corr date del editor emph expan foreign
   gloss head hi item label mentioned name note num orig p pubPlace publisher q ref reg
   rs sic soCalled speaker stage term time title unclear

figures: cell figure formula table

header: change distributor edition extent licence

linking: seg

tagdocs: eg

textstructure: byline closer dateline docAuthor docDate docEdition docImprint
   imprimatur opener salute signed titlePage titlePart trailer

May contain

core: desc

Note The mimeType attribute should be used to supply the MIME media type of the image specified by the url attribute.

Within the body of a text, a <graphic> element indicates the presence of a graphic component in the source itself. Within the context of a <facsimile> or
A LIST OF ELEMENTS DESCRIBED

A <sourceDoc> element, however, a <graphic> element provides an additional digital representation of some part of the source being encoded.

Example

```xml
<figure>
  <graphic url="fig1.png"/>
  <head>Figure One: The View from the Bridge</head>
  <figDesc>A Whistleresque view showing four or five sailing boats in the foreground, and a series of buoys strung out between them.</figDesc>
</figure>
```

Example

```xml
<facsimile>
  <surfaceGrp n="leaf1">
    <surface>
      <graphic url="pagel.png"/>
    </surface>
    <surface>
      <graphic url="page2-highRes.png"/>
      <graphic url="page2-lowRes.png"/>
    </surface>
  </surfaceGrp>
</facsimile>
```

Content model

```xml
<content>
  <classRef key="model.descLike"
    minOccurs="0" maxOccurs="unbounded"/>
</content>
```

Schema Declaration

```xml
element graphic
{
  att.global.attributes,
  att.media.attributes,
  att.resourced.attributes,
  att.declaring.attributes,
  model.descLike*
}
```

<group> (group) contains the body of a composite text, grouping together a sequence of distinct texts (or groups of such texts) which are regarded as a unit for some purpose, for example the collected works of an author, a sequence of prose essays, etc. [4. Default Text Structure 4.3.1. Grouped Texts 15.1. Varieties of Composite Text]

Module textstructure

Attributes

```
Attributes att.global ( @xml:id, @n, @xml:lang, @xml:space)
  (att.global.rendition ( @rend )) (att.global.linking ( @corresp, @next, @prev ))
  (att.global.analytic ( @ana )) (att.global.facs ( @facs )) (att.global.responsibility
    ( @cert, @resp )) (att.global.source ( @source )) att.declaring ( @decls ) att.typed ( @type,
  @subtype)
```

Contained by

132
textstructure: group text
May contain
analysis: interp interpGrp
core: gap head index lb milestone note pb
figures: figure
linking: anchor
textstructure: argument byline closer dateline docAuthor docDate epigraph group opener
postscript salute signed text trailer
Example

<!-- Section on Alexander Pope starts -->
<front>
<!-- biographical notice by editor -->
</front>
<group>
<text>
<!-- first poem -->
</text>
<text>
<!-- second poem -->
</text>
</group>
<!-- end of Pope section-->

Content model

<content>
<sequence>
<alternate minOccurs="0" maxOccurs="unbounded">
<classRef key="model.divTop"/>
<classRef key="model.global"/>
</alternate>
<sequence>
<alternate>
<elementRef key="text"/>
<elementRef key="group"/>
</alternate>
<alternate minOccurs="0" maxOccurs="unbounded">
<elementRef key="text"/>
<elementRef key="group"/>
<classRef key="model.global"/>
</alternate>
</sequence>
<classRef key="model.divBottom" minOccurs="0" maxOccurs="unbounded"/>
</content>

Schema Declaration

element group
{
  att.global.attributes,
  att.declaring.attributes,
  att.typed.attributes,
A LIST OF ELEMENTS DESCRIBED


divTop | model.global | text | group

model.divTop

model.global

( ( text | group ), ( text | group | model.global )* ),

model.divBottom


<head>

(heading) contains any type of heading, for example the title of a section, or the heading of a list, glossary, manuscript description, etc. [4.2.1. Headings and Trailers]

Module core

Attributes Attributes att.global ( @xml:id, @m, @xml:lang, @xml:space)

( att.global.rendition ( @rend ) )

( att.global.linking ( @corresp, @next, @prev ) )

( att.global.analytic ( @ana ) )

( att.global.facs ( @facs ) )

( att.global.responsibility ( @cert, @resp ) )

( att.global.source ( @source ) )

att.typed ( @type, @subtype )

att.placement ( @place )

att.written ( @hand )

Member of model.headLike model.pLike.front

Contained by

core: divGen lg list listBibl

figures: figure table

textstructure: argument back body div front group postscript

May contain

analysis: interp interpGrp pc s w

core: abbr add address bibl choice cit corr date del desc emph expan foreign gap gloss

graphic hi index l label lb lg list listBibl mentioned milestone name note num orig ph

ptr q ref reg rs sic soCalled stage term time title unclear

figures: figure formula table

header: idno

linking: anchor seg

tagdocs: att code eg gi ident val

character data

Note The <head> element is used for headings at all levels; software which treats (e.g.) chapter headings, section headings, and list titles differently must determine the proper processing of a <head> element based on its structural position. A <head> occurring as the first element of a list is the title of that list; one occurring as the first element of a <div1> is the title of that chapter or section.

Example The most common use for the <head> element is to mark the headings of sections. In older writings, the headings or incipits may be rather longer than usual in modern works. If a section has an explicit ending as well as a heading, it should be marked as a <trailer>, as in this example:

<div1 n="I" type="book">
  <head>In the name of Christ here begins the first book of the ecclesiastical history of Georgius Florentinus, known as Gregory, Bishop of Tours.</head>
  <div2 type="section">
    <head>In the name of Christ here begins Book I of the history.</head>
    <p>Proposing as I do ...</p>
    <p>From the Passion of our Lord until the death of Saint Martin four hundred and twelve years passed.</p>
  </div2>
</div1>
Here ends the first Book, which covers five thousand, five hundred and ninety-six years from the beginning of the world down to the death of Saint Martin.

Example. When headings are not inline with the running text (see e.g. the heading "Secunda conclusio") they might however be encoded as if. The actual placement in the source document can be captured with the place attribute.

Example The head element is also used to mark headings of other units, such as lists:

With a few exceptions, connectives are equally useful in all kinds of discourse: description, narration, exposition, argument. <list rend="bulleted">
  <head>Connectives</head>
  <item>above</item>
  <item>accordingly</item>
  <item>across from</item>
  <item>adjacent to</item>
  <item>again</item>
  <!-- ... -->
</list>

Content model

```
<content>
  <alternate minOccurs="0" maxOccurs="unbounded">
    <TextNode/>
    <elementRef key="lg"/>
    <classRef key="model.gLike"/>
    <classRef key="model.phrase"/>
    <classRef key="model.inter"/>
    <classRef key="model.lLike"/>
    <classRef key="model.global"/>
  </alternate>
</content>
```

Schema Declaration

```
element head
{
  att.global.attributes,
  att.typed.attributes,
}```
A LIST OF ELEMENTS DESCRIBED

att.placement.attributes,
att.written.attributes,
{
  text
  | lg | model.gLike | model.phrase | model.inter | model.LLike | model.global
}

<hi> (highlighted) marks a word or phrase as graphically distinct from the surrounding text, for reasons concerning which no claim is made. 3.3.2.2. Emphatic Words and Phrases 3.3.2. Emphasis, Foreign Words, and Unusual Language

Module core
Attributes Attributes att.global (@xml:id, @n, @xml:lang, @xml:space)
  (att.global.rendition (@rend)) (att.global.linking (@corresp, @next, @prev))
  (att.global.analytic (@ana)) (att.global.facs (@facs)) (att.global.responsibility (@cert, @resp)) (att.global.source (@source))

Member of model.hiLike

Contained by

analysis: s w

core: abbr add address bibl biblScope corr date del desc editor emph expan
  foreign gloss head hi item itemList label mentioned name note num orig p pubPlace
  publisher q ref reg resp rs sic soCalled speaker stage term time title unclear

figures: cell figDesc formula

header: authority catDesc change classCode creation distributor edition extent funder
  language licence principal sponsor

linking: seg

tagdocs: eg

textstructure: byline closer dateline docAuthor docDate docEdition docImprint
  imprimatur opener salute signed titlePart trailer

May contain

analysis: interp interpGrp pc s w

core: abbr add address bibl choice cit corr date del desc editor emph expan foreign gap gloss
  graphic hi index item itemList label lb lg list listBibl mentioned milestone name note num orig ph
  ptr q ref reg rs sic soCalled stage term time title unclear

figures: figure formula table

header: idno

linking: anchor seg

tagdocs: att code eg gi ident val

character data

Example

<hi rend="gothic">And this Indenture further witnesseth</hi>
that the said <hi rend="italic">Walter Shandy</hi>, merchant, in consideration of the said intended marriage ...

Content model

<content>
  <macroRef key="macro.paraContent"/>
</content>
<ident> (identifier) contains an identifier or name for an object of some kind in a formal language. <ident> is used for tokens such as variable names, class names, type names, function names etc. in formal programming languages. [22.1.1. Phrase Level Terms]

Attributes Attributes att.global (@xml:id, @n, @xml:lang, @xml:space) (att.global.rendition (@rend)) (att.global.linking (@corresp, @next, @prev)) (att.global.analytic (@ana)) (att.global.facs (@facs)) (att.global.responsibility (@cert, @resp)) (att.global.source (@source)) att.typed (@type, @subtype)

Member of model.emphLike

Contained by

- analysis: 
- core: abbr add addrLine author bibl biblScope corr date del desc editor emph expan foreign gloss head hi item label mentioned name note num orig p pubPlace publisher q ref reg resp rs sic soCalled speaker stage term time title unclear
- figures: cell figDesc
- header: authority catDesc change classCode creation distributor edition extent funder language licence principal sponsor
- linking: seg
- tagdocs: eg
- textstructure: byline closer dateline docAuthor docDate docEdition docImprint imprimatur opener salute signed titlePart trailer

May contain Character data only

**Note** In running prose, this element may be used for any kind of identifier in any formal language. It should not be used for element and attribute names in XML, for which the special elements <gi> and <att> are provided.

**Example**

```xml
<ident type="ns">http://www.tei-c.org/ns/Examples</ident>
```

**Content model** <content> <textNode/></content>

**Schema Declaration**

```xml
element ident { att.global.attributes, att.typed.attributes, text }
```

<idno> (identifier) supplies any form of identifier used to identify some object, such as a bibliographic item, a person, a title, an organization, etc. in a standardized way. [13.3.1. Basic Principles 2.2.4. Publication, Distribution, Licensing, etc. 2.2.5. The Series Statement 3.12.2.4. Imprint, Size of a Document, and Reprint Information]

**Module** header
Attributes (att.global (@xml:id, @n, @xml:lang, @xml:space)
  (att.global.rendition (@rend)) (att.global.linking (@corresp, @next, @prev))
  (att.global.analytic (@ana)) (att.global.facs (@facs)) (att.global.responsibility
  (@cert, @resp)) (att.global.source (@source)) att.sortable (@sortKey) att.datable
  (@period) (att.datable.w3c (@when))) att.typed (-----, @subtype)

@type categorizes the identifier, for example as an ISBN, Social Security number,
etc.

Derived from att.typed

Status Optional

Datatype teidata.enumerated

Suggested values include:

**ISBN** International Standard Book Number:
a 13- or (if assigned prior to 2007) 10-digit identifying number
assigned by the publishing industry to a published book or
similar item, registered with the International ISBN Agency.

**ISSN** International Standard Serial Number: an eight-digit
number to uniquely identify a serial publication.

**DOI** Digital Object Identifier: a unique string of letters and
numbers assigned to an electronic document.

**URI** Uniform Resource Identifier: a string of characters to
uniquely identify a resource which usually contains indication of
the means of accessing that resource, the name of its host, and
its filepath.

**VIAF** A data number in the Virtual Internet Authority File
assigned to link different names in catalogs around the world for
the same entity.

**ESTC** English Short-Title Catalogue number: an identifying
number assigned to a document in English printed in the
British Isles or North America before 1801.

**OCLC** OCLC control number (record number) for the union
catalog record in WorldCat, a union catalog for member
libraries in the Online Computer Library Center global
cooperative.

Member of model.publicationStmtPart.detail

Contained by

analysis: 8

header: abbr add addrLine address author bibl biblScope corr date del desc editor emph
  expan foreign gloss head hi item label mentioned note num orig p pubPlace
  publisher q ref reg resp rs sic soCalled speaker stage term time title unclear

figures: cell figDesc

head: authority catDesc change classCode creation distributor edition extent funder
  idno language licence principal publicationStmt seriesStmt sponsor

linking: seg

tagdocs: eg

textstructure: byline closer dateline docAuthor docDate docEdition docImprint
  imprimatur opener salute signed titlePart trailer

May contain

header: idno

character data
Note: `<idno>` should be used for labels which identify an object or concept in a formal cataloguing system such as a database or an RDF store, or in a distributed system such as the World Wide Web. Some suggested values for `type` on `<idno>` are ISBN, ISSN, DOI, and URI.

Example

```xml
<idno type="ISBN">978-1-906964-22-1</idno>
<idno type="ISSN">0143-3385</idno>
<idno type="DOI">10.1000/123</idno>
<idno type="URI">http://www.worldcat.org/oclc/185922478</idno>
<idno type="LT">Thomason Tract E.537(17)</idno>
<idno type="Wing">C695</idno>
<idno type="oldCat">
  <g ref="#sym">345</g>
</idno>
```

In the last case, the identifier includes a non-Unicode character which is defined elsewhere by means of a `<glyph>` or `<char>` element referenced here as `#sym`.

Content model

```xml
<content>
  <alternate minOccurs="0" maxOccurs="unbounded">
    <textNode/>
    <classRef key="model.gLike"/>
    <elementRef key="idno"/>
  </alternate>
</content>
```

Schema Declaration

```xml
element idno
{
  att.global.attributes,
  att.sortable.attributes,
  att.datable.attributes,
  att.typed.attribute.subtype,
  attribute type
  {
    "ISBN" | "ISSN" | "DOI" | "URI" | "VIAF" | "ESTC" | "OCLC"
  },
  ( text | model.gLike | idno )*
}
```

<imprimatur> (imprimatur) contains a formal statement authorizing the publication of a work, sometimes required to appear on a title page or its verso. [4.6. Title Pages]

Module textstructure

Attributes

att.global (@xml:id, @n, @xml:lang, @xml:space)
  (att.global.rendition (@rend)) (att.global.linking (@corresp, @next, @prev))
  (att.global.analytic (@ana)) (att.global.facs (@facs)) (att.global.responsibility (@cert, @resp)) (att.global.source (@source))

Member of model.titlepagePart

Contained by
textstructure: titlePage

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A LIST OF ELEMENTS DESCRIBED

May contain
analysis: interp interpGrp pc s w
core: abbr add addrLine address author bibl biblScope cit cori date del desc emph expan foreign gap gloss graphic hi index lb lg list listBibl mentioned milestone name note num orig pb ptr q ref reg rs sic soCalled stage term time title unclear
figures: figure formula table
header: idno
linking: anchor seg
tagdocs: att code eg gi ident val
character data

Example

<imprimatur>Licensed and entered according to Order.</imprimatur>

Content model

```xml
<content>
  <macroRef key="macro.paraContent"/>
</content>
```

Schema Declaration

```
<index>
  (index entry) marks a location to be indexed for whatever purpose. [3.9.2.
  Index Entries]

  Module core
  Attributes Attributes att.global (@xml:id, @n, @xml:lang, @xml:space)
  (att.global.rendition (@rend)) (att.global.linking (@corresp, @next, @prev))
  (att.global.analytic (@ana)) (att.global.facets (@facets)) (att.global.responsibility
  (@cert, @resp)) (att.global.source (@source)) att.spanning (@spanTo)
  @indexName a single word which follows the rules defining a legal XML name
  (see http://www.w3.org/TR/REC-xml/#dt-name), supplying a name
  to specify which index (of several) the index entry belongs to.
  Status Optional
  Datatype teidata.name
  Note This attribute makes it possible to create multiple indexes for a
  text.

  Member of model.global.meta

  Contained by
  analysis: s w
  core: abbr add addrLine address author bibl biblScope cit cori date del editor emph
  expan foreign gloss head hi index item lb lg list listBibl mentioned milestone name note num orig
  pb pubPlace publisher q ref reg resp rs sic soCalled sp speaker stage term time title
  unclear
  figures: cell figure table
  header: authority change classCode distributor edition extent funder language licence
  principal sponsor

```

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Example

David's other principal backer, Josiah ha-Kohen
<index indexName="NAMES">
  <term>Josiah ha-Kohen b. Azarya</term>
</index> b. Azarya, son of one of the last gaons of Sura
<index indexName="PLACES">
  <term>Sura</term>
</index> was David's own first cousin.

Content model

```
<content>
  <sequence minOccurs="0" maxOccurs="unbounded">
    <elementRef key="term"/>
    <elementRef key="index" minOccurs="0"/>
  </sequence>
</content>
```

Schema Declaration

```xml
<element index
  { att.global.attributes, att.spanning.attributes, attribute indexName \{ text \}?,
    ( term, index? )* }
```

<interp> (interpretation) summarizes a specific interpretative annotation which can be linked to a span of text. [17.3. Spans and Interpretations]

Module analysis

Attributes Attributes att.global (@xml:id, @n, @xml:lang, @xml:space)
  (att.global.rendition (@rend)) (att.global.linking (@corresp, @next, @prev))
  (att.global.analytic (@ana)) (att.global.facs (@facs)) (att.global.responsibility
  (@cert, @resp)) (att.global.source (@source)) att.interpLike (@inst) att.typed (image,
  @subtype)

@type indicates what kind of phenomenon is being noted in the passage.

Status Recommended

Datatype teidata.enumerated

Sample values include: image identifies an image in the passage.

  character identifies a character associated with the passage.

  theme identifies a theme in the passage.

  allusion identifies an allusion to another text.
A LIST OF ELEMENTS DESCRIBED

Member of model.global.meta

Contained by analysis: interpGrp

Core: abbr add addrLine address author bibl biblScope cit corr date del editor emph expan foreign gloss head hi item lg label lst list mentioned name num orig p pubPlace publisher q ref reg resp rs sic soCalled sp speaker stage term time title unclear

Figures: cell figure table

Header: authority change classCode distributor edition extent funder language licence principal sponsor

Linking: seg

tagDocs: eg

textStructure: argument back body byline closer dateline div docAuthor docDate docEdition docImprint docTitle epigraph front group imprimatur opener postscript salute signed text titlePage titlePart trailer

May contain core: desc

Character data

Note Generally, each <interp> element carries an xml:id attribute. This permits the encoder to explicitly associate the interpretation represented by the content of an <interp> with any textual element through its ana attribute.

Alternatively (or, in addition) an <interp> may carry an inst attribute which points to one or more textual elements to which the analysis represented by the content of the <interp> applies.

Example

<interp type="structuralunit" xml:id="ana_am">aftermath</interp>

Content model

```
<content>
  <alternate minOccurs="0" maxOccurs="unbounded">
    <textNode/>
    <classRef key="model.gLike"/>
    <classRef key="model.desclike"/>
    <classRef key="model.certLike"/>
  </alternate>
</content>
```

Schema Declaration

```
element interp
{
  att.global.attributes,
  att.interpLike.attribute.inst,
  att.typed.attribute_subtype,
  attribute type { text }?,
  ( text | model.gLike | model.desclike | model.certLike )*
}
```
<interpGrp>

(interpretation group) collects together a set of related interpretations which share responsibility or type. [17.3. Spans and Interpretations]

Module analysis

Attributes Attributes att.global (@xml:id, @n, @xml:lang, @xml:space)
   (att.global.rendition (@rend)) (att.global.linking (@corresp, @next, @prev))
   (att.global.analytic (@ana)) (att.global.facs (@facs)) (att.global.responsibility
   (@cert, @resp)) (att.global.source (@source)) att.interpLike (@inst) att.typed (@type, @subtype)

@type indicates what kind of phenomenon is being noted in the passage.
Status Recommended
Datatype teidata.enumerated
Sample values include: image identifies an image in the passage.
character identifies a character associated with the passage.
theme identifies a theme in the passage.
allusion identifies an allusion to another text.

Member of model.global.meta

Contained by

analysis: s

core: abbr add addrLine address author bibl biblScope cit corr date del editor emph
   expan foreign gloss head hi item l label lg list mentioned name note num orig p
   pubPlace publisher q ref reg resp rs sic soCalled sp speaker stage term time title
   unclear

figures: cell figure table

header: authority change classCode distributor edition extent funder language licence
   principal sponsor

linking: seg

tagdocs: eg

textstructure: argument back body byline closer dateline div docAuthor docDate
docEdition docImprint docTitle epigraph front group imprimatur opener postscript
   salute signed text titlePage titlePart trailer

May contain

analysis: interp

core: desc

Note Any number of <interp> elements.

Example

<interpGrp resp="#TMA"
type="structuralunit">
   <desc>basic structural organization</desc>
   <interp xml:id="I1">introduction</interp>
   <interp xml:id="I2">conflict</interp>
   <interp xml:id="I3">climax</interp>
   <interp xml:id="I4">revenge</interp>
   <interp xml:id="I5">reconciliation</interp>
   <interp xml:id="I6">aftermath</interp>
</interpGrp>

<bibl xml:id="TMA">

<!-- bibliographic citation for source of this interpretive framework -->
</bibl>
Content model

```xml
<content>
  <sequence>
    <classRef key="model.descLike" minOccurs="0" maxOccurs="unbounded"/>
    <elementRef key="interp" minOccurs="1" maxOccurs="unbounded"/>
  </sequence>
</content>
```

Schema Declaration

```xml
element interpGrp
{
  att.global.attributes,
  att.interpLike.attribute.inst,
  att.typed.attribute.subtype,
  attribute type { text }?,
  ( model.descLike*, interp+ )
}
```

---

**<item>** (item) contains one component of a list. [3.8. Lists][2.6. The Revision Description]

**Module** core

Attributes

<table>
<thead>
<tr>
<th>att.global</th>
<th>att.interpLike.attribute.inst</th>
<th>att.typed.attribute.subtype</th>
</tr>
</thead>
<tbody>
<tr>
<td>@xml:id</td>
<td>@n</td>
<td>@xml:lang</td>
</tr>
<tr>
<td>@xml:lang</td>
<td>@xml:space</td>
<td></td>
</tr>
<tr>
<td>@rend</td>
<td>@corresp</td>
<td>@next</td>
</tr>
<tr>
<td>@corresp</td>
<td>@cert</td>
<td>@resp</td>
</tr>
<tr>
<td>@name</td>
<td>@source</td>
<td>@sortKey</td>
</tr>
<tr>
<td>@rend</td>
<td>@renders</td>
<td></td>
</tr>
<tr>
<td>@corresp</td>
<td>@correspond</td>
<td></td>
</tr>
<tr>
<td>@next</td>
<td>@nextCorrespond</td>
<td></td>
</tr>
<tr>
<td>@prev</td>
<td>@prevCorrespond</td>
<td></td>
</tr>
<tr>
<td>@ana</td>
<td>@analytic</td>
<td></td>
</tr>
<tr>
<td>@facs</td>
<td>@facsCorrespond</td>
<td></td>
</tr>
<tr>
<td>@cert</td>
<td>@certCorrespond</td>
<td></td>
</tr>
<tr>
<td>@resp</td>
<td>@respCorrespond</td>
<td></td>
</tr>
<tr>
<td>@source</td>
<td>@sourceCorrespond</td>
<td></td>
</tr>
<tr>
<td>@sortKey</td>
<td>@sortKeyCorrespond</td>
<td></td>
</tr>
</tbody>
</table>

**Contained by**
- core: list

**May contain**
- interp
- interpGrp
- pc
- s
- w
- abbr
- add
- address
- bibl
- choice
- cit
- corr
- date
- del
- desc
- emph
- expan
- foreign
- gap
- gloss
- graphic
- hi
- index
- label
- lb
- lg
- list
- listBibl
- mentioned
- milestone
- name
- note
- num
- orig
- p
- pb
- ptr
- q
- ref
- reg
- rs
- sic
- soCalled
- sp
- stage
- term
- time
- title
- unclear

**figures:**
- figure
- formula
- table

**header:**
- idno

**linking:**
- anchor
- seg

**tagdocs:**
- att
code
- eg
gi
ident
- val

**character data**

**Note**
May contain simple prose or a sequence of chunks.

Whatever string of characters is used to label a list item in the copy text may be used as the value of the global n attribute, but it is not required that numbering be recorded explicitly. In ordered lists, the n attribute on the <item> element is by definition synonymous with the use of the <label> element to record the enumerator of the list item. In glossary lists, however, the term being defined should be given with the <label> element, not n.

**Example**
Here begin the chapter headings of Book IV:

1. The death of Queen Clotild.
2. How King Lothar wanted to appropriate one third of the Church revenues.
3. The wives and children of Lothar.
4. The Counts of the Bretons.
5. Saint Gall the Bishop.
6. The priest Cato.

...
A LIST OF ELEMENTS DESCRIBED

Example

<keywords>
  <term>Fermented beverages</term>
  <term>Central Andes</term>
  <term>Schinus molle</term>
  <term>Molle beer</term>
  <term>Indigenous peoples</term>
  <term>Ethnography</term>
  <term>Archaeology</term>
</keywords>

Content model

<content>
  <alternate>
    <elementRef key="term" minOccurs="1" maxOccurs="unbounded"/>
    <elementRef key="list"/>
  </alternate>
</content>

Schema Declaration

element keywords
{
att.global.attributes,
attribute scheme { text }?,
( term+ | list )
}

<l>
(verse line) contains a single, possibly incomplete, line of verse.[3.13.1. Core Tags for Verse][3.13. Passages of Verse or Drama][7.2.5. Speech Contents]

Module core

Attributes
att.global (@xml:id, @a, @xml:lang, @xml:space)
( att.global.rendition (@rend))
( att.global.linking (@corresp, @next, @prev))
( att.global.analytic (@ana))
( att.global.facs (@facs))
( att.global.responsibility (@cert, @resp))
( att.global.source (@source))
att.fragmentable (@part)

Member of model.lLike

Contained by

core: add corr del emph head hi item lg note orig q q ref reg sic sp stage title unclear
figures: cell figure
header: change licence
linking: seg
textstructure: argument body div docEdition epigraph imprimatur postscript salute signed titlePart trailer

May contain
Example

```xml
<l met="/x/x/x/x/x/" real="/x/x/x/x/x/">Shall I compare thee to a summer’s day?</l>
```

Schematron <s:report test="ancestor::tei:l[not(.//tei:note//tei:l[. = current()])]]">Abstract model violation: Lines may not contain lines or lg elements. </s:report>

Content model

```xml
<content>
  <alternate minOccurs="0" maxOccurs="unbounded">
    <textNode/>
    <classRef key="model.gLike"/>
    <classRef key="model.phrase"/>
    <classRef key="model.inter"/>
    <classRef key="model.global"/>
  </alternate>
</content>
```

Schema Declaration

```xml
element l
{
  att.global.attributes, att.fragmentable.attributes, (text | model.gLike | model.phrase | model.inter | model.global )*
}
```

<label> (label) contains any label or heading used to identify part of a text, typically but not exclusively in a list or glossary. [3.8. Lists]

Module core

Attributes

Labels

Attributes

att.global ( @xml:id, @n, @xml:lang, @xml:space)
(att.global.rendition ( @rend )) (att.global.linking ( @corresp, @next, @prev ))
(att.global.analytic ( @ana )) (att.global.facFile ( @facs )) (att.global.responsibility
 ( @cert, @resp )) (att.global.source ( @source )) att.typed ( @type, @subtype )
att.placement ( @place ) att.written ( @hand )

Member of model.labelLike

Contained by

core:  add corr del desc emph head hi item lg list note orig p q ref reg rs sic stage title unclear
figures:  cell figDesc figure

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A LIST OF ELEMENTS DESCRIBED

Example Labels are commonly used for the headwords in glossary lists; note the use of the global xml:lang attribute to set the default language of the glossary list to Middle English, and identify the glosses and headings as modern English or Latin:

```xml
<html xmlns="http://www.w3.org/1999/xhtml">
<head xml:lang="en">Vocabulary</head>
<headLabel xml:lang="en">Middle English</headLabel>
<headItem xml:lang="en">New English</headItem>
<label>nu</label>
<item xml:lang="en">now</item>
<label>hude</label>
<item xml:lang="en">loudly</item>
<label>bloweth</label>
<item xml:lang="en">blooms</item>
<label>med</label>
<item xml:lang="en">meadow</item>
<label>wude</label>
<item xml:lang="en">wood</item>
<label>awe</label>
<item xml:lang="en">ewe</item>
<label>lhouth</label>
<item xml:lang="en">lows</item>
<label>sterteth</label>
<item xml:lang="en">bounds, frisks (cf. <cit>
<ref>Chaucer, K.T.644</ref>
<quote>a courser, <term>sterting</term> as the fyr</quote>
</cit>
</item>
<label>verteth</label>
<item xml:lang="la">pedit</item>
<label>murie</label>
<item xml:lang="en">merrily</item>
<label>swik</label>
<item xml:lang="en">cease</item>
<label>naver</label>
<item xml:lang="en">never</item>
</list>
</html>
```

Example Labels may also be used to record explicitly the numbers or letters which mark list items in ordered lists, as in this extract from Gibbon’s Autobiography. In this usage the <label> element is synonymous with the n attribute on the <item> element:
I will add two facts, which have seldom occurred in the composition of six, or at least of five quartos.

Example Labels may also be used for other structured list items, as in this extract from the journal of Edward Gibbon:

Example Labels may also be used to represent a label or heading attached to a paragraph or sequence of paragraphs not treated as a structural division, or to a group of verse lines. Note that, in this case, the \textlt{label} element appears within the \textlt{p} or \textlt{lg} element, rather than as a preceding sibling of it.

In this example the text of the label appears in the right hand margin of the original source, next to the paragraph it describes, but approximately in the middle of it. If so desired the type attribute may be used to distinguish different categories of label.

Content model
A LIST OF ELEMENTS DESCRIBED

Schema Declaration

```

```

</langUsage> (language usage) describes the languages, sublanguages, registers, dialects, etc., represented within a text. [2.4.2. Language Usage 2.4. The Profile Description 15.3.2. Declarable Elements]

Module header

Attributes

att.global (@xml:id, @n, @xml:lang, @xml:space)
(att.global.rendition (@rend))
(att.global.linking (@corresp, @next, @prev))
(att.global.analytic (@ana))
(att.global.facs (@facs))
(att.global.responsibility (@cert, @resp))
(att.global.source (@source))
att.declarable (@default)

Member of model.profileDescPart

Contained by

header: profileDesc

May contain

core: p

header: language

Example

```
</langUsage>

Content model

```

```

Schema Declaration

```

```

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<language> (language) characterizes a single language or sublanguage used within a text. [2.4.2. Language Usage]

Module header

Attributes Attributes att.global (@xml:id, @n, @xml:lang, @xml:space)
(att.global.rendition (@rend)) (att.global.linking (@corresp, @next, @prev))
(att.global.analytic (@ana)) (att.global.facs (@facs)) (att.global.responsibility
(@cert, @resp)) (att.global.source (@source))

@ident (identifier) Supplies a language code constructed as defined in BCP 47
which is used to identify the language documented by this element, and
which is referenced by the global xml:lang attribute.

Status Required

Datatype teidata.language

@usage specifies the approximate percentage (by volume) of the text which uses
this language.

Status Optional

Datatype nonNegativeInteger

Contained by: langUsage

May contain

analysis: interp interpGrp

core: abbr address choice date emph expan foreign gap gloss hi index lb index
mentioned milestone name note num pb ptr q ref rs soCalled term time title

figures: figure

header: idno

linking: anchor

tagdocs: att code gi ident val

character data

Note Particularly for sublanguages, an informal prose characterization should be supplied
as content for the element.

Example

<langUsage>
  <language ident="en-US" usage="75">modern American English</language>
  <language ident="i-az-Arab" usage="20">Azerbaijani in Arabic
    script</language>
  <language ident="x-lap" usage="05">Pig Latin</language>
</langUsage>

Content model

<content>
  <macroRef key="macro.phraseSeq.limited"/>
</content>

Schema Declaration

element language
{
  att.global.attributes,
  attribute ident { text },
  attribute usage { text }?,
  macro.phraseSeq.limited
}
<lb> (line beginning) marks the beginning of a new (typographic) line in some edition or version of a text. [3.11.3. Milestone Elements 7.2.5. Speech Contents]

Module core

Attributes

<table>
<thead>
<tr>
<th>Attribute</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>att.global</td>
<td>@xml:id, @n, @xml:lang, @xml:space</td>
</tr>
<tr>
<td>att.global.rendition</td>
<td>@rend</td>
</tr>
<tr>
<td>att.global.linking</td>
<td>@corresp, @next, @prev</td>
</tr>
<tr>
<td>att.global.analytic</td>
<td>@ana</td>
</tr>
<tr>
<td>att.global.facs</td>
<td>@facs</td>
</tr>
<tr>
<td>att.global.responsibility</td>
<td>@cert, @resp</td>
</tr>
<tr>
<td>att.global.source</td>
<td>@source</td>
</tr>
<tr>
<td>att.global.rendition</td>
<td>@rend</td>
</tr>
<tr>
<td>att.global.linking</td>
<td>@corresp, @next, @prev</td>
</tr>
<tr>
<td>att.global.analytic</td>
<td>@ana</td>
</tr>
<tr>
<td>att.global.facs</td>
<td>@facs</td>
</tr>
<tr>
<td>att.global.responsibility</td>
<td>@cert, @resp</td>
</tr>
<tr>
<td>att.global.source</td>
<td>@source</td>
</tr>
<tr>
<td>att.typed</td>
<td>@type, @subtype</td>
</tr>
<tr>
<td>att.edition</td>
<td>@ed, @edRef</td>
</tr>
<tr>
<td>att.spanning</td>
<td>@spanTo</td>
</tr>
<tr>
<td>att.breaking</td>
<td>@break</td>
</tr>
</tbody>
</table>

Member of model.milestoneLike

Contained by

- analysis:
- core:
- figures:
- header:
- linking:
- tagdocs:
- textstructure:

May contain Empty element

Note By convention, <lb> elements should appear at the point in the text where a new line starts. The n attribute, if used, indicates the number or other value associated with the text between this point and the next <lb> element, typically the sequence number of the line within the page, or other appropriate unit. This element is intended to be used for marking actual line breaks on a manuscript or printed page, at the point where they occur; it should not be used to tag structural units such as lines of verse (for which the <l> element is available) except in circumstances where structural units cannot otherwise be marked.

The type attribute may be used to characterize the line break in any respect. The more specialized attributes break, ed, or edRef should be preferred when the intent is to indicate whether or not the line break is word-breaking, or to note the source from which it derives.

Example This example shows typographical line breaks within metrical lines, where they occur at different places in different editions:

```
<lb>Of Mans First Disobedience,<lb ed="1674"/> and<lb ed="1667"/> the Fruit/<lb/>
<lb>Of that Forbidden Tree, whose<lb ed="1667 1674"/> mortal tast<lb/></lb>
<lb>Brought Death into the World,<lb ed="1667"/> and all<lb ed="1674"/> our woe,<lb></lb>
```

Example This example encodes typographical line breaks as a means of preserving the visual appearance of a title page. The break attribute is used to show that the line break does not (as elsewhere) mark the start of a new word.
With Additions, ne-<lb break="no"/>ver before Printed.

Content model  
<content> <empty/></content>

Schema Declaration

```xml
<element lb {
   att.global.attributes,
   att.typed.attributes,
   att.edition.attributes,
   att.spanning.attributes,
   att.breaking.attributes,
   empty
}
```

(line group) contains one or more verse lines functioning as a formal unit, e.g. a stanza, refrain, verse paragraph, etc. [3.13.1. Core Tags for Verse 3.13. Passages of Verse or Drama 7.2.5. Speech Contents]

Module core

Attributes Attributes att.global (@xml:id, @n, @xml:lang, @xml:space)
   (att.global.rendition (@rend)) (att.global.linking (@corresp, @next, @prev))
   (att.global.analytic (@ana)) (att.global.facs (@facs)) (att.global.responsibility (@cert, @resp))
   (att.global.source (@source)) att.divLike (@org, @sample)
   (att.fragmentable (@part)) att.typed (@type, @subtype) att.declaring (@decls)

Member of macro.paraContent model.divPart

Contained by

core: add corr del emph head hi item lg note orig p q ref reg sic sp stage title unclear
figures: cell figure
header: change licence
linking: seg

textstructure: argument body div docEdition epigraph imprimatur postscript salute
   signed titlePart trailer

May contain

analysis: interp interpGrp

core: desc gap head index label lb lg milestone note pb stage
figures: figure

May contain

analysis: interp interpGrp

core: desc gap head index label lb lg milestone note pb stage
figures: figure

Note contains verse lines or nested line groups only, possibly prefixed by a heading.

Example

```xml
<lg type="free">
 <l>Let me be my own fool</l>
 <l>of my own making, the sum of it</l>
</lg>
```

<lg type="free">
A LIST OF ELEMENTS DESCRIBED

is equivocal.
One says of the drunken farmer:
leave him lay off it. And this is
the explanation.

Schematron
An lg element must contain at least one child l, lg, or gap element.
Abstract model violation: Lines may not contain line groups.

Content model

Schema Declaration

element lg
{
  att.global.attributes,
  att.divLike.attributes,
  att.typed.attributes,
  att.declaring.attributes,
    (model.divTop | model.global)*,
    (model.lLike | model.stageLike | model.labelLike | lg),
    (model.lLike | model.stageLike | model.labelLike | model.global | lg)*,
    (model.divBottom, model.global)*)
<licence> contains information about a licence or other legal agreement applicable to the text. [2.2.4. Publication, Distribution, Licensing, etc.]

Module header

Attributes Attributes att.global (xml:id, @n, @xml:lang, @xml:space)
(att.global.rendition (@rend)) (att.global.linking (@corresp, @next, @prev))
(att.global.analytic (@ana)) (att.global.facs (@facs)) (att.global.responsibility
(cert, @resp)) (att.global.source (@source)) att.pointing (@targetLang, @target,
@evaluate) att.datable (@period) att.datable.w3c (@when)

Member of model.availabilityPart

Contained by

header: availability

May contain

analysis: interp interpGrp pc ps w

core: abbr add address bibl choice cit corr date del desc emph expan foreign gap gloss
graphic hi index lb lg list listBibl mentioned milestone name note num orig p pb
ptr q ref reg rs sic soCalled sp stage term time title unclear

figures: figure formula table

header: idno

linking: anchor seg

tagdocs: att code eg gi ident val

character data

Note A <licence> element should be supplied for each licence agreement applicable to the text in question. The target attribute may be used to reference a full version of the licence. The when, notBefore, notAfter, from or to attributes may be used in combination to indicate the date or dates of applicability of the licence.

Example

<licence target="http://www.nzetc.org/tm/scholarly/tei-NZETC-Help.html#licensing">
Licence: Creative Commons Attribution-Share Alike 3.0 New Zealand Licence
</licence>

Example

<availability>
<licence target="http://creativecommons.org/licenses/by/3.0/
notBefore="2013-01-01">
<p>The Creative Commons Attribution 3.0 Unported (CC BY 3.0) Licence applies to this document.</p>
</licence>
</availability>

Content model

<content>
<macroRef key="macro.specialPara"/>
</content>
A LIST OF ELEMENTS DESCRIBED

Schema Declaration

```xml
<list>
(list) contains any sequence of items organized as a list. [3.8. Lists]
</list>
```

Module core

Attributes

- att.global
  - @xml:id
  - @n
  - @xml:lang
  - @xml:space
- att.global.rendition
  - @rend
- att.global.linking
  - @corresp
  - @next
  - @prev
- att.global.analytic
  - @ana
- att.global.facs
  - @facs
- att.global.responsibility
  - @cert
  - @resp
- att.global.source
  - @source
- att.sortable
  - @sortKey
- att.typed
  - type
  - @subtype

@type (type) describes the nature of the items in the list.

- Derived from att.typed
- Status Optional
- Datatype teidata.enumerated

Suggested values include:

- gloss (gloss) each list item glosses some term or concept, which is given by a `<label>` element preceding the list item.
- index (index) each list item is an entry in an index such as the alphabetical topical index at the back of a print volume.
- instructions (instructions) each list item is a step in a sequence of instructions, as in a recipe.
- litany (litany) each list item is one of a sequence of petitions, supplications or invocations, typically in a religious ritual.
- syllogism (syllogism) each list item is part of an argument consisting of two or more propositions and a final conclusion derived from them.

Note Previous versions of these Guidelines recommended the use of type on `<list>` to encode the rendering or appearance of a list (whether it was bulleted, numbered, etc.). The current recommendation is to use the rend or style attributes for these aspects of a list, while using type for the more appropriate task of characterizing the nature of the content of a list.

The formal syntax of the element declarations allows `<label>` tags to be omitted from lists tagged `<list type="gloss">`; this is however a semantic error.

Member of model.listLike

Contained by

- core: add, corr, del, desc, emph, head, hi, item, l, note, orig, p, q, ref, reg, sic, sp, stage, title, unclear
- figures: cell, figDesc, figure
- header: change, keywords, licence, revisionDesc, sourceDesc
- linking: seg
Example The following example treats the short numbered clauses of Anglo-Saxon legal codes as lists of items. The text is from an ordinance of King Athelstan (924-939):

```xml
<div1 type="section">
  <head>Athelstan's Ordinance</head>
  <list rend="numbered">
    <item n="1">Concerning thieves. First, that no thief is to be spared who is caught with the stolen goods, [if he is] over twelve years and [if the value of the goods is] over eightpence. <list rend="numbered">
      <item n="1.1">And if anyone does spare one, he is to pay for the thief with his wergild — and the thief is to be no nearer a settlement on that account — or to clear himself by an oath of that amount.</item>
      <item n="1.2">If, however, he [the thief] wishes to defend himself or..."
to escape, he is not to be spared [whether younger or older than twelve].</item>

<item n="1.3">If a thief is put into prison, he is to be in prison 40 days, and he may then be redeemed with 120 shillings; and the kindred are to stand surety for him that he will desist for ever.</item>

<item n="1.4">And if he steals after that, they are to pay for him with his wergild, or to bring him back there.</item>

<item n="1.5">And if he steals after that, they are to pay for him with his wergild, whether to the king or to him to whom it rightly belongs; and everyone of those who supported him is to pay 120 shillings to the king as a fine.</item>

</list>

Concerning lordless men. And we pronounced about these lordless men, from whom no justice can be obtained, that one should order their kindred to fetch back such a person to justice and to find him a lord in public meeting.

<list rend="numbered">
<item n="2.1">And if they then will not, or cannot, produce him on that appointed day, he is then to be a fugitive afterwards, and he who encounters him is to strike him down as a thief.</item>

<item n="2.2">And he who harbours him after that, is to pay for him with his wergild or to clear himself by an oath of that amount.</item>

</list>

Concerning the refusal of justice. The lord who refuses justice and upholds his guilty man, so that the king is appealed to, is to repay the value of the goods and 120 shillings to the king; and he who appeals to the king before he demands justice as often as he ought, is to pay the same fine as the other would have done, if he had refused him justice.

<list rend="numbered">
<item n="3.1">And the lord who is an accessory to a theft by his slave, and it becomes known about him, is to forfeit the slave and be liable to his wergild on the first occasion; if he does it more often, he is to be liable to pay all that he owns.</item>

<item n="3.2">And likewise any of the king's treasurers or of our reeves, who has been an accessory of thieves who have committed theft, is to liable to the same.</item>

</list>

Concerning treachery to a lord. And we have pronounced concerning treachery to a lord, that he [who is accused] is to forfeit his life if he cannot deny it or is afterwards convicted at the three-fold ordeal.
Note that nested lists have been used so the tagging mirrors the structure indicated by the two-level numbering of the clauses. The clauses could have been treated as a one-level list with irregular numbering, if desired.

**Example**

```html
<p>These decrees, most blessed Pope Hadrian, we propounded in the public council ... and they confirmed them in our hand in your stead with the sign of the Holy Cross, and afterwards inscribed with a careful pen on the paper of this page, affixing thus the sign of the Holy Cross.

<list rend="simple">
  <item>I, Eanbald, by the grace of God archbishop of the holy church of York, have subscribed to the pious and catholic validity of this document with the sign of the Holy Cross.</item>
  <item>I, Ælfwold, king of the people across the Humber, consenting have subscribed with the sign of the Holy Cross.</item>
  <item>I, Tilberht, prelate of the church of Hexham, rejoicing have subscribed with the sign of the Holy Cross.</item>
  <item>I, Higbald, bishop of the church of Lindisfarne, obeying have subscribed with the sign of the Holy Cross.</item>
  <item>I, Ethelbert, bishop of Candida Casa, suppliant, have subscribed with the sign of the Holy Cross.</item>
  <item>I, Ealdwulf, bishop of the church of Mayo, have subscribed with devout will.</item>
  <item>I, Æthelwine, bishop, have subscribed through delegates.</item>
  <item>I, Sicga, patrician, have subscribed with serene mind with the sign of the Holy Cross.</item>
</list>
</p>
```

**Schematron**

```xml
<sch:rule context="tei:list[@type='gloss']">
  <sch:assert test="tei:label">The content of a ”gloss” list should include a sequence of one or more pairs of a label element followed by an item element</sch:assert>
</sch:rule>
```

**Content model**

```xml
<content>
  <sequence>
    <alternate minOccurs="0" maxOccurs="unbounded">
      <classRef key="model.divTop"/>
      <classRef key="model.global"/>
      <elementRef key="desc" minOccurs="0" maxOccurs="unbounded"/>
    </alternate>
    <alternate>
      <sequence minOccurs="1" maxOccurs="unbounded"/>
    </alternate>
  </sequence>
</content>
```
A LIST OF ELEMENTS DESCRIBED

<elementRef key="item"/>
<classRef key="model.global"
  minOccurs="0" maxOccurs="unbounded"/>
</sequence>
<sequence>
  <elementRef key="headLabel"
    minOccurs="0"/>
  <elementRef key="headItem"
    minOccurs="0"/>
  <sequence minOccurs="1"
    maxOccurs="unbounded">
    <elementRef key="label"/>
    <classRef key="model.global"
      minOccurs="0" maxOccurs="unbounded"/>
    <elementRef key="item"/>
    <classRef key="model.global"
      minOccurs="0" maxOccurs="unbounded"/>
  </sequence>
</sequence>
</alternate>
<sequence minOccurs="0"
  maxOccurs="unbounded">
  <classRef key="model.divBottom"/>
  <classRef key="model.global"
    minOccurs="0" maxOccurs="unbounded"/>
</sequence>
</sequence>
</content>

Schema Declaration

element list
{
  att.global.attributes,
  att.sortable.attributes,
  att.typed.attribute.subtype,
  attribute type
  {
    "gloss" | "index" | "instructions" | "litany" | "syllogism"
  }?,
  ( model.divTop | model.global | desc* )*,
  ( item, model.global* )+
  | ( headLabel?,
      headItem?,
      ( label, model.global*, item, model.global* )+
    ),
  ( model.divBottom, model.global* )*
}

<listBibl> (citation list) contains a list of bibliographic citations of any kind. 3.12.1. Methods of Encoding Bibliographic References and Lists of References 2.2.7. The Source Description 15.3.2. Declarable Elements

Module core
Attributes

Attributes

att.global (@xml:id, @n, @xml:lang, @xml:space)

(att.global.rendition (@rend)) (att.global.linking (@corresp, @next, @prev))

(att.global.analytic (@ana)) (att.global.facs (@facs)) (att.global.responsibility

(@cert, @resp)) (att.global.source (@source)) att sortable (@sortKey) att.declarable

(@default) att.typed (@type, @subtype)

Member of model.biblLike model.frontPart

Contained by

core: add cit corr del desc emph head hi item listBibl note orig p q ref reg relatedItem

sic stage title unclear

figures: cell figDesc figure

header: change licence sourceDesc taxonomy

linking: seg

textstructure: argument back body div docEdition epigraph front imprimatur postscript

salute signed titlePart trailer

May contain

core: bibl desc head lb listBibl milestone ph

linking: anchor

Example

<listBibl>
<head>Works consulted</head>
<bibl>Blain, Clements and Grundy: Feminist Companion to Literature in English (Yale, 1990)</bibl>
</listBibl>

Content model

<content>
<sequence>
<classRef key="model.headLike"

 minOccurs="0" maxOccurs="unbounded"/>
<elementRef key="desc" minOccurs="0"

 maxOccurs="unbounded"/>
<alternate minOccurs="0"

 maxOccurs="unbounded">
<classRef key="model.milestoneLike"

 minOccurs="1" maxOccurs="1"/>
<elementRef key="relation" minOccurs="1"

 maxOccurs="1"/>
<elementRef key="listRelation"

 minOccurs="1" maxOccurs="1"/>
</alternate>
<sequence minOccurs="1"

 maxOccurs="unbounded">

A LIST OF ELEMENTS DESCRIBED

```
<classRef key="model.biblLike"
  minOccurs="1" maxOccurs="unbounded"/>
<alternate minOccurs="0"
  maxOccurs="unbounded">
  <classRef key="model.milestoneLike"
    minOccurs="1" maxOccurs="1"/>
  <elementRef key="relation"
    minOccurs="1" maxOccurs="1"/>
  <elementRef key="listRelation"
    minOccurs="1" maxOccurs="1"/>
  </alternate>
</sequence>
</sequence>
</content>
```

Schema Declaration

```xml
<element listBibl
  {
    att.global.attributes,
    att.sortable.attributes,
    att.declarable.attributes,
    att.typed.attributes,
    ( model.headLike*,
      desc*,
      ( model.milestoneLike | relation | listRelation )*,
      ( model.biblLike+, ( model.milestoneLike | relation | listRelation )* )+)
  }
}
```

<mentioned> marks words or phrases mentioned, not used. 3.3.3. Quotation

Module core

Attributes

```
att.global (
  @xml:id, @n, @xml:lang, @xml:space)
  (att.global.rendition (@rend)) (att.global.linking (@corresp, @next, @prev))
  (att.global.analytic (@ana)) (att.global.facs (@facs)) (att.global.responsibility
    (@cert, @resp)) (att.global.source (@source))
```

Member of model.emphLike

Contained by

```
analysis: abbr add addrLine author bibl biblScope corr date del desc editor emph expan
  foreign gloss head hi item label mentioned name note num orig p pubPlace
  publisher q ref reg resp rs sic soCalled speaker stage term time title unclear
figures: cell figDesc
header: authority catDesc change classCode creation distributor edition extent funder
  language licence principal sponsor
linking: seg
tagdocs: eg
textstructure: byline closer dateline docAuthor docDate docEdition docImprint
  imprimatur opener salute signed titlePart trailer
May contain
```

analysis: interp interpGrp pc s w
Example

There is thus a striking accentual difference between a verbal form like

<mentioned xml:id="X234" xml:lang="el">eluthemen</mentioned>
<gloss target="#X234">we were released,</gloss> accented on the second syllable of the word, and its participial derivative

<mentioned xml:id="X235" xml:lang="el">lutheis</mentioned>
<gloss target="#X235">released,</gloss> accented on the last.
A LIST OF ELEMENTS DESCRIBED

tagdocs: eg
textstructure: argument back body byline closer dateline div docAuthor docDate
docEdition docImprint docTitle epigraph front group imprimatur opener postscript
salute signed text titlePage titlePart trailer

May contain Empty element

Note For this element, the global n attribute indicates the new number or other value for the unit which changes at this milestone. The special value unnumbered should be used in passages which fall outside the normal numbering scheme, such as chapter or other headings, poem numbers or titles, etc.
The order in which <milestone> elements are given at a given point is not normally significant.

Example

<milestone n="23" ed="La" unit="Dreissiger"/>
... <milestone n="24" ed="AV" unit="verse"/> ...

Content model <content> <empty/></content>

Schema Declaration

```
<element milestone {
  att.global.attributes,
  att.milestoneUnit.attributes,
  att.typed.attributes,
  att.edition.attributes,
  att.spanning.attributes,
  att.breaking.attributes,
  empty

```

<name> (name, proper noun) contains a proper noun or noun phrase. 3.6.1. Referring Strings

Module core

Attributes Attributes att.global ( @xml:id, @n, @xml:lang, @xml:space)
  (att.global.rendition ( @rend )) (att.global.linking ( @corresp, @next, @prev ))
  (att.global.analytic ( @ana )) (att.global.chars ( @chars )) (att.global.responsibility ( @cert,
  @resp )) (att.global.source ( @source )) att.personal ( @full, @sort ) att.naming ( @role,
  @nymRef ) att.canonical ( @key, @ref ) att.datable ( @period ) att.datable.w3c
  ( @when ) att.editLike ( @evidence, @instant ) att.typed ( @type, @subtype )

Member of model.nameLike.agent

Contains by analysis: 8

core: abbr add addrLine address author bibl biblScope corr date del desc editor emph
  expand foreign gloss head hi item l label mentioned name note num orig p pubPlace
  publisher q ref reg resp respStmt rs sic soCalled speaker stage term time title unclear

figures: cell figDesc

header: authority catDesc change classCode creation distributor edition extent funder
  language licence principal sponsor

linking: seg

tagdocs: eg
<note>

**textstructure:**
byline closer dateline docAuthor docDate docEdition docImprint imprimatur opener salute signed titlePart trailer

**May contain**
analysis: interp interpGrp pc s w

core: abbr add address choice cit corr date del emph expan foreign gap gloss graphic hi index lb mentioned milestone name note num orig pb ptr q ref reg rs sic soCalled term time title unclear

**figures:** figure formula

**header:** idno

**linking:** anchor seg

**tagdocs:** att code gi ident val

character data

**Note** Proper nouns referring to people, places, and organizations may be tagged instead with `<persName>`, `<placeName>`, or `<orgName>`, when the TEI module for names and dates is included.

**Example**

```xml
<name type="person">Thomas Hoccleve</name>
<name type="place">Villingaholt</name>
<name type="org">Vetus Latina Institut</name>
<name type="person" ref="#HOC001">Occleve</name>
```

**Content model**

```xml
<content>
  <macroRef key="macro.phraseSeq"/>
</content>
```

**Schema Declaration**

```xml
element name
{
  att.global.attributes,
  att.personal.attributes,
  att.datable.attributes,
  att.editLike.attributes,
  att.typed.attributes,
  att.written.attributes,
  macro.phraseSeq
}
```


**Module core**

**Attributes**
att.global (@xml:id, @n, @xml:lang, @xml:space)
  (att.global.rendition (@rend)) (att.global.linking (@corresp, @next, @prev))
  (att.global.analytic (@ana)) (att.global.facs (@facs)) (att.global.responsibility
  (@cert, @resp)) (att.global.source (@source)) att.placement (@place) att.pointing
  (@targetLang, @target, @evaluate) att.typed (@type, @subtype) att.written (@hand)
  att.anchoring (@anchored, @targetEnd)

**Member of** model.noteLike

**Contained by**
And yet it is not only in the great line of Italian renaissance art, but even in the painterly <note place="bottom" type="gloss" nsv="MDMH"> Malerisch</note>. This word has, in the German, two distinct meanings, one objective, a quality residing in the object, the other subjective, a mode of apprehension and creation. To avoid confusion, they have been distinguished in English as <mentioned>picturesque</mentioned> and <mentioned>painterly</mentioned> respectively.
</note> style of the Dutch genre painters of the seventeenth century that drapery has this psychological significance.

For this example to be valid, the code MDMH must be defined elsewhere, for example by means of a responsibility statement in the associated TEI header.

Example The global n attribute may be used to supply the symbol or number used to mark the note’s point of attachment in the source text, as in the following example:

Mevorakh b. Saadya’s mother, the matriarch of the family during the second half of the eleventh century, <note n="126" anchored="true"> The
alleged mention of Judah Nagid’s mother in a letter from 1071 is, in fact, a reference to Judah’s children; cf. above, nn. 111 and 54. </note> is well known from Geniza documents published by Jacob Mann.

However, if notes are numbered in sequence and their numbering can be reconstructed automatically by processing software, it may well be considered unnecessary to record the note numbers.

Content model

```xml
<content>
  <macroRef key="macro.specialPara"/>
</content>
```

Schema Declaration

```xml
element note {
  att.global.attributes,
  att.placement.attributes,
  att.pointing.attributes,
  att.typed.attributes,
  att.written.attributes,
  att.anchoring.attributes,
  macro.specialPara}
```

<notesStmt> (notes statement) collects together any notes providing information about a text additional to that recorded in other parts of the bibliographic description. [2.2.6. The Notes Statement 2.2. The File Description]

Module header

Attributes

<table>
<thead>
<tr>
<th>att.global ( @xml:id, @n, @xml:lang, @xml:space)</th>
</tr>
</thead>
<tbody>
<tr>
<td>(att.global.rendition ( @rend)) (att.global.linking ( @corresp, @next, @prev))</td>
</tr>
<tr>
<td>(att.global.analytic ( @ana)) (att.global.facs ( @facs)) (att.global.responsibility ( @cert, @resp)) (att.global.source ( @source))</td>
</tr>
</tbody>
</table>

Contained by

header: fileDesc

May contain

core: note relatedItem

Note Information of different kinds should not be grouped together into the same note.

Example

```xml
<notesStmt>
  <note>Historical commentary provided by Mark Cohen</note>
  <note>OCR scanning done at University of Toronto</note>
</notesStmt>
```

Content model

```xml
<content>
  <alternate minOccurs="1" maxOccurs="unbounded">
    <classRef key="model.noteLike"/>
  </alternate>
</content>
```
A List of Elements Described

Schema Declaration

\[
\text{element notesStmt} \{ \text{att.global.attributes}, (\text{model.noteLike} \mid \text{relatedItem})^+ \}
\]

\(<\text{num}>\) (number) contains a number, written in any form. [3.6.3. Numbers and Measures]

**Module core**

**Attributes**

\[
\text{att.global (@xml:id, @n, @xml:lang, @xml:space)}
\]

\[
(\text{att.global.rendition (@rend)}) (\text{att.global.linking (@corresp, @next, @prev)})
\]

\[
(\text{att.global.analytic (@ana)}) (\text{att.global.facs (@facs)}) (\text{att.global.responsibility (@cert, @resp)})
\]

\[
(\text{att.global.source (@source)}) \text{att.ranging (@atLeast, @atMost, @min, @max, @confidence}) \text{att.typed (@type, @subtype)}
\]

**@type** indicates the type of numeric value.

**Derived from**

**Status** Optional

**Datatype** teidata.enumerated

**Suggested values include:**

- **cardinal** absolute number, e.g. 21, 21.5
- **ordinal** ordinal number, e.g. 21st
- **fraction** fraction, e.g. one half or three-quarters
- **percentage** a percentage

**Note** If a different typology is desired, other values can be used for this attribute.

**@value** supplies the value of the number in standard form.

**Status** Optional

**Datatype** teidata.numeric

**Values** a numeric value.

**Note** The standard form used is defined by the TEI datatype teidata.numeric.

**Member of** model.measureLike

**Contained by**

**analysis:**

- abbr
- add
- addrLine
- author
- bibl
- biblScope
- corr
- date
- del
- desc
- editor
- emph
- expan
- foreign
- gloss
- head
- hi
- item
- label
- mentioned
- name
- note
- num
- orig
- p
- pubPlace
- publisher
- q
- ref
- reg
- resp
- rs
- sic
- soCalled
- speaker
- stage
- term
- time
- title
- unclear

**figures:**

- cell
- figDesc

**header:**

- authority
- catDesc
- change
- classCode
- creation
- distributor
- edition
- extent
- funder
- language
- licence
- principal
- sponsor

**linking:**

- seg

**tagdocs:**

- eg

**textstructure:**

- byline
- closer
- dateline
- docAuthor
- docDate
- docEdition
- docImprint
- imprimatur
- opener
- salute
- signed
- titlePart
- trailer

**May contain**

**analysis:**

- interp
- interpGrp
- pc
- s
- w
Detailed analyses of quantities and units of measure in historical documents may also use the feature structure mechanism described in chapter 18. Feature Structures. The `<num>` element is intended for use in simple applications.

Example

```xml
<p>I reached <num type="cardinal" value="21">twenty-one</num> on my <num type="ordinal" value="21">twenty-first</num> birthday.</p>
<p>Light travels at <num value="3E10">3×10^{10}</num> cm per second.</p>
```

Content model

```xml
<content>
  <macroRef key="macro.phraseSeq"/>
</content>
```

Schema Declaration

```xml
element num
{
  att.global.attributes,
  att.typed.attribute.subtype,
  att.ranging.attributes,
  attribute type { "cardinal" | "ordinal" | "fraction" | "percentage" },
  attribute value { text },
  macro.phraseSeq
}
```

`<opener>` (opener) groups together dateline, byline, salutation, and similar phrases appearing as a preliminary group at the start of a division, especially of a letter.

4.2. Elements Common to All Divisions

Module `textstructure`

Attributes

```xml
att.global (@xml:id, @n, @xml:lang, @xml:space)
  (att.global.rendition (@rend))
  (att.global.linking (@corresp, @next, @prev))
  (att.global.analytic (@ana))
  (att.global.faces (@faces))
  (att.global.responsibility (@cert, @resp))
  (att.global.source (@source))
  att.written (@hand)
```

Member of `model.divTopPart`

Contained by

`core`: `lg list`

`textstructure`: `body div group postscript`

May contain

`analysis`: `interp interpGrp pc s w`
A LIST OF ELEMENTS DESCRIBED

core: abbr add address choice corr date del emph expand foreign gap gloss graphic hi
index lb mentioned milestone name note num prig pb ptr q ref reg rs sic soCalled
term time title unclear
figures: figure formula
header: idno
linking: anchor seg
tagdocs: att code gi ident val
textstructure: argument byline dateline epigraph salute signed
character data

Example

<opener>
  <dateline>Walden, this 29. of August 1592</dateline>
</opener>

Example

<opener>
  <dateline>
    <name type="place">Great Marlborough Street</name>
    <date>November 11, 1848</date>
  </dateline>
  <salute>My dear Sir,</salute>
</opener>

<p>I am sorry to say that absence from town and other circumstances have
prevented me from
earlier enquiring...</p>

Content model

<content>
  <alternate minOccurs="0" maxOccurs="unbounded">
    <textNode/>
    <classRef key="model.gLike"/>
    <classRef key="model.phrase"/>
    <elementRef key="argument"/>
    <elementRef key="byline"/>
    <elementRef key="dateline"/>
    <elementRef key="epigraph"/>
    <elementRef key="salute"/>
    <elementRef key="signed"/>
    <classRef key="model.global"/>
  </alternate>
</content>

Schema Declaration

element opener
{
  att.global.attributes,
  att.written.attributes,
  (text
    | model.gLike | model.phrase | argument | byline | dateline | epigraph)
<orig> (original form) contains a reading which is marked as following the original, rather than being normalized or corrected. [3.5.2. Regularization and Normalization | Critical Apparatus]

Module core
Attributes Attributes att.global (@xml:id, @n, @xml:lang, @xml:space)
(att.global.rendition (@rend)) (att.global.linking (@corresp, @next, @prev))
(att.global.analytic (@ana)) (att.global.facs (@facs)) (att.global.responsibility (@cert, @resp)) (att.global.source (@source))

Member of | model.choicePart | model.pPart.transcriptional

Contained by
analysis: pc s w
core: abbr addrLine author bibl biblScope choice corr date del editor emph expan
gloss head hi item label mentioned name note num orig p pubPlace
publisher q ref reg rs sic soCalled speaker stage term time title unclear

figures: cell
header: change distributor edition extent licence
linking: seg

tagdocs: eg

textstructure: byline closer dateline docAuthor docDate docEdition docImprint
imprimatur opener salute signed titlePart trailer

May contain
analysis: interp interpGrp pc s w
content: abbr addr address bibl choice cit corr date del desc emph expan foreign gap gloss
graphic hi index lb lg list listBibl mentioned milestone name note num orig pb
ptr q ref reg rs sic soCalled stage term time title unclear

figures: figure formula table

header: idno

linking: anchor seg


tagdocs: att code eg gi ident val

Character data

Example. If all that is desired is to call attention to the original version in the copy text, <orig> may be used alone:

<l>But this will be a <orig>meere</orig> confusion</l>
<l>And hardly shall we all be <orig>vnderstoode</orig></l>

Example. More usually, an <orig> will be combined with a regularized form within a <choice> element:

<l>But this will be a <choice>
.orig>meere</orig>
.reg>mere</reg>
</choice> confusion</l>
<l>And hardly shall we all be <choice>
.orig>vnderstoode</orig>
.reg>understood</reg>
</choice></l>

Content model

<content>
A LIST OF ELEMENTS DESCRIBED

<macroRef key="macro.paraContent"/>
</content>

Schema Declaration

```xml
<element orig { att.global.attributes, macro.paraContent } />
```

<p> (paragraph) marks paragraphs in prose. | 3.1. Paragraphs | 7.2.5. Speech Contents |</p>

Module core

Attributes Attributes att.global (@xml:id, @n, @xml:lang, @xml:space)
att.global.rendition (@rend) att.global.linking (@corresp, @next, @prev)
att.global.analytic (@ana) att.global.facs (@facs) att.global.responsibility
(@cert, @resp) att.global.source (@source) att.declaring (@decls) att.fragmentable
(@part) att.written (@hand)

Member of model.pLike

Contained by

core: item note q sp stage
figures: cell figure
header: availability change editionStmt editorialDecl encodingDesc langUsage licence
projectDesc publicationStmt refsDecl samplingDecl seriesStmt sourceDesc

textstructure: argument back body div epigraph front postscript

May contain

analysis: interp interpGrp pc s w
core: abbr add address bibl choice cit corr core date del desc emph expan foreign gap gloss
graphic hi index i label lb li listListBibl mentioned milestone name note num orig pb
ptr q ref reg rs sic soCalled stage term time title unclear

figures: figure formula table
header: idno
linking: anchor seg
tagdocs: att code eg gi ident val

character data

Example

```xml
<p> Hallgerd was outside. <q> There is blood on your axe, </q> she said. 
</p> 
<p> <q> What have you done? </q> 
</p> 
<p> I have now arranged that you can be married a second time, <q> replied Thjostolf. 
</p> 
<p> Then you must mean that Thorvald is dead, <q> she said. 
</p> 
<p> Yes, <q> said Thjostolf. <q> And now you must think up some plan for me. <q> 
</p> 
```
Schematron <s:report test="not(ancestor::tei:floatingText) and (ancestor::tei:p or
ancestor::tei:ab) and not(parent::tei:exemplum |parent::tei:item |parent::tei:note
|parent::tei:q |parent::tei:quote |parent::tei:remarks |parent::tei:said |parent::tei:sp
|parent::tei:stage |parent::tei:cell |parent::tei:figure )”> Abstract model violation:
Paragraphs may not occur inside other paragraphs or ab elements. </s:report>

Schematron <s:report test="ancestor::tei:l[not(.//tei:note//tei:p[. = current()])]”>
Abstract model violation: Lines may not contain higher-level structural elements
such as div, p, or ab. </s:report>

Content model

```xml
<content>
  <macroRef key="macro.paraContent"/>
</content>
```

Schema Declaration

```
 element p
  {
    att.global.attributes,
    att.declaring.attributes,
    att.fragmentable.attributes,
    att.written.attributes,
    macro.paraContent
  }
```

---

3.11.3. Milestone Elements

Module core

Attributes

att.global (@xml:id, @n, @xml:lang, @xml:space)
  (att.global.rendition (@rend))
  (att.global.linking (@corresp, @next, @prev))
  (att.global.analytic (@ana))
  (att.global.facs (@facs))
  (att.global.responsibility (@cert, @resp))
  (att.global.source (@source))
  att.typed (@type, @subtype)
  att.edition (@ed, @edRef)
  att.spanning (@spanTo)
  att.breaking (@break)

Member of model.milestoneLike

Contained by

analysis:  

core:  abbr add addrLine address author bibl biblScope cit corr date del editor emph
  expand foreign gloss head hi item label lg listBibl mentioned name note num orig
  p pubPlace publisher q ref reg resp rs sic soCalled sp speaker stage term time title
  unclear

figures:  cell figure table

header:  authority change classCode distributor edition extent funder language licence
  principal sponsor

linking:  seg

tagdocs:  eg

textstructure:  argument back body byline closer dateline div docAuthor docDate
docEdition docImprint docTitle epigraph front group imprimatur opener postscript
  salute signed text titlePage titlePart trailer

May contain Empty element

---
A LIST OF ELEMENTS DESCRIBED

Note A `<pb>` element should appear at the start of the page which it identifies. The global n attribute indicates the number or other value associated with this page. This will normally be the page number or signature printed on it, since the physical sequence number is implicit in the presence of the `<pb>` element itself.

The type attribute may be used to characterize the page break in any respect. The more specialized attributes break, ed, or edRef should be preferred when the intent is to indicate whether or not the page break is word-breaking, or to note the source from which it derives.

Example Page numbers may vary in different editions of a text.

```xml
<p> ... <pb n="145" ed="ed2"/>
<!-- Page 145 in edition "ed2" starts here --> ... <pb n="283" ed="ed1"/>
<!-- Page 283 in edition "ed1" starts here--> ... </p>
```

Example A page break may be associated with a facsimile image of the page it introduces by means of the facs attribute

```xml
<body>
  <pb n="1" facs="page1.png"/>
  <!-- page1.png contains an image of the page; the text it contains is encoded here -->
</body>
```

Content model `<content> <empty/></content>`

Schema Declaration

element pb
{
  att.global.attributes,
  att.typed.attributes,
  att.edition.attributes,
  att.spanning.attributes,
  att.breaking.attributes,
  empty
}

<pc> (punctuation character) contains a character or string of characters regarded as constituting a single punctuation mark. [17.1.2. Below the Word Level 17.4.2. Lightweight Linguistic Annotation]

Module analysis

Attributes Attributes att.global (@xml:id, @n, @xml:lang, @xml:space)
(att.global.rendition (@rend)) (att.global.linking (@corresp, @next, @prev))
(att.global.facs (@facs)) (att.global.responsibility (@cert, @resp)) (att.global.source (@source)) att.segLike (@function) (att.datcat (@datcat, @valueDatcat)) (att.fragmentable (@part)) att.typed (@type, @subtype)
att.linguistic (@lemma, @lemmaRef, @pos, @msd, @join)
(att.lexicographic.normalized (@norm, @orig))
@force indicates the extent to which this punctuation mark conventionally separates words or phrases
Status Optional
Datatype teidata.enumerated
Legal values are: strong the punctuation mark is a word separator
weak the punctuation mark is not a word separator
inter the punctuation mark may or may not be a word separator
@unit provides a name for the kind of unit delimited by this punctuation mark.
Status Optional
Datatype teidata.enumerated
@pre indicates whether this punctuation mark precedes or follows the unit it delimits.
Status Optional
Datatype teidata.truthValue

Member of model.segLike
Contained by
analysis:
s
core:
abbr add addrLine author bibl biblScope cit corr date del editor famn expan foreign gloss head hi item label mentioned name note num orig p pubPlace publisher q ref reg rs sic soCalled speaker stage term time title unclear
figures:
cell
header:
change distributor edition extent licence
linking:
seg
tagdocs:
eg

textstructure:
byline closer dateline docAuthor docDate docEdition docImprint imprimatur opener salute signed titlePart trailer
May contain
core:
abbr add choice corr del expan orig reg rs sic unclear
character data
Example

Example encoding of the German sentence Wir fahren in den Urlaub., encoded with attributes from att.linguistic discussed in section AILALW.

Example

Content model

<content>
A LIST OF ELEMENTS DESCRIBED

Schema Declaration

```xml
<alternate minOccurs="0" maxOccurs="unbounded">
  <TextNode/>
  <classRef key="model.gLike"/>
  <elementRef key="c"/>
  <classRef key="model.pPart.edit"/>
</alternate>
</content>
```

**Schema Declaration**

element pc {
  att.global.attributes,
  att.segLike.attributes,
  att.typed.attributes,
  att.linguistic.attributes,
  attribute force { "strong" | "weak" | "inter" }?,
  attribute unit { text }?,
  attribute pre { text }?,
  ( text | model.gLike | c | model.pPart.edit )*}

**<postscript>** contains a postscript, e.g. to a letter. [4.2. Elements Common to All Divisions]

**Module texstructure**

**Attributes** Attributes

- `att.global` (@xml:id, @n, @xml:lang, @xml:space)
- `att.global.rendition` (@rend)
- `att.global.linking` (@corresp, @next, @prev)
- `att.global.analytic` (@ana)
- `att.global.fac` (@facs)
- `att.global.responsibility` (@cert, @resp)
- `att.global.source` (@source)
- `att.written` (@hand)

**Member of** model.divBottomPart

**Contained by**

- `core`: `lg` `list`
- `figures`: `figure` `table`
- `texstructure`: `back` `body` `div` `front` `group` `postscript`

**May contain**

- `analysis`: `interp` `interpGrp`
- `core`: `bibl` `cit` `desc` `gap` `head` `index` `label` `lb` `lg` `list` `listBibl` `milestone` `note` `p` `pb` `q` `sp` `stage`
- `figures`: `figure` `table`
- `linking`: `anchor`
- `tagdocs`: `eg`

**texstructure**: `closer` `opener` `postscript` `signed` `trailer`

**Example**

```xml
<div type="letter">
  <opener>
  <dateline>
    <placeName>Rimaone</placeName>
    <date when="2006-11-21">21 Nov 06</date>
  </dateline>
  <salute>Dear Susan,</salute>
</div>
```
Thank you very much for the assistance splitting those logs. I'm sorry about the misunderstanding as to the size of the task. I really was not asking for help, only to borrow the axe. Hope you had fun in any case.

Sincerely yours,

Seymour

P.S. The collision occurred on 06 Jul 01.

The collision occurred on 06 Jul 01.

Content model

```
<content>
  <sequence>
    <alternate minOccurs="0" maxOccurs="unbounded">
      <classRef key="model.global"/>
      <classRef key="model.divTopPart"/>
    </alternate>
    <classRef key="model.common"/>
    <alternate minOccurs="0" maxOccurs="unbounded">
      <classRef key="model.global"/>
      <classRef key="model.common"/>
    </alternate>
    <sequence minOccurs="0" maxOccurs="unbounded">
      <classRef key="model.divBottomPart"/>
      <classRef key="model.global" minOccurs="0" maxOccurs="unbounded"/>
    </sequence>
  </sequence>
</content>
```

Schema Declaration

```
element postscript
{
  att.global.attributes,
  att.written.attributes,
  ( model.global | model.divTopPart )*,
  model.common,
  ( model.global | model.common )*,
  ( model.divBottomPart, model.global* )*
}
```

(principal researcher) supplies the name of the principal researcher responsible for the creation of an electronic text. [2.2.1. The Title Statement]
Attributes Attributes `att.global` (`@xml:id`, `@n`, `@xml:lang`, `@xml:space`)  
(`att.global.rendition` (`@rend`)) (`att.global.linking` (`@corresp`, `@next`, `@prev`))  
(`att.global.analytic` (`@ana`)) (`att.global.facs` (`@facs`)) (`att.global.responsibility` (`@cert`, `@resp`))  
(`att.global.source` (`@source`)) `att.canonical` (`@key`, `@ref`) `att.datable` (`@period`) (`att.datable.w3c` (`@when`))

**Member of** `model.respLike`  
**Contained by** `core: bibl`  
`header: `editionStmt` `titleStmt`

**May contain** `analysis: interp interpGrp`

**core: `abbr` `address` `choice` `date` `emph` `expan` `foreign` `gap` `gloss` `hi` `index` `lb` `mentioned` milestone `name` `note` `num` `pb` `ptr` `q` `ref` `rs` `soCalled` `term` `time` `title`  
`figures: `figure`

**header: `idno`**

**linking: `anchor`**

**tagdocs: `att` `code` `gi` `ident` `val`**

**character data**

**Example**

```
<principal ref="http://viaf.org/viaf/105517912">Gary Taylor</principal>
```

**Content model**

```
<content>
  <macroRef key="macro.phraseSeq.limited"/>
</content>
```

**Schema Declaration**

```
element principal{
  att.global.attributes,
  att.canonical.attributes,
  att.datable.attributes,
  macro.phraseSeq.limited}
```

**<profileDesc>** (text-profile description) provides a detailed description of  
non-bibliographic aspects of a text, specifically the languages and sublanguages used,  
the situation in which it was produced, the participants and their setting. [2.4. The  
Profile Description 2.1.1. The TEI Header and Its Components]

**Module header**

Attributes Attributes `att.global` (`@xml:id`, `@n`, `@xml:lang`, `@xml:space`)  
(`att.global.rendition` (`@rend`)) (`att.global.linking` (`@corresp`, `@next`, `@prev`))  
(`att.global.analytic` (`@ana`)) (`att.global.facs` (`@facs`)) (`att.global.responsibility` (`@cert`, `@resp`))  
(`att.global.source` (`@source`))
May contain

header: creation langUsage textClass

Note Although the content model permits it, it is rarely meaningful to supply multiple occurrences for any of the child elements of <profileDesc> unless these are documenting multiple texts.

Example

```xml
<profileDesc>
  <langUsage>
    <language ident="fr">French</language>
  </langUsage>
  <textDesc n="novel">
    <channel mode="w">print; part issues</channel>
    <constitution type="single"/>
    <derivation type="original"/>
    <domain type="art"/>
    <factuality type="fiction"/>
    <interaction type="none"/>
    <preparedness type="prepared"/>
    <purpose type="entertain" degree="high"/>
    <purpose type="inform" degree="medium"/>
  </textDesc>
  <settingDesc>
    <setting>
      <name>Paris, France</name>
      <time>Late 19th century</time>
    </setting>
  </settingDesc>
</profileDesc>
```

Content model

```xml
<content>
  <classRef key="model.profileDescPart" minOccurs="0" maxOccurs="unbounded"/>
</content>
```

Schema Declaration

```
element profileDesc { att.global.attributes, model.profileDescPart* } }
```

<projectDesc> (project description) describes in detail the aim or purpose for which an electronic file was encoded, together with any other relevant information concerning the process by which it was assembled or collected. [2.3.1. The Project Description 2.3. The Encoding Description 15.3.2. Declarable Elements]

Module header

Attributes Attributes att.global (@xml:id, @n, @xml:lang, @xml:space)
  (att.global.rendition (@rend)) (att.global/linking (@corresp, @next, @prev))
  (att.global.analytic (@ana)) (att.global.facs (@facs)) (att.global/responsibility (@cert, @resp))
  (att.global/source (@source)) att.declarable (@default)

Member of model.encodingDescPart

Contained by

header: encodingDesc

May contain
Example

```xml
<projectDesc>
  <p>Texts collected for use in the Claremont Shakespeare Clinic, June 1990</p>
</projectDesc>
```

Content model

```xml
<content>
  <classRef key="model.pLike" minOccurs="1" maxOccurs="unbounded"/>
</content>
```

Schema Declaration

```xml
element projectDesc
{
  att.global.attributes,
  att.declarable.attributes,
  model.pLike+
}
```

<ptr> (pointer) defines a pointer to another location. [3.7. Simple Links and Cross-References 16.1. Links]

Module core

Attributes Attributes

- att.cReferencing (@cRef)
- att.declaring (@decls)
- att.global (@xml:id, @n, @xml:lang, @xml:space)
- att.global.rendition (@rend)
- att.global.linking (@corresp, @next, @prev)
- att.global.analytic (@ana)
- att.global.facs (@facs)
- att.global.responsibility (@cert, @resp)
- att.global.source (@source)
- att.pointing (@targetLang, @target, @evaluate)
- att.typed (@type, @subtype)

Member of model.ptrLike

Contained by

<table>
<thead>
<tr>
<th>analysis</th>
<th>8</th>
</tr>
</thead>
</table>

 core: abbr add addrLine author bibl biblScope cit corr date del desc editor emph expan foreign gloss head hi item i label mentioned name note num orig p pubPlace publisher q ref reg relatedItem resp rs sic soCalled speaker stage term time title unclear

figures: cell figDesc

header:

| authority | catDesc change classCode creation distributor edition extent funder language licence principal publicationStmt sponsor |

linking:

| seg |

tagdocs:

| eg |

textstructure:

| byline closer dateline docAuthor docDate docEdition docImprint imprimatur opener salute signed titlePart trailer |

May contain Empty element

Example

180
Schematron   <s:report test="@target and @cRef">Only one of the attributes @target and @cRef may be supplied on <s:name/>.</s:report>

Content model   <content> <empty/> </content>

Schema Declaration

```
<ptr target="#p143 #p144"/>
<ptr target="http://www.tei-c.org"/>
<ptr cRef="1.3.4"/>
```

<ptr target="#p143 #p144"/>
<ptr target="http://www.tei-c.org"/>
<ptr cRef="1.3.4"/>

```
Schematron   <s:report test="@target and @cRef">Only one of the attributes @target and @cRef may be supplied on <s:name/>.</s:report>

Content model   <content> <empty/> </content>

Schema Declaration

```
<ptr target="#p143 #p144"/>
<ptr target="http://www.tei-c.org"/>
<ptr cRef="1.3.4"/>
```

<ptr target="#p143 #p144"/>
<ptr target="http://www.tei-c.org"/>
<ptr cRef="1.3.4"/>

```
Schematron   <s:report test="@target and @cRef">Only one of the attributes @target and @cRef may be supplied on <s:name/>.</s:report>

Content model   <content> <empty/> </content>

Schema Declaration

```
<ptr target="#p143 #p144"/>
<ptr target="http://www.tei-c.org"/>
<ptr cRef="1.3.4"/>
```

<ptr target="#p143 #p144"/>
<ptr target="http://www.tei-c.org"/>
<ptr cRef="1.3.4"/>

```
Schematron   <s:report test="@target and @cRef">Only one of the attributes @target and @cRef may be supplied on <s:name/>.</s:report>

Content model   <content> <empty/> </content>

Schema Declaration

```
<ptr target="#p143 #p144"/>
<ptr target="http://www.tei-c.org"/>
<ptr cRef="1.3.4"/>
```

<ptr target="#p143 #p144"/>
<ptr target="http://www.tei-c.org"/>
<ptr cRef="1.3.4"/>

```
Schematron   <s:report test="@target and @cRef">Only one of the attributes @target and @cRef may be supplied on <s:name/>.</s:report>

Content model   <content> <empty/> </content>

Schema Declaration

```
<ptr target="#p143 #p144"/>
<ptr target="http://www.tei-c.org"/>
<ptr cRef="1.3.4"/>
```

<ptr target="#p143 #p144"/>
<ptr target="http://www.tei-c.org"/>
<ptr cRef="1.3.4"/>

```
Schematron   <s:report test="@target and @cRef">Only one of the attributes @target and @cRef may be supplied on <s:name/>.</s:report>

Content model   <content> <empty/> </content>

Schema Declaration

```
<ptr target="#p143 #p144"/>
<ptr target="http://www.tei-c.org"/>
<ptr cRef="1.3.4"/>
```

<ptr target="#p143 #p144"/>
<ptr target="http://www.tei-c.org"/>
<ptr cRef="1.3.4"/>

```
Schematron   <s:report test="@target and @cRef">Only one of the attributes @target and @cRef may be supplied on <s:name/>.</s:report>

Content model   <content> <empty/> </content>

Schema Declaration

```
<ptr target="#p143 #p144"/>
<ptr target="http://www.tei-c.org"/>
<ptr cRef="1.3.4"/>
```

<ptr target="#p143 #p144"/>
<ptr target="http://www.tei-c.org"/>
<ptr cRef="1.3.4"/>

```
Schematron   <s:report test="@target and @cRef">Only one of the attributes @target and @cRef may be supplied on <s:name/>.</s:report>

Content model   <content> <empty/> </content>

Schema Declaration

```
<ptr target="#p143 #p144"/>
<ptr target="http://www.tei-c.org"/>
<ptr cRef="1.3.4"/>
```

<ptr target="#p143 #p144"/>
<ptr target="http://www.tei-c.org"/>
<ptr cRef="1.3.4"/>

```
Schematron   <s:report test="@target and @cRef">Only one of the attributes @target and @cRef may be supplied on <s:name/>.</s:report>

Content model   <content> <empty/> </content>

Schema Declaration

```
<ptr target="#p143 #p144"/>
<ptr target="http://www.tei-c.org"/>
<ptr cRef="1.3.4"/>
```

<ptr target="#p143 #p144"/>
<ptr target="http://www.tei-c.org"/>
<ptr cRef="1.3.4"/>

```
Schematron   <s:report test="@target and @cRef">Only one of the attributes @target and @cRef may be supplied on <s:name/>.</s:report>

Content model   <content> <empty/> </content>

Schema Declaration

```
<ptr target="#p143 #p144"/>
<ptr target="http://www.tei-c.org"/>
<ptr cRef="1.3.4"/>
```

<ptr target="#p143 #p144"/>
<ptr target="http://www.tei-c.org"/>
<ptr cRef="1.3.4"/>
A LIST OF ELEMENTS DESCRIBED

Content model

```xml
<content>
  <macroRef key="macro.phraseSeq"/>
</content>
```

Schema Declaration

```xml
element pubPlace
{
  att.global.attributes,
  att.naming.attributes,
  macro.phraseSeq}
```

```xml
<publicationStmt>
  (publication statement) groups information concerning the
  publication or distribution of an electronic or other text. [2.2.4. Publication,
  Distribution, Licensing, etc. 2.2. The File Description]
</publicationStmt>
```

Module header

Attributes

- att.global (@xml:id, @n, @xml:lang, @xml:space)
- att.global.rendition (@rend)
- att.global.linking (@corresp, @next, @prev)
- att.global.analytic (@ana)
- att.global.facs (@facs)
- att.global.linking (@corresp, @next, @prev)
- att.global.source (@source)

Contained by

header: fileDesc

May contain

core: address date ptr pubPlace publisher ref

header: authority availability distributor idno

Example

```xml
<publicationStmt>
  <publisher>C. Muquardt</publisher>
  <pubPlace>Bruxelles & Leipzig</pubPlace>
  <date when="1846"/>
</publicationStmt>
```

Example

```xml
<publicationStmt>
  <publisher>Chadwyck Healey</publisher>
  <pubPlace>Cambridge</pubPlace>
  <availability>
    <p>Available under licence only</p>
  </availability>
  <date when="1992">1992</date>
</publicationStmt>
```
Example

```xml
<publisher>Zea Books</publisher>  
<pubPlace>Lincoln, NE</pubPlace>  
<date>2017</date>  
<availability>
  <p>This is an open access work licensed under a Creative Commons Attribution 4.0 International license.</p>
</availability>
<ptr target="http://digitalcommons.unl.edu/zeabook/55"/>
</publicationStmt>
```

Content model

```xml
<content>
  <alternate>
    <sequence minOccurs="1" maxOccurs="unbounded">
      <classRef key="model.publicationStmtPart.agency"/>
      <classRef key="model.publicationStmtPart.detail" minOccurs="0" maxOccurs="unbounded"/>
    </sequence>
    <classRef key="model.pLike" minOccurs="1" maxOccurs="unbounded"/>
  </alternate>
</content>
```

Schema Declaration

```xml
element publicationStmt
{
  att.global.attributes, 
  (  
    ( model.publicationStmtPart.agency, model.publicationStmtPart.detail* )+  
    | model.pLike+  
  )
}
```

<publisher> (publisher) provides the name of the organization responsible for the publication or distribution of a bibliographic item. [3.12.2.4. Imprint, Size of a Document, and Reprint Information 2.2.4. Publication, Distribution, Licensing, etc.]

Module core

Attributes Attributes att.global (@xml:id, @n, @xml:lang, @xml:space) (att.global.rendition (@rend)) (att.global.linking (@corresp, @next, @prev)) (att.global.analytic (@ana)) (att.global.faces (@faces)) (att.global.responsibility (@cert, @resp)) (att.global.source (@source)) att.canonical (@key, @ref)

Member of model.imprintPart model.publicationStmtPart.agency

Contained by

core: bibl
header: publicationStmt
textstructure: docImprint

May contain

analysis: interp interpGrp pc s w

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A LIST OF ELEMENTS DESCRIBED

core: abbr add address choice cit corr date del emph expan foreign gap gloss graphic hi index lb mentioned milestone name note num prig pb ptr qi ref reg rs sic soCalled term time title unclear
figures: figure formula
header: idno
linking: anchor seg
tagdocs: att code gi ident val

character data

Note Use the full form of the name by which a company is usually referred to, rather than any abbreviation of it which may appear on a title page

Example

```xml
<imprint>
  <pubPlace>Oxford</pubPlace>
  <publisher>Clarendon Press</publisher>
  <date>1987</date>
</imprint>
```

Content model

```xml
<content>
  <macroRef key="macro.phraseSeq"/>
</content>
```

Schema Declaration

```xml
element publisher
{
  att.global.attributes,
  att.canonical.attributes,
  macro.phraseSeq
}
```

<q> (quoted) contains material which is distinguished from the surrounding text using quotation marks or a similar method, for any one of a variety of reasons including, but not limited to: direct speech or thought, technical terms or jargon, authorial distance, quotations from elsewhere, and passages that are mentioned but not used.

[3.3.3. Quotation]

Module core

Attributes

- att.global (@xml:id, @n, @xml:lang, @xml:space)
- att.global.rendition (@rend)
- att.global.linking (@corresp, @next, @prev)
- att.global.analytic (@ana)
- att.global.facs (@facs)
- att.global.responsibility (@cert, @resp)
- att.global.source (@source)
- att.ascribed.directed (@toWhom)
- att.ascribed (@who)

@type (type) may be used to indicate whether the offset passage is spoken or thought, or to characterize it more finely.

Status Optional

Datatype teidata.enumerated

Suggested values include: spoken (spoken) representation of speech

thought (thought) representation of thought, e.g. internal monologue
written (written) quotation from a written source
soCalled (so called) authorial distance
foreign (foreign)
distinct (distinct) linguistically distinct
term technical term
emph (emph) rhetorically emphasized
mentioned (mentioned) referring to itself, not its normal referent

Member of model.common model.hiLike

Contained by

analysis: s w

core: abbr add addrLine author bibl biblScope cit corr date del desc editor emph expan
    foreign gloss head hi item l label mentioned name note num orig p pubPlace
    publisher q ref reg resp rs sic soCalled sp speaker stage term time title unclear

figures: cell figDesc figure formula

header: authority catDesc change classCode creation distributor edition extent funder
    language licence principal sponsor

linking: seg

tagdocs: eg

textstructure: argument body byline closer dateline div docAuthor docDate docEdition
    docImprint epigraph imprimatur opener postscript salute signed titlePart trailer

May contain

analysis: interp interpGrp pc s w

core: abbr add address bibl choice cit corr date del desc editor emph expan foreign gap gloss
    graphic hi index l label lb lg list listBibl mentioned milestone name note num orig p
    pb ptr q ref reg resp rs sic soCalled sp speaker stage term time title unclear

figures: figure formula table

header: idno

linking: anchor seg

tagdocs: att code eg gi ident val

character data

Note May be used to indicate that a passage is distinguished from the surrounding text
for reasons concerning which no claim is made. When used in this manner, <q>
may be thought of as syntactic sugar for <hi> with a value of rend that indicates
the use of such mechanisms as quotation marks.

Example

It is spelled <q>Tübingen</q> — to enter the
letter <q>ü</q> with an umlaut hold down the <q>option</q> key and press
<q>0 0 f c</q>

Content model

<content>
<macroRef key="macro.specialPara"/>
</content>

Schema Declaration

element q

|
A LIST OF ELEMENTS DESCRIBED

```
att.global.attributes,
att.ascribed.directed.attributes,
attribute type
{
  "spoken"
  | "thought"
  | "written"
  | "soCalled"
  | "foreign"
  | "distinct"
  | "term"
  | "emph"
  | "mentioned"
},
macro.specialPara
```

<ref> (reference) defines a reference to another location, possibly modified by additional text or comment. [3.7. Simple Links and Cross-References] [16.1. Links]

Module core

Attributes Attributes att.cReferencing (@cRef) att.declaring (@decls) att.global (@xml:id, @n, @xml:lang, @xml:space) (att.global.rendition (@rend)) (att.global.linking (@corresp, @next, @prev)) (att.global.analytic (@ana)) (att.global.source (@source)) att.pointing (@targetLang, @target, @evaluate) att.typed (@type, @subtype)

Member of model.ptrLike

Contained by

analysis: s

core: abbr add addrLine author bibl biblScope cit corr date del desc editor emph expan foreign gloss head hi item l label mentioned name note num orig p pubPlace publisher q ref reg relatedItem resp rs sic soCalled speaker stage term time title unclear

figures: cell figDesc

header: authority catDesc change classCode creation distributor edition extent funder language licence principal publicationStmt sponsor

linking: seg

tagdocs: eg

textstructure: byline closer dateline docAuthor docDate docEdition docImprint imprimatur opener salute signed titlePart trailer

May contain

analysis: interp interpGrp pe s w

core: abbr add address bibl choice cit corr date del desc emph expan foreign gap gloss graphic hi index l label lb lg li list listBibl mentioned milestone name note num orig pb ptr q ref reg rs sic soCalled stage term time title unclear

figures: figure formula table

header: idno

linking: anchor seg

tagdocs: att code eg gi ident val

character data

Note The target and cRef attributes are mutually exclusive.
Example

See especially
<ref target="http://www.natcorp.ox.ac.uk/Texts/A02.xml#s2">the second sentence</ref>

Example

See also <ref target="#locution">s.v. <term>locution</term></ref>.

Schematron <s:report test="@target and @cRef">Only one of the attributes @target’ and @cRef’ may be supplied on <s:name/> </s:report>

Content model

```
<content>
  <macroRef key="macro.paraContent"/>
</content>
```

Schema Declaration

```
element ref
{
  att.cReferencing.attributes,
  att.declaring.attributes,
  att.global.attributes,
  att.pointing.attributes,
  att.typed.attributes,
  macro.paraContent}
```

<refsDecl> (references declaration) specifies how canonical references are constructed for this text. [2.3.6.3. Milestone Method 2.3. The Encoding Description 2.3.6. The Reference System Declaration]

Module header

Attributes

```
att.global (@xml:id, @n, @xml:lang, @xml:space)
  (att.global.rendition (@rend))
  (att.global.linking (@corresp, @next, @prev))
  (att.global.analytic (@ana))
  (att.global.facs (@facs))
  (att.global.responsibility (@cert, @resp))
  (att.global.source (@source))
  att.declarable (@default)
```

Member of model.encodingDescPart

Contained by

header: encodingDesc

May contain

core: \p

Example

```xml
<refsDecl>
    replacementPattern="#xpath(//body/div[@n='$1']/div[$2]/div3[$3])"/>
</refsDecl>
```

This example is a formal representation for the referencing scheme described informally in the following example.

Example
References are made up by concatenating the value for the \texttt{att} attribute on the highest level \texttt{div} element, followed by a space, followed by the sequential number of the next level \texttt{div} followed by a colon followed by the sequential number of the next (and lowest) level \texttt{div}.

\textbf{Content model}

\begin{verbatim}
<content>
  <alternate>
    <classRef key="model.pLike" minOccurs="1" maxOccurs="unbounded"/>
    <elementRef key="citeStructure"
      minOccurs="1" maxOccurs="unbounded"/>
    <elementRef key="cRefPattern"
      minOccurs="1" maxOccurs="unbounded"/>
    <elementRef key="refState" minOccurs="1"
      maxOccurs="unbounded"/>
  </alternate>
</content>
\end{verbatim}

\textbf{Schema Declaration}

```
<
  element refsDecl
  {
    att.global.attributes,
    att.declarable.attributes,
    ( model.pLike+ | citeStructure+ | cRefPattern+ | refState+ )
  }
```

\textbf{<reg>}(regularization) contains a reading which has been regularized or normalized in some sense. [3.5.2. Regularization and Normalization][12. Critical Apparatus]

\textbf{Module core Attributes Attributes att.global \texttt{(}@xml:id, @n, @xml:lang, @xml:space\texttt{)}}
\begin{itemize}
  \item att.global.rendition \texttt{(}@rend\texttt{)}
  \item att.global.linking \texttt{(}@corresp, @next, @prev\texttt{)}
  \item att.global.analytic \texttt{(}@ana\texttt{)}
  \item att.global.facs \texttt{(}@facs\texttt{)}
  \item att.global.responsibility \texttt{(}@cert, @resp\texttt{)}
  \item att.global.source \texttt{(}@source\texttt{)}
  \item att.editLike \texttt{(}@evidence, @instant\texttt{)}
  \item att.typed \texttt{(}@type, @subtype\texttt{)}
\end{itemize}

\textbf{Member of} model.choicePart model.pPart.transcriptional

\textbf{Contained by}

\begin{itemize}
  \item analysis: pc sw
  \item core: abbr add addrLine author bibl biblScope choice corr date del editor emph expan foreign gloss head hi item l label mentioned name note num orig p pubPlace publisher q ref reg rs sic soCalled speaker stage term time title unclear
  \item figures: cell
  \item header: change distributor edition extent licence
  \item linking: seg
  \item tagdocs: cg
Example If all that is desired is to call attention to the fact that the copy text has been regularized, <reg> may be used alone:

```xml
<q>Please <reg>knock</reg> if an <reg>answer</reg> is <reg>required</reg></q>
```

Example It is also possible to identify the individual responsible for the regularization, and, using the <choice> and <orig> elements, to provide both the original and regularized readings:

```xml
<q>Please <choice>
    <reg resp="#LB">knock</reg>
    <orig>cnk</orig>
</choice> if an <choice>
    <reg>answer</reg>
    <orig>nsr</orig>
</choice> is <choice>
    <reg>required</reg>
    <orig>reqd</orig>
</choice></q>
```

Content model

```xml
<content>
    <macroRef key="macro.paraContent"/>
</content>
```

Schema Declaration

```xml
element reg {
    att.global.attributes,
    att.editLike.attributes,
    att.typed.attributes,
    macro.paraContent}
```

<relatedItem> contains or references some other bibliographic item which is related to the present one in some specified manner, for example as a constituent or alternative version of it. [3.12.2.7. Related Items]
A LIST OF ELEMENTS DESCRIBED

Attributes

| att.global | ( @xml:id, @n, @xml:lang, @xml:space) |
| att.global.rendition | ( @rend) |
| att.global.linking | ( @corresp, @next, @prev) |
| att.global.analytic | ( @ana) |
| att.global.facs | ( @facs) |
| att.global.responsibility | ( @cert, @resp) |
| att.global.source | ( @source) |
| att.typed | ( @type, @subtype) |

@target points to the related bibliographic element by means of an absolute or relative URI reference

| Status | Optional |
| Datatype | teidata.pointer |

Member of model.biblPart

Contained by

| core: | bibl |
| header: | notesStmt |

May contain

| core: | bibl listBibl ptr ref |

Note If the target attribute is used to reference the related bibliographic item, the element must be empty.

Example

```xml
<biblStruct>
  <monogr>
    <author>Shirley, James</author>
    <title type="main">The gentlemen of Venice</title>
    <imprint>
      <pubPlace>New York</pubPlace>
      <publisher>Readex Microprint</publisher>
      <date>1953</date>
    </imprint>
    <extent>1 microprint card, 23 x 15 cm.</extent>
  </monogr>
  <series>
    <title>Three centuries of drama: English, 1642–1700</title>
  </series>
  <relatedItem type="otherForm">
    <biblStruct>
      <author>Shirley, James</author>
      <title type="main">The gentlemen of Venice</title>
      <title type="sub">a tragi-comedie presented at the private house in Salisbury Court by Her Majesties servants</title>
      <imprint>
        <pubPlace>London</pubPlace>
        <publisher>H. Moseley</publisher>
        <date>1655</date>
      </imprint>
      <extent>78 p.</extent>
    </biblStruct>
  </relatedItem>
</biblStruct>
```

Schematron

```xml
<sch:report test="@target and count( child::* ) > 0">If the @target attribute on <sch:name/> is used, the relatedItem element must be empty</sch:report> <sch:assert test="@target or child::*">A relatedItem element should have either a 'target' attribute or a child element to indicate the related bibliographic item</sch:assert>
```
<resp>

Content model

```
<content>
<alternate minOccurs="0">
  <classRef key="model.biblLike"/>
  <classRef key="model.ptrLike"/>
</alternate>
</content>
```

Schema Declaration

```
element relatedItem
{
  att.global.attributes,
  att.typed.attributes,
  attribute target { text }?,
  ( model.biblLike | model.ptrLike )?
}
```

(responsibility) contains a phrase describing the nature of a person’s intellectual responsibility, or an organization’s role in the production or distribution of a work. 3.12.2.2. Titles, Authors, and Editors 2.2.1. The Title Statement 2.2.2. The Edition Statement 2.2.5. The Series Statement

Module core

Attributes

```
att.global (@xml:id, @n, @xml:lang, @xml:space)
  (att.global.rendition (@rend))
  (att.global.linking (@corresp, @next, @prev))
  (att.global.analytic (@ana))
  (att.global.facs (@facs))
  (att.global.responsibility (@cert, @resp))
  (att.global.source (@source))
  attcanonical (@key, @ref)
  att datatable (@period)
  (att.datatable.w3c (@when))
```

Contained by

core: respStmt

May contain

analysis: interp interpGrp

core: abbr address choice date emph expan foreign gap gloss hi index lb mentioned milestone name note num pb ptr q ref rs soCalled term time title

figures: figure

header: idno

linking: anchor

tagdocs: att code gi ident val

character data

Note

The attribute ref, inherited from the class attcanonical may be used to indicate the kind of responsibility in a normalized form by referring directly to a standardized list of responsibility types, such as that maintained by a naming authority, for example the list maintained at http://www.loc.gov/marc/relators/relacode.html for bibliographic usage.

Example

```
<respStmt>
  <resp ref="http://id.loc.gov/vocabulary/relators/com.html">compiler</resp>
</respStmt>
```
<name>Edward Child</name>
</respStmt>

Content model

```
<content>
  <macroRef key="macro.phraseSeq.limited"/>
</content>
```

Schema Declaration

```
<respStmt>
  (statement of responsibility) supplies a statement of responsibility for the intellectual content of a text, edition, recording, or series, where the specialized elements for authors, editors, etc. do not suffice or do not apply. May also be used to encode information about individuals or organizations which have played a role in the production or distribution of a bibliographic work. [3.12.2.2. Titles, Authors, and Editors 2.2.1. The Title Statement 2.2.2. The Edition Statement 2.2.5. The Series Statement]

Module core
Attributes Attributes att.global ( @xml:id, @n, @xml:lang, @xml:space)
  (att.global.rendition ( @rend) ) (att.global.linking ( @corresp, @next, @prev))
  (att.global.analytic ( @ana) ) (att.global.facs ( @facs)) (att.global.responsibility ( @cert, @resp) ) (att.global.source ( @source)) att.canonical ( @key, @ref)

Member of model.respLike

Contained by
core: bibl
header: editionStmt seriesStmt titleStmt

May contain
core: name note resp

Example

```
<respStmt>
  <resp>transcribed from original ms</resp>
  <persName>Claus Huitfeldt</persName>
</respStmt>
```

Example

```
<respStmt>
  <resp>converted to XML encoding</resp>
  <name>Alan Morrison</name>
</respStmt>
```
Schema Declaration

```xml
<element respStmt {
  att.global.attributes,
  att.canonical.attributes,
  ( ( resp+, model.nameLike.agent+ ) | ( model.nameLike.agent+, resp+ ) ),
  note*
}
```
A LIST OF ELEMENTS DESCRIBED

<revisionDesc status="embargoed">
<change when="1991-11-11" who="#LB"> deleted chapter 10 </change>
</revisionDesc>

Content model

```xml
<content>
  <alternate>
    <elementRef key="list"/>
    <elementRef key="listChange"/>
    <elementRef key="change" minOccurs="1" maxOccurs="unbounded"/>
  </alternate>
</content>
```

Schema Declaration

```xml
element revisionDesc
{
  att.global.attributes,
  att.docStatus.attributes,
  ( list | listChange | change+ )
}
```

<row> (row) contains one row of a table. [4.1.1. TEI Tables]

Module figures

Attributes Attributes att.global ( @xml:id, @n, @xml:lang, @xml:space)

att.global.rendition ( @rend ) ( att.global.linking ( @corresp, @next, @prev ) )

att.global.analytic ( @ana ) ( att.global.facs ( @facs ) ) ( att.global.responsibility ( @cert, @resp ) )

att.global.source ( @source ) att.tableDecoration ( @role, @rows, @cols )

Contained by figures: table

May contain figures: cell

Example

```xml
<row role="data"> Classics </row>
<cell role="label"> Classics </cell>
<cell> Idle listless and unimproving </cell>
</row>
```

Content model

```xml
<content>
  <elementRef key="cell" minOccurs="1" maxOccurs="unbounded"/>
</content>
```

Schema Declaration

```xml
element row { att.global.attributes, att.tableDecoration.attributes, cell+ }
```
(referencing string) contains a general purpose name or referring string. [13.2.1. Personal Names 3.6.1. Referring Strings]

Module core

Attributes Attributes
att.global ( @xml:id, @n, @xml:lang, @xml:space)
( att.global.rendition ( @rend) ( att.global.linking ( @corresp, @next, @prev))
( att.global.analytic ( @ana)) ( att.global.facs ( @facs)) ( att.global.responsibility
( @cert, @resp)) ( att.global.source ( @source)) att.naming ( @role, @nymRef)
( att.canonical ( @key, @ref)) att.typed ( @type, @subtype)

Member of model.nameLike

Contained by

analysis: abbr add addrLine address author bibl biblScope corr date del desc editor emph expan foreign gloss head hi item label mentioned name note num orig ptr q ref reg resp rs sic soCalled speaker stage term time title unclear

figures: cell figDesc

header: authority catDesc change classCode creation distributor edition extent funder language licence principal sponsor

linking: seg

tagdocs: eg

textstructure: byline closer dateline docAuthor docDate docEdition docImprint imprimatur opener salute signed titlePart trailer

May contain

analysis: interp interpGrp pc s w

core: abbr add address choice cit corr date del emph expan foreign gap gloss graphic hi index lb mentioned milestone name note num orig pb ptr q ref reg resp rs sic soCalled term time title unclear

figures: figure formula

header: idno

linking: anchor seg

tagdocs: att code gi ident val

character data

Example

[q] My dear <rs type="person">Mr. Bennet</rs>, </q> said <rs type="person">his lady</rs> to him one day, <q>have you heard that <rs type="place">Netherfield Park</rs> is let at last?</q>

Content model

```
<content>
<macroRef key="macro.phraseSeq"/>
</content>
```

Schema Declaration

```
element rs
{
    att.global.attributes,
    att.naming.attributes,
}
<s> (s-unit) contains a sentence-like division of a text. [17.1. Linguistic Segment Categories 8.4.1. Segmentation]

Module analysis
Attributes Attributes att.global (@xml:id, @n, @xml:lang, @xml:space)
(att.global.rendition (@rend)) (att.global.linking (@corresp, @next, @prev))
(att.global.analytic (@ana)) (att.global.facs (@facs)) (att.global.responsibility (@cert, @resp))
(att.global.source (@source)) att.segLike (@function) (att.datcat (@datcat, @valueDatcat))
(att.fragmentable (@part)) att.typed (@type, @subtype)
att.notated (@notation)

Member of model.segLike

Contains by
analysis: s

core: abbr add addrLine author bibl biblScope corr date del editor emph expand foreign
gloss head hi item label mentioned name note num orig p pubPlace publisher q ref
reg rs sic soCalled speaker stage term time title unclear

figures: cell

header: change distributor edition extent licence

linking: seg

tagdocs: eg

textstructure: byline closer dateline docAuthor docDate docEdition docImprint
imprimatur opener salute signed titlePart trailer

May contain
analysis: interp interpGrp pc s w

core: abbr add address choice cit corr date del emph expand foreign gap gloss graphic hi
index lb mentioned milestone name note num prig pb ptr q ref reg rs sic soCalled
term time title unclear

figures: figure formula

header: idno

linking: anchor seg

tagdocs: att code gi ident val

character data

Note The <s> element may be used to mark orthographic sentences, or any other
segmentation of a text, provided that the segmentation is end-to-end, complete, and
non-nesting. For segmentation which is partial or recursive, the <seg> should be
used instead.

The type attribute may be used to indicate the type of segmentation intended,
according to any convenient typology.

Example

<head>
  <s>A short affair</s>
</head>

<s>When are you leaving?</s>
<s>Tomorrow.</s>
Schematron <s:report test="tei:s">You may not nest one s element within another: use seg instead</s:report>

Content model

```xml
<content>
  <macroRef key="macro.phraseSeq"/>
</content>
```

Schema Declaration

```xml
element s
{
  att.global.attributes,
  att.segLike.attributes,
  att.typed.attributes,
  att.notated.attributes,
  macro.phraseSeq
}
```

<salute> (salutation) contains a salutation or greeting prefixed to a foreword, dedicatory epistle, or other division of a text, or the salutation in the closing of a letter, preface, etc. [4.2.2. Openers and Closers]

Module textstructure

**Attributes**
- att.global (xml:id, @n, xml:lang, xml:space)
- att.global.rendition (@rend)
- att.global.linking (@corresp, @next, @prev)
- att.global.analytic (@ana)
- att.global.facs (@facs)
- att.global.responsibility (@cert, @resp)
- att.global.source (@source)
- att.written (@hand)

**Member of** model.divWrapper

**Contained by**
- core:  lg list
- figures:  figure table
textstructure:  body closer div front group opener

**May contain**
- analysis:  interp interpGrp pc s w
core:  abbr add address bibl choice cit corr date del desc emph expand foreign gap gloss graphic hi index l label lb lg list listBibl mentioned milestone name note num orig pb ptr q ref reg rs sic soCalled stage term time title unclear
- figures:  figure formula table
- header:  idno
- linking:  anchor seg
tagdocs:  att code eg gi ident val

**character data**

**Example**

```xml
<salute> To all courteous mindes, that will vouthsafe the readinge. </salute>
```

Content model

```xml
<content>
  <macroRef key="macro.paraContent"/>
</content>
```
A LIST OF ELEMENTS DESCRIBED

<content/>

Schema Declaration

element salute
{
    att.global.attributes,
    att.written.attributes,
    macro.paraContent}

<samplingDecl>
(sampling declaration) contains a prose description of the rationale
and methods used in sampling texts in the creation of a corpus or collection.

Module header
Attributes
att.global (@xml:id, @n, @xml:lang, @xml:space)
(att.global.rendition (@rend)) (att.global.linking (@corresp, @next, @prev))
(att.global.analytic (@ana)) (att.global.facs (@facs)) (att.global.responsibility
(@cert, @resp)) (att.global.source (@source)) att.declarable (@default)

Member of model.encodingDescPart

Contained by
header: encodingDesc

May contain
core: p

Note
This element records all information about systematic inclusion or omission of
portions of the text, whether a reflection of sampling procedures in the pure sense or
of systematic omission of material deemed either too difficult to transcribe or not of
sufficient interest.

Example

<samplingDecl>
<p>Samples of up to 2000 words taken at random from the beginning, middle,
or end of each
text identified as relevant by respondents.</p>
</samplingDecl>

Content model

<content>
<classRef key="model.pLike" minOccurs="1"
maxOccurs="unbounded"/>
</content>

Schema Declaration

element samplingDecl
{
    att.global.attributes,
    att.declarable.attributes,
    model.pLike+}
(<seg>) (arbitrary segment) represents any segmentation of text below the chunk level. [16.3. Blocks, Segments, and Anchors 6.2. Components of the Verse Line 7.2.5. Speech Contents]

Module linking

Attributes Attributes att.global (@xml:id, @n, @xml:lang, @xml:space)
(att.global.rendition (@rend)) (att.global.linking (@corresp, @next, @prev))
(att.global.analytic (@ana)) (att.global.facets (@facets)) (att.global.responsibility)
(@cert, @resp)) (att.global.source (@source)) att.segLike (@function) att.datcat
(@datcat, @valueDatcat) (att.fragmentable (@part)) att.typed (@type, @subtype)
att.global.linking (@corresp, @next, @prev))
(att.global.analytic (@ana))
(att.global.linking (@corresp, @next, @prev))
(att.global.analytic (@ana))
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(att.global.linking (@corresp, @next, @prev))
(att.global.analytic (@ana))
(att.global.linking (@corresp, @next, @prev))
(at...
A LIST OF ELEMENTS DESCRIBED

Example

```xml
<seg type="preamble">
  <seg>Sigmund, <seg type="patronym">the son of Volsung</seg>, was a king in Frankish country.</seg>
  <seg>Sinfiotli was the eldest of his sons ...</seg>
  <seg>Borghild, Sigmund’s wife, had a brother ...</seg>
</seg>
```

Content model

```xml
<content>
  <macroRef key="macro.paraContent"/>
</content>
```

Schema Declaration

```xml
element seg {
  att.global.attributes,
  att.segLike.attributes,
  att.typed.attributes,
  att.written.attributes,
  att.notated.attributes,
  macro.paraContent
}
```

``<seriesStmt>` (series statement) groups information about the series, if any, to which a publication belongs. [2.2.5. The Series Statement] [2.2. The File Description]

Module header

Attributes

- att.global (xml:id, @n, @xml:lang, @xml:space)
- att.global.rendition (@rend)
- att.global.linking (@corresp, @next, @prev)
- att.global.analytic (@ana)
- att.global.facs (@facs)
- att.global.responsibility (@cert, @resp)
- att.global.source (@source)
- att.declarable (@default)

Contained by

header: fileDesc

May contain

core: biblScope editor respStmt title

Example

```xml
<seriesStmt>
  <title>Machine-Readable Texts for the Study of Indian Literature</title>
  <respStmt>
    <resp>ed. by</resp>
    <name>Jan Gonda</name>
  </respStmt>
  <biblScope unit="volume">1.2</biblScope>
  <idno type="ISSN">0 345 6789</idno>
</seriesStmt>
```

Content model

```xml
<content>
  <alternate>
    <classRef key="model.pLike" minOccurs="1"/>
  </alternate>
</content>
```
Schema Declaration

```xml
<sequence>
  <elementRef key="title" minOccurs="1"
    maxOccurs="unbounded"/>
  <alternate minOccurs="0"
    maxOccurs="unbounded">
    <elementRef key="editor"/>
    <elementRef key="respStmt"/>
  </alternate>
  <alternate minOccurs="0"
    maxOccurs="unbounded">
    <elementRef key="idno"/>
    <elementRef key="biblScope"/>
  </alternate>
</sequence>
</altref>
</content>
```

**Module core**

**Attributes**

stdlib (`@xml:id`, `@n`, `@xml:lang`, `@xml:space`)

- `@xml:id`
- `@n`
- `@xml:lang`
- `@xml:space`

stdlib (`@rend`) (stdlib linking (`@corresp`, `@next`, `@prev`))

- `@rend`
- `@corresp`
- `@next`
- `@prev`

stdlib analytic (`@ana`) (stdlib facs (`@facs`)) (stdlib responsibility (`@cert`, `@resp`)) (stdlib source (`@source`))

- `@ana`
- `@facs`
- `@cert`
- `@resp`
- `@source`

**Member of** model.choicePart model.pPart.transcriptional

**Contained by**

- core:
  - abbr
  - add
  - addrLine
  - author
  - bibl
  - biblScope
  - choice
  - corr
  - date
  - del
  - editor
  - emph
  - expan
  - foreign
  - gloss
  - head
  - item
  - label
  - mentioned
  - name
  - note
  - num
  - orig
  - p
  - pubPlace
  - publisher
  - q
  - ref
  - reg
  - rs
  - sic
  - soCalled
  - speaker
  - stage
  - term
  - time
  - title
  - unclear

- figures:
  - cell

- header:
  - change
  - distributor
  - edition
  - extent
  - licence

- linking:
  - seg

- tagdocs:
  - eg

- textstructure:
  - byline
  - closer
  - dateline
  - docAuthor
  - docDate
  - docEdition
  - docImprint
  - imprimatur
  - opener
  - salute
  - signed
  - titlePart
  - trailer

**May contain**

- analysis:
  - interp
  - interpGrp
  - pc
  - s
  - w

- core:
  - abbr
  - add
  - address
  - bibli
  - choice
  - cit
  - corr
  - date
  - del
  - desc
  - emph
  - expan
  - foreign
  - gap
  - gloss
  - graphic
  - hi
  - index
  - lb
  - lg
  - list
  - listBibl
  - mentioned
  - milestone
  - name
  - note
  - num
  - orig
  - ph
  - ptr
  - q
  - ref
  - reg
  - rs
  - sic
  - soCalled
  - stage
  - term
  - time
  - title
  - unclear

**<sic>** (Latin for thus or so) contains text reproduced although apparently incorrect or inaccurate. [3.5.1. Apparent Errors]
A LIST OF ELEMENTS DESCRIBED

figures: figure formula table
header: idno
linking: anchor seg
tagdocs: att code eg gi ident val

Example

for his nose was as sharp as
a pen, and <sic>a Table</sic> of green fields.

Example

If all that is desired is to call attention to the apparent problem in the copy text,
<sic> may be used alone:

I don't know, Juan. It's so far in the past now
- how <sic>we can</sic> prove or disprove anyone's theories?

Example

It is also possible, using the <choice> and <corr> elements, to provide a
corrected reading:

I don't know, Juan. It's so far in the past now
- how <choice>
  <corr>prove or disprove anyone's theories?</corr>
</choice>

Example

for his nose was as sharp as
a pen, and <choice>
  <corr>a' babbd</corr>
</choice> of green fields.

Content model

<content>
  <macroRef key="macro параContent"/>
</content>

Schema Declaration

element sic { att.global.attributes, macro параContent }

<signed> (signature) contains the closing salutation, etc., appended to a foreword,
dedicatory epistle, or other division of a text. [4.2.2. Openers and Closers]

Module textstructure

Attributes Attributes att.global (@xml:id, @n, @xml:lang, @xml:space)
  (att.global.rendition (@rend)) (att.global.linking (@corresp, @next, @prev))
  (att.global.analytic (@ana)) (att.global.facet (@facets)) (att.global.responsibility
  (@cert, @resp)) (att.global.source (@source)) att.written (@hand)

Member of model.divBottomPart model.divTopPart

Contained by

core: lg list
figures: figure table
The document contains an example of the `signed` tag, which is used to indicate the person who has signed something. The `closer` tag is also used to indicate the end of a section.

The `content` element contains a reference to a macro named `macro.paraContent`.

The `signed` tag is defined in the schema declaration as follows:

```xml
<signed>Thine to command <name>Humph. Moseley</name></signed>
```

```xml
<closer>
  <signed>Sign'd and Seal'd,
  </signed>
  <list>
    <item>John Bull,</item>
    <item>Nic. Frog.</item>
  </list>
</closer>
```

The `signed` tag contains attributes for global rendering, global linking, and global responsibility.

The `facs` and `source` attributes are also defined.

The `so-called` construct is used to indicate a disclaiming of responsibility, often done with scare quotes or italics.
A LIST OF ELEMENTS DESCRIBED

core: abbr add addrLine author bibl biblScope corr date del desc editor emph expan foreign gloss head hi item label mentioned name note num orig p pubPlace publisher q ref reg resp rs sic soCalled speaker stage term time title unclear

figures: cell figDesc

header: authority catDesc change classCode creation distributor edition extent funder language licence principal sponsor

linking: seg

tagdocs: eg

textstructure: byline closer dateline docAuthor docDate docEdition docImprint imprimatur opener salute signed titlePart trailer

May contain

analysis: interp interpGrp p c w

core: abbr add address choice cit corr date del emph expan foreign gap gloss graphic hi index lb mentioned milestone name note num orig pb ptr q ref reg resp rs sic soCalled term time title unclear

figures: figure formula

header: idno

linking: anchor seg

tagdocs: att code gi ident val

character data

Example

To edge his way along the crowded paths of life, warning all human sympathy to keep its distance, was what the knowing ones call <soCalled>nuts</soCalled> to Scrooge.

Content model

```xml
<content>
  <macroRef key="macro.phraseSeq"/>
</content>
```

Schema Declaration

```
<sourceDesc>
  (source description) describes the source(s) from which an electronic text was derived or generated, typically a bibliographic description in the case of a digitized text, or a phrase such as "born digital" for a text which has no previous existence.  [2.2.7. The Source Description]
</sourceDesc>

Module header

Attributes Attributes att.global ( @xml:id, @n, @xml:lang, @xml:space)
  (att.global.rendition ( @rend)) (att.global.linking ( @corresp, @next, @prev))
  (att.global.analytic ( @ana)) (att.global.fac ( @facs)) (att.global.responsibility ( @cert, @resp)) (att.global.source ( @source)) att.declarable ( @default)

Contained by

header: fileDesc

May contain
core: bibl list listBibl p
figures: table

Example

```
<sourceDesc>
  <bibl>
    <title level="a">The Interesting story of the Children in the Wood</title>. In 
    <author>Victor E Neuberg</author>, <title>The Penny Histories</title>. 
    <publisher>OUP</publisher>
    <date>1968</date>. </bibl>
</sourceDesc>
```

Example

```
<sourceDesc>
  <p>Born digital: no previous source exists.</p>
</sourceDesc>
```

Content model

```
<content>
  <alternate>
    <classRef key="model.pLike" minOccurs="1" 
              maxOccurs="unbounded"/>
    <alternate minOccurs="1" 
              maxOccurs="unbounded">
      <classRef key="model.biblLike"/>
      <classRef key="model.sourceDescPart"/>
      <classRef key="model.listLike"/>
    </alternate>
  </alternate>
</content>
```

Schema Declaration

```
element sourceDesc
{
  att.global.attributes,
  att.declarable.attributes,
  
  model.pLike+
  | ( model.biblLike | model.sourceDescPart | model.listLike )+
}
```

<sp> (speech) contains an individual speech in a performance text, or a passage presented as such in a prose or verse text. 3.13.2. Core Tags for Drama 3.13. Passages of Verse or Drama 7.2.2. Speeches and Speakers

Module core

Attributes Attributes att.global (@xml:id, @n, @xml:lang, @xml:space)
(att.global.rendition (@rend)) (att.global.genitef @corresp, @next, @prev))
(att.global.analytic (@ana)) (att.global.facs (@facs)) (att.global.responsibility
(@cert, @resp)) (att.global.source (@source)) att.ascribed.directed (@toWhom)
(att.ascribed (@who))

Member of model.divPart
A LIST OF ELEMENTS DESCRIBED

Contained by

core: item note q stage
figures: cell figure
header: change licence

textstructure: argument body div epigraph postscript

May contain

analysis: interp interpGrp
core: cit gap index lb lg list milestone note p pb q speaker stage
figures: figure table
linking: anchor

Note The who attribute on this element may be used either in addition to the <speaker> element or as an alternative.

Example

```xml
<sp>
  <speaker>The reverend Doctor Opimian</speaker>
  <p>I do not think I have named a single unpresentable fish.</p>
</sp>

<sp>
  <speaker>Mr Gryll</speaker>
  <p>Bream, Doctor: there is not much to be said for bream.</p>
</sp>

<sp>
  <speaker>The Reverend Doctor Opimian</speaker>
  <p>On the contrary, sir, I think there is much to be said for him. In the first place [...]</p>
  <p>Fish, Miss Gryll — I could discourse to you on fish by the hour: but for the present I will forbear [...]</p>
</sp>
```

Content model

```xml
<content>
  <sequence>
    <classRef key="model.global" minOccurs="0" maxOccurs="unbounded"/>
    <sequence minOccurs="0">
      <elementRef key="speaker"/>
      <classRef key="model.global" minOccurs="0" maxOccurs="unbounded"/>
    </sequence>
    <sequence minOccurs="1" maxOccurs="unbounded">
      <alternate>
        <elementRef key="lg"/>
        <classRef key="model.lLike"/>
        <classRef key="model.pLike"/>
        <classRef key="model.listLike"/>
        <classRef key="model.stageLike"/>
        <classRef key="model.attributable"/>
      </alternate>
      <alternate>
        <elementRef key="q"/>
      </alternate>
    </sequence>
  </sequence>
</content>
```
<speaker>

Contents model

Example

<sp who="#ni #rsa">
  <speaker>Nancy and Robert</speaker>
  <stage type="delivery">(speaking simultaneously)</stage>
  <p>The future? ...</p>
</sp>

<list type="speakers">
  <item xml:id="ni"/>
  <item xml:id="rsa"/>
</list>

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Schema Declaration

element sp
{
  att.global.attributes,
  att.ascribed.directed.attributes,
  {
    model.global*,
    ( speaker, model.global* )?,
    {
      lg | model.lLike | model.pLike | model.listLike
      ( model.global* | q )
    }
  }+
}

<speaker> contains a specialized form of heading or label, giving the name of one or more speakers in a dramatic text or fragment. [3.13.2. Core Tags for Drama]

Module core
Attributes Attributes

att.global (@xml:id, @n, @xml:lang, @xml:space)
  (att.global.rendition (@rend)) (att.global.linking (@corresp, @next, @prev))
  (att.global.analytic (@ana)) (att.global.facs (@facs)) (att.global.responsibility (@cert, @resp)) (att.global.source (@source))

Contained by
core: sp
May contain
analysis: interp interpGrp pc s w
core: abbr add address choice cit corr date del emph emph del emph expan foreign gap gloss graphic hi index lb mentioned milestone name note num orig pb ptr q ref reg rs sic soCalled term time title unclear
figures: figure formula
header: idno
linking: anchor seg
tagdocs: att code gi ident val

Character data

Example

<sp who="#ni #rsa">
  <speaker>Nancy and Robert</speaker>
  <stage type="delivery">(speaking simultaneously)</stage>
  <p>The future? ...</p>
</sp>

<list type="speakers">
  <item xml:id="ni"/>
  <item xml:id="rsa"/>
</list>

Content model
<sponsor> (sponsor) specifies the name of a sponsoring organization or institution.

Module header
Attributes Attributes att.global (@xml:id, @n, @xml:lang, @xml:space)
(att.global.rendition (@rend)) (att.global.linking (@corresp, @next, @prev))
(att.global.analytic (@ana)) (att.global.facs (@facs)) (att.global.responsibility
(@cert, @resp)) (att.global.source (@source)) att.canonical (@key, @ref) att.datable
(@period) (att.datable.w3c (@when))

Member of model.respLike
Contained by
core: bib
title
May contain
analysis: interp interpGrp

content:
figures: figure
header: idno
linking: anchor
tagdocs: att code gi ident val

character data

Note Sponsors give their intellectual authority to a project; they are to be distinguished
from funders (see element <funder>), who provide the funding but do not
necessarily take intellectual responsibility.

Example
<sponsor>Association for Computers and the Humanities</sponsor>
<sponsor>Association for Computational Linguistics</sponsor>
<sponsor>Association for Literary and Linguistic Computing</sponsor>

Content model

<sponsor>Association for Computers and the Humanities</sponsor>
<sponsor>Association for Computational Linguistics</sponsor>
<sponsor>Association for Literary and Linguistic Computing</sponsor>
<stage> (stage direction) contains any kind of stage direction within a dramatic text or fragment. [3.13.2. Core Tags for Drama 3.13. Passages of Verse or Drama 7.2.4. Stage Directions]

Module core
Attributes Attributes att.ascribed.directed (toWhom) att.ascribed (who) att.global (@xml:id, @n, @xml:lang, @xml:space) (att.global.rendition (@rend)) (att.global.neighbor (@corresp, @next, @prev)) (att.global.analytic (@ana)) (att.global.facs (@facs)) (att.global.responsibility (@cert, @resp)) (att.global.source (@source)) att.placement (@place)

@type indicates the kind of stage direction.

Status Recommended

Datatype 0–∞ occurrences of teidata.enumerated separated by whitespace

Suggested values include:
- setting describes a setting.
- entrance describes an entrance.
- exit describes an exit.
- business describes stage business.
- novelistic is a narrative, motivating stage direction.
- delivery describes how a character speaks.
- modifier gives some detail about a character.
- location describes a location.
- mixed more than one of the above

Note If the value mixed is used, it must be the only value. Multiple values may however be supplied if a single stage direction performs multiple functions, for example is both an entrance and a modifier.

Member of model.stageLike

Contained by
core: add corr del desc emph hi item lg note orig p q ref reg sic sp stage title unclear
figures: cell figDesc figure
header: change licence
linking: seg
textstructure: argument body div docEdition epigraph imprimatur postscript salute signed titlePart trailer

May contain
analysis: interp interpGrp pc s w
core: abbr add address bibl choice cit corr date del desc emph expan foreign gap gloss graphic hi index l label lb lg list listBibl mentioned milestone name note num orig p pb ptr q ref rs sic soCalled sp stage term time title unclear
figures: figure formula table
header: idno
A LIST OF ELEMENTS DESCRIBED

linking: anchor seg
tagdocs: att code eg gi ident val

character data

Note The who attribute may be used to indicate more precisely the person or persons participating in the action described by the stage direction.

Example

```
<stage type="setting">A curtain being drawn.</stage>
<stage type="setting">Music</stage>
<stage type="entrance">Enter Husband as being thrown off his horse and falls.</stage>
<!-- Middleton : Yorkshire Tragedy -->
<stage type="exit">Exit pursued by a bear.</stage>
<stage type="business">He quickly takes the stone out.</stage>
<stage type="delivery">To Lussurioso.</stage>
<stage type="novelistic">Having had enough, and embarrassed for the family.</stage>
<!-- Lorraine Hansbury : a raisin in in the sun -->
<stage type="modifier">Disguised as Ansaldo.</stage>
<stage type="entrance modifier">Enter Latrocinio disguised as an empiric</stage>
<!-- Middleton: The Widow -->
<stage type="location">At a window.</stage>
<stage rend="inline" type="delivery">Aside.</stage>
```

Example

```
Behold. <stage n="*" place="margin">Here the vp<lb/>per part of the <hi>Scene</hi> open'd; when straight appear'd a Heauen, and all the <hi>Pure Artes</hi> sitting on two semi<lb/>circular ben<lb/>ches, one a<lb/>boue another: who sate thus till the rest of the <hi>Prologue</hi> was spoken, which being ended, they descended in order within the <hi>Scene</hi> whiles the Musicke plaid</stage> Our Poet knowing our free hearts</l>
```

Content model

```
<content>
 <macroRef key="macro.specialPara"/>
</content>
```

Schema Declaration

```
element stage
{
  att.ascribed.directed.attributes,
  att.global.attributes,
  att.placement.attributes,
  attribute type
  {
    list
    {
      "setting"
      "entrance"
      "exit"
      "business"
      "novelistic"
      "delivery"
    }
  }
}
```
<table>
<table>
<thead>
<tr>
<th>&quot;modifier&quot;</th>
<th>&quot;location&quot;</th>
<th>&quot;mixed&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
}
|            |

macro.specialPara

<table> (table) contains text displayed in tabular form, in rows and columns. [14.1.1. TEI Tables]

Module figures

Attributes Attributes att.global (@xml:id, @n, @xml:lang, @xml:space)
(att.global.rendition (@rend)) (att.global.linking (@corresp, @next, @prev))
(att.global.analytic (@ana)) (att.global.facs (@facs)) (att.global.responsibility
(@cert, @resp)) (att.global.source (@source)) att.typed (@type, @subtype)

@rows (rows) indicates the number of rows in the table.

Status Optional

Datatype teidata.count

Note If no number is supplied, an application must calculate the number of rows.

Rows should be presented from top to bottom.

@cols (columns) indicates the number of columns in each row of the table.

Status Optional

Datatype teidata.count

Note If no number is supplied, an application must calculate the number of columns.

Within each row, columns should be presented left to right.

Member of model.listLike

Contained by core: add corr del desc emph head hi item l note orig p q ref reg sic sp stage title unclear
figures: cell figDesc figure
header: change licence sourceDesc
linking: seg
textstructure: argument back body div docEdition epigraph imprimatur postscript salute
signed titlePart trailer

May contain analysis: interp interpGrp
core: gap graphic head index lb milestone note pb
figures: figure formula row
linking: anchor
textstructure: argument byline closer dateline docAuthor docDate epigraph postscript salute signed trailer

Note Contains an optional heading and a series of rows.

Any rendition information should be supplied using the global rend attribute, at the table, row, or cell level as appropriate.

Example
A LIST OF ELEMENTS DESCRIBED

<table>
<thead>
<tr>
<th>Dossing Cribs or Lodging Houses</th>
<th>Beds</th>
<th>Needys or Nightly Lodgers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bury St Edmund's</td>
<td>5</td>
<td>8</td>
</tr>
<tr>
<td>Thetford</td>
<td>3</td>
<td>6</td>
</tr>
<tr>
<td>Attleboro'</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>Wymondham</td>
<td>1</td>
<td>11</td>
</tr>
</tbody>
</table>

Content model

```xml
<content>
  <sequence>
    <alternate minOccurs="0" maxOccurs="unbounded">
      <classRef key="model.headLike"/>
      <classRef key="model.global"/>
    </alternate>
    <alternate minOccurs="1" maxOccurs="unbounded">
      <elementRef key="row"/>
      <classRef key="model.global" minOccurs="0" maxOccurs="unbounded"/>
    </sequence>
    <sequence minOccurs="1" maxOccurs="unbounded">
      <classRef key="model.graphicLike"/>
      <classRef key="model.global" minOccurs="0" maxOccurs="unbounded"/>
    </sequence>
    <sequence minOccurs="0" maxOccurs="unbounded">
      <classRef key="model.divBottom"/>
      <classRef key="model.global" minOccurs="0" maxOccurs="unbounded"/>
    </sequence>
  </alternate>
</content>
```
Schema Declaration

element table
{
    att.global.attributes,
    att.typed.attributes,
    attribute rows { text }?,
    attribute cols { text }?,
    ( ( model.headLike | model.global )*,
    ( row, model.global* )+ | ( model.graphicLike, model.global* )+ ),
    ( model.divBottom, model.global* )* }

<taxonomy> (taxonomy) defines a typology either implicitly, by means of a bibliographic citation, or explicitly by a structured taxonomy. [2.3.7. The Classification Declaration]

Module header
Attributes
att.global (@xml:id, @n, @xml:lang, @xml:space)
( att.global.rendition (@rend) ) ( att.global.linking ( @corresp, @next, @prev ) )
( att.global.analytic ( @ana ) ) ( att.global.facs ( @facs ) ) ( att.global.responsibility ( @cert, @resp ) ) ( att.global.source ( @source ) )

Contained by
header: classDecl taxonomy

May contain
core: bibl desc gloss listBibl

header: category taxonomy

Note Nested taxonomies are common in many fields, so the <taxonomy> element can be nested.

Example

<taxonomy xml:id="tax.b">
    <bibl>Brown Corpus</bibl>
    <category xml:id="tax.b.a">
        <catDesc>Press Reportage</catDesc>
    </category>
    <category xml:id="tax.b.a1">
        <catDesc>Daily</catDesc>
    </category>
    <category xml:id="tax.b.a2">
        <catDesc>Sunday</catDesc>
    </category>
    <category xml:id="tax.b.a3">
        <catDesc>National</catDesc>
    </category>
    <category xml:id="tax.b.a4">
        <catDesc>Provincial</catDesc>
    </category>
    <category xml:id="tax.b.a5">

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A LIST OF ELEMENTS DESCRIBED

Example

<taxonomy xml:id="literature">
  <category xml:id="poetry">
    <catDesc>Poetry</catDesc>
    <category xml:id="sonnet">
      <catDesc>Sonnet</catDesc>
      <category xml:id="shakesSonnet">
        <catDesc>Shakespearian Sonnet</catDesc>
      </category>
      <category xml:id="petraSonnet">
        <catDesc>Petrarchan Sonnet</catDesc>
      </category>
    </category>
    <category xml:id="haiku">
      <catDesc>Haiku</catDesc>
    </category>
  </category>
  <category xml:id="drama">
    <catDesc>Drama</catDesc>
  </category>
  <category xml:id="meter">
    <catDesc>Metrical Categories</catDesc>
    <category xml:id="feet">
      <catDesc>Metrical Feet</catDesc>
    </category>
    <category xml:id="iambic">
      <catDesc>Iambic</catDesc>
    </category>
    <category xml:id="trochaic">
      <catDesc>Trochaic</catDesc>
    </category>
    <category xml:id="feetNumber">
      <catDesc>Number of feet</catDesc>
    </category>
    <category xml:id="pentameter">
      <catDesc>Pentameter</catDesc>
    </category>
    <category xml:id="tetrameter">
      <catDesc>Tetrameter</catDesc>
    </category>
  </category>
</taxonomy>
Content model

```xml
<content>
  <alternate>
    <alternate minOccurs="1" maxOccurs="unbounded">
      <elementRef key="category"/>
      <elementRef key="taxonomy"/>
    </alternate>
    <sequence>
      <alternate minOccurs="1" maxOccurs="unbounded">
        <classRef key="model.descLike" minOccurs="1" maxOccurs="1"/>
        <elementRef key="equiv" minOccurs="1" maxOccurs="1"/>
        <elementRef key="gloss" minOccurs="1" maxOccurs="1"/>
      </alternate>
      <alternate minOccurs="0" maxOccurs="unbounded">
        <elementRef key="category"/>
        <elementRef key="taxonomy"/>
      </alternate>
    </sequence>
  </alternate>
  <sequence>
    <classRef key="model.biblLike"/>
    <alternate minOccurs="0" maxOccurs="unbounded">
      <elementRef key="category"/>
      <elementRef key="taxonomy"/>
    </alternate>
  </sequence>
</alternate>
</content>
```

Schema Declaration

```xml
element taxonomy{
  att.global.attributes,
  (
    ( category | taxonomy )+
    | ( ( model.descLike | equiv | gloss )+, ( category | taxonomy )* )
    | ( model.biblLike, ( category | taxonomy )* )
  )
}
```
A LIST OF ELEMENTS DESCRIBED

<teiCorpus> (TEI corpus) contains the whole of a TEI encoded corpus, comprising a single corpus header and one or more <TEI> elements, each containing a single text header and a text. [4. Default Text Structure | 15.1. Varieties of Composite Text]

Module core
Attributes Attributes
att.global ( @xml:id, @n, @xml:lang, @xml:space)
(att.global.rendition ( @rend)) (att.global.linking ( @corresp, @next, @prev))
(att.global.analytic ( @ana)) (att.global.facs ( @facs)) (att.global.responsibility ( @cert, @resp)) (att.global.source ( @source)) att.typed ( @type, @subtype)

@version (version) specifies the version number of the TEI Guidelines against which this document is valid.
Status Optional
Datatype teidata.version

Note Major editions of the Guidelines have long been informally referred to by a name made up of the letter P (for Proposal) followed by a digit. The current release is one of the many releases of the fifth major edition of the Guidelines, known as P5. This attribute may be used to associate a TEI document with a specific release of the P5 Guidelines, in the absence of a more precise association provided by the source attribute on the associated <schemaSpec>.

Member of model.describedResource
Contained by
core: teiCorpus
May contain
core: teiCorpus
header: teiHeader
textstructure: TEI text

Note Should contain one TEI header for the corpus, and a series of <TEI> elements, one for each text.

Example

<teiCorpus version="3.3.0" xmlns="http://www.tei-c.org/ns/1.0">
  <teiHeader/>
  <!-- header for corpus -->
  </teiHeader>
  <TEI>
    <teiHeader/>
    <!-- header for first text -->
    </teiHeader>
    <text>
    <!-- content of first text -->
    </text>
  </TEI>
  <TEI>
    <teiHeader/>
    <!-- header for second text -->
    </teiHeader>
    <text>
    <!-- content of second text -->
    </text>
  </TEI>
</teiCorpus>
Content model

```xml
<content>
  <sequence>
    <elementRef key="teiHeader"/>
    <classRef key="model.resource"
      minOccurs="0" maxOccurs="unbounded"/>
    <classRef key="model.describedResource"
      minOccurs="1" maxOccurs="unbounded"/>
  </sequence>
</content>
```

Schema Declaration

```xml
element teiCorpus
{
  att.global.attributes,
  att.typed.attributes,
  attribute version { text }?,
  ( teiHeader, model.resource*, model.describedResource+ )
}
```

**<teiHeader>** (TEI header) supplies descriptive and declarative metadata associated with a digital resource or set of resources. [2.1.1. The TEI Header and Its Components](#)]

**Module header**

**Attributes**

<table>
<thead>
<tr>
<th>Attributes</th>
<th>att.global (@xml:id, @n, @xml:lang, @xml:space)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(att.global.rendition (@rend)) (att.global-linking (@corresp, @next, @prev))</td>
</tr>
<tr>
<td></td>
<td>(att.global.analytic (@ana)) (att.global.facs (@facs)) (att.global.responsibility)</td>
</tr>
<tr>
<td></td>
<td>(@cert, @resp) (att.global.source (@source))</td>
</tr>
</tbody>
</table>

**Contained by**

core: teiCorpus

textstructure: TEI

**May contain**

header: encodingDesc fileDesc profileDesc revisionDesc

**Note** One of the few elements unconditionally required in any TEI document.

**Example**

```xml
<teiHeader>
  <fileDesc>
    <titleStmt>
      <title>Shakespeare: the first folio (1623) in electronic form</title>
      <author>Shakespeare, William (1564–1616)</author>
      <respStmt>
        <resp>Originally prepared by</resp>
        <name>Trevor Howard-Hill</name>
      </respStmt>
      <respStmt>
        <resp>Revised and edited by</resp>
        <name>John Smith</name>
      </respStmt>
    </titleStmt>
  </fileDesc>
</teiHeader>
```
A LIST OF ELEMENTS DESCRIBED

Christine Avern-Carr

The first folio of Shakespeare, prepared by Charlton Hinman (The Norton Facsimile, 1968)

Originally prepared for use in the production of a series of old-spelling concordances in 1968, this text was extensively checked and revised for use during the editing of the new Oxford Shakespeare (Wells and Taylor, 1989).

Turned letters are silently corrected. Normalization: Original spelling and typography is retained, except that long s and ligatured forms are not encoded.

A reference is created by assembling the following, in the reverse order as that listed here:

- the @n value of the preceding @lb
- a period
- the @n value of the ancestor @div2
- a space
- the @n value of the parent @div1

A reference is created by assembling the following, in the reverse order as that listed here:
<item>
  <date when="1989-03-01">1 Mar 89</date> LB made new file</item>
</list>
</revisionDesc>
</teiHeader>

Content model

```xml
<content>
  <sequence>
    <elementRef key="fileDesc"/>
    <classRef key="model.teiHeaderPart" minOccurs="0" maxOccurs="unbounded"/>
    <elementRef key="revisionDesc" minOccurs="0"/>
  </sequence>
</content>
```

Schema Declaration

```xml
element teiHeader
{
    att.global.attributes,
    ( fileDesc, model.teiHeaderPart*, revisionDesc? )
}
```

**<term>** (term) contains a single-word, multi-word, or symbolic designation which is regarded as a technical term. [3.4.1. Terms and Glosses](#)

**Module core**

Attributes

- `att.global.attributes`<br/>
  - `@xml:id`, `@n`, `@xml:lang`, `@xml:space`
  - `att.global.rendition (@rend)`, `att.global.linking (@corresp, @next, @prev)`
  - `att.global.analytic (@ana)`, `att.global.facs (@facs)`, `att.global.responsibility (@cert, @resp)`, `att.global.source (@source)`, `att.declaring (@decls)`, `att.pointing (@targetLang, @target, @evaluate)`, `att.typed (@type, @subtype)`, `att.canonical (@key, @ref)`, `att.sortable (@sortKey)`, `att.cReferencing (@cRef)`

Member of `model.emphLike`

**Contained by**

- `core`:
  - `abbr`, `add`, `addrLine`, `author`, `bibl`, `biblScope`, `corr`, `date`, `del`, `desc`, `editor`, `emph`, `expan`, `foreign`, `gloss`, `head`, `hi`, `index`, `item`, `label`, `mentioned`, `name`, `note`, `num`, `orig`, `p`, `pubPlace`, `publisher`, `q`, `ref`, `reg`, `resp`, `rs`, `sic`, `soCalled`, `speaker`, `stage`, `term`, `title`, `unclear`

- `figures`:
  - `cell`, `figDesc`

- `header`:
  - `authority`, `catDesc`, `change`, `classCode`, `creation`, `distributor`, `edition`, `extent`, `funder`, `keywords`, `language`, `licence`, `principal`, `sponsor`

- `linking`:
  - `seg`

- `tagdocs`:
  - `eg`

- `textstructure`:
  - `byline`, `closer`, `dateline`, `docAuthor`, `docDate`, `docEdition`, `docImprint`, `imprimatur`, `opener`, `salute`, `signed`, `titlePart`, `trailer`

**May contain**

- `analysis`:
  - `interp`, `interpGrp`, `pc`, `s`, `w`
A LIST OF ELEMENTS DESCRIBED

Note: When this element appears within an `<index>` element, it is understood to supply the form under which an index entry is to be made for that location. Elsewhere, it is understood simply to indicate that its content is to be regarded as a technical or specialised term. It may be associated with a `<gloss>` element by means of its `ref` attribute; alternatively a `<gloss>` element may point to a `<term>` element by means of its `target` attribute.

In formal terminological work, there is frequently discussion over whether terms must be atomic or may include multi-word lexical items, symbolic designations, or phraseological units. The `<term>` element may be used to mark any of these. No position is taken on the philosophical issue of what a term can be; the looser definition simply allows the `<term>` element to be used by practitioners of any persuasion.

As with other members of the att.canonical class, instances of this element occurring in a text may be associated with a canonical definition, either by means of a URI (using the `ref` attribute), or by means of some system-specific code value (using the `key` attribute). Because the mutually exclusive `target` and `cRef` attributes overlap with the function of the `ref` attribute, they are deprecated and may be removed at a subsequent release.

Example

A computational device that infers structure from grammatical strings of words is known as a `<term>` parser</term>, and much of the history of NLP over the last 20 years has been occupied with the design of parsers.

Example

We may define `<term xml:id="TDPV1" rend="sc">discoursal point of view</term>` as `<gloss target="#TDPV1">the relationship, expressed through discourse structure, between the implied author or some other addressee, and the fiction.</gloss>

Example

We may define `<term ref="#TDPV2" rend="sc">discoursal point of view</term>` as `<gloss xml:id="TDPV2">the relationship, expressed through discourse structure, between the implied author or some other addressee, and the fiction.</gloss>

Example

We discuss Leech’s concept of
discoursal point of view below.

Content model

```xml
<content>
  <macroRef key="macro.phraseSeq"/>
</content>
```

Schema Declaration

```xml
element term {
  att.global.attributes,
  att.declaring.attributes,
  att.pointing.attributes,
  att.typed.attributes,
  att.canonical.attributes,
  att.sortable.attributes,
  att.cReferencing.attributes,
  macro.phraseSeq}
```

(text) contains a single text of any kind, whether unitary or composite, for example a poem or drama, a collection of essays, a novel, a dictionary, or a corpus sample. [4. Default Text Structure 15.1. Varieties of Composite Text]

Module textstructure

Attributes:

- att.global (@xml:id, @n, @xml:lang, @xml:space)
  (att.global.rendition (@rend))
  (att.global.linking (@corresp, @next, @prev))
- att.global.analytic (@ana)
- att.global.facs (@facs)
- att.global.responsibility (@cert, @resp)
- att.global.source (@source)
- att.declaring (@decls)
- att.typed (@type, @subtype)
- att.written (@hand)

Member of model.resource

Contained by

- core: teiCorpus
- textstructure: TEI group

May contain

- analysis: interp interpGrp
- core: gap index lb milestone note pb
- figures: figure
- linking: anchor
- textstructure: back body front group

Note: This element should not be used to represent a text which is inserted at an arbitrary point within the structure of another, for example as in an embedded or quoted narrative; the <floatingText> is provided for this purpose.

Example

```xml
<text>
  <front>
    <docTitle>
      <titlePart>Autumn Haze</titlePart>
    </docTitle>
  </front>
</text>
```
Example The body of a text may be replaced by a group of nested texts, as in the following schematic:

```
<text>
  <front></front>
  <!-- front matter for the whole group -->
  <group><text> <!-- first text --></text>
  <text> <!-- second text --></text>
</group></text>
```

Content model

```
<content>
  <sequence>
    <classRef key="model.global" minOccurs="0" maxOccurs="unbounded"/>
    <sequence minOccurs="0">
      <elementRef key="front"/>
      <classRef key="model.global" minOccurs="0" maxOccurs="unbounded"/>
    </sequence>
    <alternate>
      <elementRef key="body"/>
      <elementRef key="group"/>
    </alternate>
    <classRef key="model.global" minOccurs="0" maxOccurs="unbounded"/>
    <sequence minOccurs="0">
      <elementRef key="back"/>
      <classRef key="model.global" minOccurs="0" maxOccurs="unbounded"/>
    </sequence>
  </sequence>
</content>
```

Schema Declaration

```
<element text{
  att.global.attributes, 
  att.declaring.attributes, 
  att.typed.attributes, 
  att.written.attributes, 
  ( 
    model.global*, 
    (front, model.global*) )?, 
}
```
<textClass>
  (body | group),
  model.global*,
  (back, model.global*)?
</textClass>

(text classification) groups information which describes the nature or topic of a text in terms of a standard classification scheme, thesaurus, etc. [2.4.3.]

The Text Classification Module header

Attributes

| att.global | (@xml:id, @n, @xml:lang, @xml:space) |
| att.global.rendition | (@rend) |
| att.global.linking | (@corresp, @next, @prev) |
| att.global.analytic | (@ana) |
| att.global.facs | (@facs) |
| att.global.responsibility | (@cert, @resp) |
| att.global.source | (@source) |
| att.declarable | (@default) |

Member of model.profileDescPart

Contained by header: profileDesc

May contain header: catRef classCode keywords

Example

```xml
<taxonomy>
  <category xml:id="acprose">
    <catDesc>Academic prose</catDesc>
  </category>
</taxonomy>

<!-- other categories here -->

<taxonom

<textClass>
  <catRef target="#acprose"/>
  <classCode scheme="http://www.udcc.org">001.9</classCode>
  <keywords scheme="http://authorities.loc.gov">
    <list>
      <item>End of the world</item>
      <item>History - philosophy</item>
    </list>
  </keywords>
</textClass>

Content model

```xml
<content>
  <alternate minOccurs="0" maxOccurs="unbounded">
    <elementRef key="classCode"/>
    <elementRef key="catRef"/>
    <elementRef key="keywords"/>
  </alternate>
</content>

Schema Declaration

```xml
element textClass
{
  att.global.attributes,
```
A LIST OF ELEMENTS DESCRIBED

att.declarable.attributes,
    ( classCode | catRef | keywords )*}

<time> (time) contains a phrase defining a time of day in any format. [3.6.4. Dates and Times]

Module core

Attributes

att.global (@xml:id, @n, @xml:lang, @xml:space)
    (att.global.rendition (@rend)) (att.global.linking (@corresp, @next, @prev))
    (att.global.analytic (@ana)) (att.global.facets (@facets)) (att.global.responsibility
        (@cert, @resp)) (att.global.source (@source)) att.datable (@period) (att.datable.w3c
            (@when)) att.canonical (@key, @ref) att.editLike (@evidence, @instant)
    att.dimensions (@unit, @quantity, @extent, @precision, @scope) (att.ranging
        (@atLeast, @atMost, @min, @max, @confidence)) att.typed (@type, @subtype)

Member of model.dateLike

Contained by

analysis: s

core: abbr add addrLine author bibl biblScope corr date del desc editor emph expan
    foreign gloss head hi item l label mentioned name note num orig p pubPlace
    publisher q ref reg responsibility rs sic soCalled speaker stage term time title unclear

figures: cell figDesc

header: authority catDesc change classCode creation distributor edition extent funder
    language licence principal sponsor

linking: seg

tagdocs: eg

textstructure: byline closer dateline docAuthor docDate docEdition docImprint
    imprimatur opener salute signed titlePart trailer

May contain

analysis: interp interpGrp pc p w

core: abbr add address choice corr date del emph expan foreign gap gloss graphic hi
    index lb mentioned milestone name note num orig p pb ptr q ref reg responsibility rs
    sic soCalled term time title unclear

figures: figure formula

header: idno

linking: anchor seg

tagdocs: att code gi ident val

character data

Example

As he sat smiling, the quarter struck — <time when="11:45:00">the quarter to twelve</time>.

Content model

<content>
    <alternate minOccurs="0" maxOccurs="unbounded">
        <TextNode/>
    </alternate>
    <classRef key="model.gLike"/>
</content>
**Schema Declaration**

```xml
<element time
{
  att.global.attributes,
  att.datable.attributes,
  att.canonical.attributes,
  att.editLike.attributes,
  att.dimensions.attributes,
  att.typed.attributes,
  (text | model.gLike | model.phrase | model.global )*}
```

**Module core**

**Attributes**

- `att.global` @xml:id, @n, @xml:lang, @xml:space
- `att.global.rendition` (@rend))
- `att.global.linking` (@corresp, @next, @prev))
- `att.global.analytic` (@ana))
- `att.global.facs` (@facs))
- `att.global.responsibility` (@cert, @resp))
- `att.global.source` (@source))
- `att.datable` (@period)
- `att.datable.w3c` (@when))
- `att.typed` (@type, @subtype)

**@type** classifies the title according to some convenient typology.

**@level** indicates the bibliographic level for a title, that is, whether it identifies an article, book, journal, series, or unpublished material.
A LIST OF ELEMENTS DESCRIBED

m (monographic) the title applies to a monograph such as a book or other item considered to be a distinct publication, including single volumes of multi-volume works

j (journal) the title applies to any serial or periodical publication such as a journal, magazine, or newspaper

s (series) the title applies to a series of otherwise distinct publications such as a collection

u (unpublished) the title applies to any unpublished material (including theses and dissertations unless published by a commercial press)

Note The level of a title is sometimes implied by its context: for example, a title appearing directly within an <analytic> element is ipso facto of level a, and one appearing within a <series> element of level s. For this reason, the level attribute is not required in contexts where its value can be unambiguously inferred. Where it is supplied in such contexts, its value should not contradict the value implied by its parent element.

Member of model.emphLike
Contained by analysis: s

core: abbr add addrLine author bibl biblScope corr date del desc editor emph expan foreign gloss head hi item i label mentioned name note num orig p pubPlace publisher q ref reg resp rs sic soCalled speaker stage term time title unclear
figures: cell figDesc
header: authority catDesc change classCode creation distributor edition extent funder language licence principal seriesStmt sponsor titleStmt
linking: seg
tagdocs: eg

textstructure: byline closer dateline docAuthor docDate docEdition docImprint

imprimatur opener salute signed titlePart trailer

May contain analysis: interp interpGrp pc s w

core: abbr add address bibl choice cit corr date del desc emph expan foreign gap gloss graphic hi index il label lb lg list listBibl mentioned milestone name note num orig pb ptr q ref reg resp rs sic soCalled stage term time title unclear
figures: figure formula table

header: idno

linking: anchor seg
tagdocs: att code eg gi ident val

character data

Note The attributes key and ref, inherited from the class att.canonical may be used to indicate the canonical form for the title; the former, by supplying (for example) the identifier of a record in some external library system; the latter by pointing to an XML element somewhere containing the canonical form of the title.

Example

<title>Information Technology and the Research Process: Proceedings of
Example

<title>Hardy's Tess of the D'Urbervilles: a machine readable edition</title>

Example

<title type="full">
  <title type="main">Synthèse</title>
  <title type="sub">an international journal for epistemology, methodology and history of science</title>
</title>

Content model

```xml
<content>
  <macroRef key="macro.paraContent"/>
</content>
```

Schema Declaration

```xml
element title {
  att.global.attributes,
  att.typed.attribute.subtype,
  att.canonical.attributes,
  att.datable.attributes,
  attribute level { "a" | "m" | "j" | "s" | "u" }?,
  macro.paraContent}
```

**<titlePage>** (title page) contains the title page of a text, appearing within the front or back matter. [4.6. Title Pages]

Module textstructure

**Attributes** Attributes

- `att.global` (@xml:id, @n, @xml:lang, @xml:space)
- `att.global.rendition` (@rend)
- `att.global.linking` (@corresp, @next, @prev)
- `att.global.analytic` (@ana)
- `att.global.facs` (@facs)
- `att.global.responsibility` (@cert, @resp)
- `att.global.source` (@source)

@type classifies the title page according to any convenient typology.

*Derived from* `att.typed`

**Status** Optional

**Datatype** `teidata.enumerated`

**Note** This attribute allows the same element to be used for volume title pages, series title pages, etc., as well as for the main title page of a work.
A LIST OF ELEMENTS DESCRIBED

May contain
analysis: interp interpGrp
core: gap graphic index lb milestone note pb
figures: figure
linking: anchor
textstructure: argument byline docAuthor docDate docEdition docImprint docTitle epigraph imprimatur titlePart

Example

<titlePage>
  <docTitle>
    <titlePart type="main">THOMAS OF Reading.</titlePart>
    <titlePart type="alt">OR, The sixe worthy yeomen of the West.</titlePart>
  </docTitle>
  <docEdition>Now the fourth time corrected and enlarged</docEdition>
  <byline>By T.D.</byline>
  <figure>
    <head>TP</head>
    <p>Thou shalt labor till thou returne to duste</p>
    <figDesc>Printers Ornament used by TP</figDesc>
  </figure>
  <docImprint>Printed at <name type="place">London</name> for <name>T.P.</name> <date>1612.</date>
  </docImprint>
</titlePage>

Content model

<content>
  <sequence>
    <classRef key="model.global" minOccurs="0" maxOccurs="unbounded"/>
    <classRef key="model.titlepagePart"/>
    <alternate minOccurs="0" maxOccurs="unbounded">
      <classRef key="model.titlepagePart"/>
      <classRef key="model.global"/>
    </alternate>
  </sequence>
</content>

Schema Declaration

element titlePage
{  
  att.global.attributes,
  att.typed.attribute.subtype,
  attribute type { text }?,
  (model.global*,
   model.titlepagePart,
   (model.titlepagePart | model.global)*)
}
<titlePart> (title part) contains a subsection or division of the title of a work, as indicated on a title page. [4.6. Title Pages]

Module: textstructure

Attributes:
- att.global (@xml:id, @n, @xml:lang, @xml:space)
- att.global.rendition (@rend)
- att.global.linking (@corresp, @next, @prev)
- att.global.analytic (@ana)
- att.global.facs (@facs)
- att.global.responsibility (@cert, @resp)
- att.global.source (@source)
- att.typed (type)

@type (type) specifies the role of this subdivision of the title.

Derived from: att.typed

Status: Optional

Datatype: teidata.enumerated

Suggested values include:
- main (main) main title of the work [Default]
- sub (subordinate) subtitle of the work
- alt (alternate) alternative title of the work
- short (short) abbreviated form of title
- desc (descriptive) descriptive paraphrase of the work

Member of:
- model.pLike.front
- model.titlepagePart

Contained by:
- back
docTitle
- front
titlePage

May contain:
- analysis:
  - interp
  - interpGrp
  - pc
  - sw

- core:
  - abbrev
  - address
  - bibl
  - choice
  - cit
  - corr
  - date
  - del
desc
emph
expan
forehead
gap
- gloss
- graphic
- hi
- index
- label
- lb
- lg
- list
- listBibl
- mentioned
- milestone
- name
- note
- num
- orig
- pb
- ptr
- q
- ref
- reg
- rs
- sic
- soCalled
- stage
- term
time
title
- unclear

- figures:
  - figure
  - formula
  - table

- header:
  - idno

- linking:
  - anchor
  - seg

- tagdocs:
  - att
  - code
  - eg
  - gi
  - ident
  - val

Example

<docTitle>
<titlePart type="main">THE FORTUNES
AND MISFORTUNES Of the FAMOUS
Moll Flanders, &c.</titlePart>
<titlePart type="desc">Who was BORN in NEWGATE,
And during a Life of continu’d Variety for
Threescore Years, besides her Childhood, was
Twelve Year a <hi>Whore</hi>, five times a <hi>Wife</hi> (wherof
to her own Brother) Twelve Year a <hi>Thief</hi>,
Eight Year a Transported <hi>Felon</hi> in <hi>Virginia</hi>,
at last grew <hi>Rich</hi>, liv’d <hi>Honest</hi>, and died a
<hi>Penitent</hi>.</titlePart>"/>

Content model

<content>
<macroRef key="macro.paraContent"/>
</content>
A LIST OF ELEMENTS DESCRIBED

Schema Declaration

```xml
element titlePart
{
  att.global.attributes,
  att.typed.attribute.subtype,
  attribute type { "main" | "sub" | "alt" | "short" | "desc" }?,
  macro.paraContent
}
```

`<titleStmt>` (title statement) groups information about the title of a work and those responsible for its content.  

Module header

Attributes

- att.global (@xml:id, @n, @xml:lang, @xml:space)
- (att.global.rendition (@rend))
- (att.global.linking (@corresp, @next, @prev))
- (att.global.analytic (@ana))
- (att.global.facs (@facs))
- (att.global.responsibility (@cert, @resp))
- (att.global.source (@source))

Contained by

- header: fileDesc
- core: author editor respStmt title
- header: funder principal sponsor

Example

```xml
<titleStmt>
<title>Capgrave's Life of St. John Norbert: a machine-readable transcription</title>
<respStmt>
<resp>compiled by</resp>
<name>P.J. Lucas</name>
</respStmt>
</titleStmt>
```

Content model

```xml
<content>
<sequence>
  <elementRef key="title" minOccurs="1"
               maxOccurs="unbounded"/>
  <classRef key="model.respLike"
            minOccurs="0" maxOccurs="unbounded"/>
</sequence>
</content>
```

Schema Declaration

```xml
element titleStmt { att.global.attributes, ( title+, model.respLike* ) }
```

`<trailer>` contains a closing title or footer appearing at the end of a division of a text.  

Module textstructure
Attributes 

Attributes \texttt{att.global} (\texttt{@xml:id} , \texttt{@n} , \texttt{@xml:lang} , \texttt{@xml:space}) \\
(\texttt{att.global.rendition} (\texttt{@rend})) (\texttt{att.global.linking} (\texttt{@corresp} , \texttt{@next} , \texttt{@prev})) \\
(\texttt{att.global.analytic} (\texttt{@ana})) (\texttt{att.global.facs} (\texttt{@facs})) (\texttt{att.global.responsibility} \\
(\texttt{@cert} , \texttt{@resp})) (\texttt{att.global.linking} (\texttt{@corresp} , \texttt{@next} , \texttt{@prev}) \\
(\texttt{att.global.analytic} (\texttt{@ana}))) (\texttt{att.global.facs} (\texttt{@facs})) (\texttt{att.global.responsibility} \\
(\texttt{@cert} , \texttt{@resp}))) (\texttt{att.placement} (\texttt{@place} ) att.written (\texttt{@hand}) \\
\texttt{att.typed} (\texttt{@type} , \texttt{@subtype}) \\
\texttt{att.placement} (\texttt{@place} ) att.written (\texttt{@hand}) 

Member of \texttt{model.divBottomPart} 

Contained by 

\texttt{core} : \texttt{lg list} 

\texttt{figures} : \texttt{figure} table 

\texttt{textstructure} : back body div front group postscript 

May contain 

\texttt{analysis} : interp interpGrp pc s w 

\texttt{core} : abbr add address bibl choice cit corr date del desc emph expan foreign gap gloss graphic hi index l label lb lg list listBibl mentioned milestone name note num orig pb ptr q ref refs sic soCalled stage term time title unclear 

\texttt{figures} : figure formula table 

\texttt{header} : idno 

\texttt{linking} : anchor seg 

\texttt{tagdocs} : att code eg gi ident val 

character data 

Example 

\texttt{<trailer>Explicit pars tertia</trailer>}

Example 

\texttt{<trailer>}
\texttt{<l> In stead of FINIS this advice <hi I</hi> send, </l>}
\texttt{<l> Let Rogues and Thieves beware of <lb/>}
\texttt{<hi> Hamans </hi> END. </l>}
\texttt{</trailer>}

From EEBO A87070 

Content model 

\begin{verbatim}
<content>
 <alternate minOccurs="0" maxOccurs="unbounded">
  <textNode/>
  <elementRef key="lg"/>
  <classRef key="model.gLike"/>
  <classRef key="model.phrase"/>
  <classRef key="model.inter"/>
  <classRef key="model.inter"/>
  <classRef key="model.inter"/>
  <classRef key="model.inter"/>
  <classRef key="model.global"/>
 </alternate>
</content>
\end{verbatim}

Schema Declaration 

\begin{verbatim}
element trailer 
{
  att.global.attributes,
  att.typed.attributes,
  att.placement.attributes,
}\end{verbatim}
A LIST OF ELEMENTS DESCRIBED

att.written.attributes,
{
    text
    | lg | model.gLike | model.phrase | model.inter | model.lLike | model.global
}

<unclear> (unclear) contains a word, phrase, or passage which cannot be transcribed with certainty because it is illegible or inaudible in the source. [11.3.1. Damage, Illegibility, and Supplied Text 3.5.3. Additions, Deletions, and Omissions]

Module core
Attributes Attributes att.global (@xmlns:id, @n, @xmlns:lang, @xmlns:space)
(att.global.rendition (@rend)) (att.global.linking (@corresp, @next, @prev))
(att.global.analytic (@ana)) (att.global.facs (@facs)) (att.global.responsibility (@cert, @resp))
(att.global.source (@source)) att.editLike (@evidence, @instant)
att.dimensions (@unit, @quantity, @extent, @precision, @scope) (att.ranging (@atLeast, @atMost, @min, @max, @confidence))
@reason indicates why the material is hard to transcribe.

Status  Optional
Datatype 1–∞ occurrences of teidata.enumerated separated by whitespace

Suggested values include: illegible (illegible)
    inaudible (inaudible)
    faded (faded)
    background_noise (background_noise)
    eccentric_ductus (eccentric_ductus) indicates illegibility due to an unusual, awkward, or incompetent execution of a glyph or glyphs

<p>500 mg <unclear reason="illegible">placebo</unclear>
</p>

Note One or more words may be used to describe the reason; usually each word will refer to a single cause.

@agent Where the difficulty in transcription arises from damage, categorizes the cause of the damage, if it can be identified.

Status  Optional
Datatype teidata.enumerated

Sample values include: rubbing damage results from rubbing of the leaf edges
    mildew damage results from mildew on the leaf surface
    smoke damage results from smoke

Member of model.choicePart model.pPart.transcriptional

Contained by
analysis: pc s w

core: abbr add addrLine author bibl biblScope choice corr date del editor emph expan foreign gloss head hi item i label mentioned name note num orig p pubPlace publisher q ref reg rs sic soCalled speaker stage term time title unclear
The same element is used for all cases of uncertainty in the transcription of element content, whether for written or spoken material. For other aspects of certainty, uncertainty, and reliability of tagging and transcription, see chapter 21. Certainty, Precision, and Responsibility.

The `<damage>`, `<gap>`, `<del>`, `<unclear>` and `<supplied>` elements may be closely allied in use. See section 11.3.2. Use of the gap, del, damage, unclear, and supplied Elements in Combination for discussion of which element is appropriate for which circumstance.

The `hand` attribute points to a definition of the hand concerned, as further discussed in section 11.3.2.1. Document Hands.

Example

```xml
<u>...and then <unclear reason="background-noise">Nathalie</unclear> said ...
</u>
```

Content model

```xml
<content>
  <macroRef key="macro.paraContent"/>
</content>
```

Schema Declaration

```xml
element unclear
{
  att.global.attributes,
  att.editLike.attributes,
  att.dimensions.attributes,
  attribute reason
{
  list
  {
    "illegible"
    | "inaudible"
    | "faded"
    | "background_noise"
  }
}
```
A LIST OF ELEMENTS DESCRIBED

<table>
<thead>
<tr>
<th align="left">&quot;eccentric_ductus&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td align="left">+</td>
</tr>
<tr>
<td align="left">{</td>
</tr>
<tr>
<td align="left">}</td>
</tr>
<tr>
<td align="left">attribute agent { text }?,</td>
</tr>
<tr>
<td align="left">macro.paraContent</td>
</tr>
</tbody>
</table>

<val> (value) contains a single attribute value.

Module tagdocs

Attributes Attributes att.global (@xml:id, @n, @xml:lang, @xml:space)

att.global.rendition (@rend) (att.global.linking (@corresp, @next, @prev))

att.global.analytic (@ana) (att.global.facs (@facs)) (att.global.responsibility (@cert, @resp)) (att.global.source (@source))

Member of model.phrase.xml

Contained by
analysis:

core: abbr add addrLine author biblScope corr date del desc editor emph expan foreign gloss head hi item label mentioned name note num orig pubPlace publisher q ref reg resp rs sic soCalled speaker stage term time title unclear

figures: cell figDesc

header: authority catDesc change classCode creation distributor edition extent funder language licence principal sponsor

linking: seg
tagdocs: eg
textstructure: byline closer dateline docAuthor docDate docEdition docImprint

imprimatur opener salute signed titlePart trailer

May contain Character data only

Example

<val>unknown</val>

Content model
<content> <textNode/></content>

Schema Declaration

element val { att.global.attributes, text }

<w> (word) represents a grammatical (not necessarily orthographic) word.

Module analysis

Attributes Attributes att.global (@xml:id, @n, @xml:lang, @xml:space)

att.global.rendition (@rend) (att.global.linking (@corresp, @next, @prev))

att.global.analytic (@ana) (att.global.facs (@facs)) (att.global.responsibility (@cert, @resp)) (att.global.source (@source)) att.segLike (@function) (att.datcat (@datcat, @valueDatcat)) (att.fragmentable (@part)) att.typed (@type, @subtype)

att.linguistic (@lemma, @lemmaRef, @pos, @msd, @join)

(att.lexicographic.normalized (@norm, @orig)) att.notated (@notation)

Member of model.segLike
This example is adapted from the Folger Library’s Early Modern English Drama version of The Wits: a Comedy by William Davenant.
A LIST OF ELEMENTS DESCRIBED

Content model

```
<content>
  <alternate minOccurs="0" maxOccurs="unbounded">
    <textNode/>
    <classRef key="model.gLike"/>
    <elementRef key="seg"/>
    <elementRef key="w"/>
    <elementRef key="m"/>
    <elementRef key="c"/>
    <elementRef key="pc"/>
    <classRef key="model.global"/>
    <classRef key="model.lPart"/>
    <classRef key="model.hiLike"/>
    <classRef key="model.pPart.edit"/>
  </alternate>
</content>
```

Schema Declaration

```
element w
{
  att.global.attributes,
  att.segLike.attributes,
  att.typed.attributes,
  att.linguistic.attributes,
  att.notated.attributes,
  {
    text
    | model.gLike   | seg   | w    | m    | c    | pc   | model.global | model.lPart
  }
}
```
A.2 Model classes

**model.addrPart**  groups elements such as names or postal codes which may appear as part of a postal address. [3.6.2. Addresses]

*Module*  tei

*Used by*  address

*Members*  
- model.nameLike
- model.nameLike.agent
- model.offsetLike
- model.placeStateLike
- model.placeNamePart
- idno
- rs
- addrLine

**model.addressLike**  groups elements used to represent a postal or email address. [1. The TEI Infrastructure]

*Module*  tei

*Used by*  model.pPart.data

*Members*  address

**model.attributable**  groups elements that contain a word or phrase that can be attributed to a source. [3.3.3. Quotation 4.3.2. Floating Texts]

*Module*  tei

*Used by*  cit macro.phraseSeq model.inter sp

*Members*  
- model.quoteLike

**model.availabilityPart**  groups elements such as licences and paragraphs of text which may appear as part of an availability statement [2.2.4. Publication, Distribution, Licensing, etc.]

*Module*  tei

*Used by*  availability

*Members*  license

**model.biblLike**  groups elements containing a bibliographic description. [3.12. Bibliographic Citations and References]

*Module*  tei

*Used by*  cit listBibl model.inter relatedItem sourceDesc taxonomy

*Members*  
- bibl
- listBibl

**model.biblPart**  groups elements which represent components of a bibliographic description. [3.12. Bibliographic Citations and References]

*Module*  tei

*Used by*  bibl

*Members*  
- model.imprintPart
- biblScope
distributor
pubPlace
publisher
model.respLike
- author
editor
funder
principal
respStmt
sponsor
availability
bibl
date
edition
extent
relatedItem
model.choicePart groups elements (other than `<choice>` itself) which can be used within a `<choice>` alternation. [3.5. Simple Editorial Changes]

Module tei
Used by choice
Members abbr corr expan orig reg seg sic unclear

model.common groups common chunk- and inter-level elements. [1.3. The TEI Class System]

Module tei
Used by argument body div epigraph figure postscript
Members model.divPart model.lLike l model.pLike p lg sp model.inter model.attributable model.quoteLike cit model.biblLike bibl listBib model.egLike eg model.labelLike desc label model.listLike list table model.oddDecl model.stageLike stage q

Note This class defines the set of chunk- and inter-level elements; it is used in many content models, including those for textual divisions.

model.dateLike groups elements containing temporal expressions. [3.6.4. Dates and Times 13.4. Dates]

Module tei
Used by model.pPart.data
Members date time

model.descLike groups elements which contain a description of their function.

Module tei
Used by category gap graphic interp interpGrp taxonomy
Members desc

model.describedResource groups elements which contain the content of a digital resource and its metadata; these elements may serve as the outermost or root element of a TEI-conformant document [1.3. The TEI Class System]

Module tei
Used by teiCorpus
Members TEI teiCorpus

model.divBottom groups elements appearing at the end of a text division. [4.2. Elements Common to All Divisions]

Module tei
Used by body div figure front group lg list table
model.divBottomPart groups elements which can occur only at the end of a text division. [4.6. Title Pages]

Module: tei

Used by: back, model.divBottom, postscript

Members: closer, postscript, signed, trailer

model.divGenLike groups elements used to represent a structural division which is generated rather than explicitly present in the source.

Module: tei

Used by: body, div

Members: divGen

model.divLike groups elements used to represent un-numbered generic structural divisions.

Module: tei

Used by: back, body, div, front

Members: div

model.divPart groups paragraph-level elements appearing directly within divisions.

[1.3. The TEI Class System]

Module: tei

Used by: macro.specialPara, model.common

Members: model.lLike[l], model.pLike[p], lg, sp

Note: Note that this element class does not include members of the model.inter class, which can appear either within or between paragraph-level items.

model.divTop groups elements appearing at the beginning of a text division. [4.2. Elements Common to All Divisions]

Module: tei

Used by: body, div, group, lg, list

Members: model.divTopPart, model.headLike[head], opener, signed

model.divWrapper, argument, byline, dateline, docAuthor, docDate, epigraph, salute

model.divTopPart groups elements which can occur only at the beginning of a text division. [4.6. Title Pages]

Module: tei

Used by: model.divTop, postscript
A LIST OF ELEMENTS DESCRIBED

Members model.headLike \[head\] opener signed

model.divWrapper groups elements which can appear at either top or bottom of a
textual division.  \[4.2. Elements Common to All Divisions\]

Module tei
Used by model.divBottom model.divTop
Members argument byline dateline docAuthor docDate epigraph salute

model.egLike groups elements containing examples or illustrations.  \[22.1.1. Phrase
Level Terms\]

Module tei
Used by cit model.inter
Members eg

model.emphLike groups phrase-level elements which are typographically distinct and
to which a specific function can be attributed.  \[3.3. Highlighting and Quotation\]

Module tei
Used by model.highlighted model.limitedPhrase
Members code emph foreign gloss ident mentioned soCalled term title

model.encodingDescPart groups elements which may be used inside
<encodingDesc> and appear multiple times.

Module tei
Used by encodingDesc
Members classDecl editorialDecl projectDesc refsDecl samplingDecl

model.frontPart groups elements which appear at the level of divisions within front
or back matter.  \[7.1. Front and Back Matter\]

Module tei
Used by back front
Members model.frontPart.drama divGen listBibl titlePage

model.global groups elements which may appear at any point within a TEI text.  \[1.3.
The TEI Class System\]

Module tei
Used by address argument back bibl body byline cit closer date dateline div docImprint
docTitle epigraph figure front group head l lg list macro.macroContent
macro.phraseSeq macro.phraseSeq.limited macro.specialPara opener postscript sp
table text time titlePage trailer w
model.global.edit groups globally available elements which perform a specifically editorial function. [1.3. The TEI Class System]

Module tei

Used by model.global

Members gap

model.global.meta groups globally available elements which describe the status of other elements. [1.3. The TEI Class System]

Module tei

Used by model.global

Members index interp interpGrp

Note Elements in this class are typically used to hold groups of links or of abstract interpretations, or by provide indications of certainty etc. It may find be convenient to localize all metadata elements, for example to contain them within the same division as the elements that they relate to; or to locate them all to a division of their own. They may however appear at any point in a TEI text.

model.graphicLike groups elements containing images, formulae, and similar objects. [3.10. Graphics and Other Non-textual Components]

Module tei

Used by cit figure formula model.phrase table

Members formula graphic

model.headLike groups elements used to provide a title or heading at the start of a text division.

Module tei

Used by argument divGen figure listBibl model.divTopPart table

Members head

model.hiLike groups phrase-level elements which are typographically distinct but to which no specific function can be attributed. [3.3. Highlighting and Quotation]

Module tei

Used by formula model.highlighted model.limitedPhrase w

Members hi q

model.highlighted groups phrase-level elements which are typographically distinct. [3.3. Highlighting and Quotation]
A LIST OF ELEMENTS DESCRIBED

**model.imprintPart** groups the bibliographic elements which occur inside imprints.

3.12. Bibliographic Citations and References

Module tei

*Used by* model.biblPart

*Members* biblScope distributor pubPlace publisher

**model.inter** groups elements which can appear either within or between paragraph-like elements.

1.3. The TEI Class System

Module tei

*Used by* head, macro.limitedContent, macro.paraContent, macro.specialPara, model.common, trailer

*Members* model.attributable, model.quoteLike, cit, model.biblLike, bibli listBibl, model.egLike, eg, model.labelLike, desc, label, model.listLike, list, table, model.oddDecl, model.stageLike, stage

**model.lLike** groups elements representing metrical components such as verse lines.

Module tei

*Used by* head, lg, macro.paraContent, model.divPart, sp, trailer

*Members* 1

**model.labelLike** groups elements used to gloss or explain other parts of a document.

Module tei

*Used by* lg, model.inter

*Members* desc, label

**model.limitedPhrase** groups phrase-level elements excluding those elements primarily intended for transcription of existing sources.

1.3. The TEI Class System

Module tei

*Used by* catDesc, creation, macro.limitedContent, macro.phraseSeq.limited

*Members* model.emphLike, code, emph, foreign, gloss, ident, mentioned, soCalled, term, title, model.hiLike, hi, q, model.pPart.data, model.addressLike, address, model.dateLike, date, time, model.measureLike, mm, model.nameLike, model.nameLike.agent, name, model.offsetLike, model.placeStateLike, model.placeNamePart, idno, rs, model.pPart, editorial, abbr, choice, expan, model.pPart, msdesc, model.phrase.xml, att, gi, val, model.ptrLike, ptr, ref

**model.listLike** groups list-like elements.

3.8. Lists

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model.measureLike groups elements which denote a number, a quantity, a measurement, or similar piece of text that conveys some numerical meaning. [3.6.3. Numbers and Measures]

Module tei
Used by model.inter sourceDesc sp
Members list table

model.milestoneLike groups milestone-style elements used to represent reference systems. [1.3. The TEI Class System 3.11.3. Milestone Elements]

Module tei
Used by listBibl model.global
Members anchor lb milestone pb

model.nameLike groups elements which name or refer to a person, place, or organization.

Module tei
Used by model.addrPart model.pPart.data
Members model.nameLike.agent name model.offsetLike model.placeStateLike model.placeNamePart idno rs

Note A superset of the naming elements that may appear in datelines, addresses, statements of responsibility, etc.

model.nameLike.agent groups elements which contain names of individuals or corporate bodies. [3.6. Names, Numbers, Dates, Abbreviations, and Addresses]

Module tei
Used by model.nameLike respStmt
Members name

Note This class is used in the content model of elements which reference names of people or organizations.

model.noteLike groups globally-available note-like elements. [3.9. Notes, Annotation, and Indexing]

Module tei
Used by model.global notesStmt
Members note

model.pLike groups paragraph-like elements
### A LIST OF ELEMENTS DESCRIBED

**Module** tei

**Used by** availability back editionStmt editorialDecl encodingDesc front langUsage model.divPart projectDesc publicationStmt refsDecl samplingDecl seriesStmt sourceDesc sp

**Members** p

---

**model.pLike.front** groups paragraph-like elements which can occur as direct constituents of front matter. [4.6. Title Pages]

**Module** tei

**Used by** back front

**Members** argument byline dateline docAuthor docDate docEdition docImprint docTitle epigraph head titlePart

---

**model.pPart.data** groups phrase-level elements containing names, dates, numbers, measures, and similar data. [3.6. Names, Numbers, Dates, Abbreviations, and Addresses]

**Module** tei

**Used by** bibl model.limitedPhrase model.phrase

**Members** model.addressLike address model.dateLike date time model.measureLike num model.nameLike agent name model.offsetLike model.placeStateLike model.placeNamePart idno rs

---

**model.pPart.edit** groups phrase-level elements for simple editorial correction and transcription. [3.5. Simple Editorial Changes]

**Module** tei

**Used by** bibl model.phrase pc w

**Members** model.pPart.editorial abbr choice expan model.pPart.transcriptional add corr del orig reg sic unclear

---

**model.pPart.editorial** groups phrase-level elements for simple editorial interventions that may be useful both in transcribing and in authoring. [3.5. Simple Editorial Changes]

**Module** tei

**Used by** model.limitedPhrase model.pPart.edit

**Members** abbr choice expan

---

**model.pPart.transcriptional** groups phrase-level elements used for editorial transcription of pre-existing source materials. [3.5. Simple Editorial Changes]

**Module** tei

**Used by** model.pPart.edit

**Members** add corr del orig reg sic unclear
**model.phrase**
groups elements which can occur at the level of individual words or phrases. [1.3. The TEI Class System]

**Module** tei

**Used by** byline, closer, date, dateline, docImprint, head, macro.phraseSeq, macro.specialPara, opener, time, trailer

**Members** model.graphicLike, model.highlighted, model.emphLike, code, emph, foreign, gloss, ident, mentioned, soCalled, term, title, model.hiLike, hi q, model.lPart, model.pPart, data, model.addressLike, address, model.dateLike, date, time, model.measureLike, num, model.nameLike, model.nameLike.agent, name, model.offsetLike, model.placeStateLike, model.placeNamePart, idno, rs, model.pPart, editorial, abbr, choice, expand, model.pPart, transcriptional, add, corr, del, orig, reg, sic, unclear, model.pPart, msdesc, model.phrase.xml, att, gi, val, model.ptrLike, ptr, ref, model.specDescLike

**Note** This class of elements can occur within paragraphs, list items, lines of verse, etc.

**model.phrase.xml**
groups phrase-level elements used to encode XML constructs such as element names, attribute names, and attribute values. [22. Documentation Elements]

**Module** tei

**Used by** model.limitedPhrase, model.phrase

**Members** att, gi, val

**model.placeStateLike**
groups elements which describe changing states of a place.

**Module** tei

**Used by** model.nameLike

**Members** model.placeNamePart

**model.profileDescPart**
groups elements which may be used inside `<profileDesc>` and appear multiple times.

**Module** tei

**Used by** profileDesc

**Members** creation, langUsage, textClass

**model.ptrLike**
groups elements used for purposes of location and reference. [3.7. Simple Links and Cross-References]

**Module** tei

**Used by** bibl, cit, model.limitedPhrase, model.phrase, model.publicationStmtPart, detail, relatedItem

**Members** ptr, ref
model.publicationStmtPart.agency groups the child elements of a
\(<\text{publicationStmt}>\) element of the TEI header that indicate an authorising agent.

\[2.2.4.\] Publication, Distribution, Licensing, etc.

**Module** tei

**Used by** publicationStmt

**Members** authority distributor publisher

**Note** The agency child elements, while not required, are required if one of the detail child elements is to be used. It is not valid to have a detail child element without a preceding agency child element.

See also model.publicationStmtPart.detail.

model.publicationStmtPart.detail groups the agency-specific child elements of the \(<\text{publicationStmt}>\) element of the TEI header. \[2.2.4.\] Publication, Distribution, Licensing, etc.

**Module** tei

**Used by** publicationStmt

**Members** model.ptrLike \([\text{ptr} \text{ ref]}\) address availability date idno pubPlace

**Note** A detail child element may not occur unless an agency child element precedes it.

See also model.publicationStmtPart.agency.

model.quoteLike groups elements used to directly contain quotations.

**Module** tei

**Used by** model.attributable

**Members** cit

model.resource groups separate elements which constitute the content of a digital resource, as opposed to its metadata. \[1.3.\] The TEI Class System

**Module** tei

**Used by** TEI teiCorpus

**Members** text

model.respLike groups elements which are used to indicate intellectual or other significant responsibility, for example within a bibliographic element.

**Module** tei

**Used by** editionStmt model.biblPart titleStmt

**Members** author editor funder principal respStmt sponsor

model.segLike groups elements used for arbitrary segmentation. \[16.3.\] Blocks, Segments, and Anchors \[17.1.\] Linguistic Segment Categories

**Module** tei

**Used by** bibl model.phrase
Note The principles on which segmentation is carried out, and any special codes or attribute values used, should be defined explicitly in the `<segmentation>` element of the `<encodingDesc>` within the associated TEI header.

model.stageLike groups elements containing stage directions or similar things defined by the module for performance texts. [7.3. Other Types of Performance Text]

Module tei
Used by lg model.inter sp
Members stage
Note Stage directions are members of class `inter`: that is, they can appear between or within component-level elements.

model.teiHeaderPart groups high level elements which may appear more than once in a TEI header.

Module tei
Used by teiHeader
Members encodingDesc profileDesc

model.titlepagePart groups elements which can occur as direct constituents of a title page, such as `<docTitle>`, `<docAuthor>`, `<docImprint>`, or `<epigraph>`. [4.6. Title Pages]

Module tei
Used by titlePage
Members argument byline docAuthor docDate docEdition docImprint docTitle epigraph graphic imprimatur titlePart

A.3 Attribute classes

att.anchoring (anchoring) provides attributes for use on annotations, e.g. notes and groups of notes describing the existence and position of an anchor for annotations.

Module tei
Members note
Attributes Attributes
    @anchored (anchored) indicates whether the copy text shows the exact place of reference for the note.
    Status Optional
    Datatype teidata.truthValue
    Default true
    Note In modern texts, notes are usually anchored by means of explicit footnote or endnote symbols. An explicit indication of the phrase or line annotated may however be used instead (e.g. page 218, lines 3–4). The anchored attribute indicates whether any explicit location is given, whether by symbol or by prose cross-reference. The value
true indicates that such an explicit location is indicated in the copy text; the value false indicates that the copy text does not indicate a specific place of attachment for the note. If the specific symbols used in the copy text at the location the note is anchored are to be recorded, use the $n$ attribute.

@targetEnd (target end) points to the end of the span to which the note is attached, if the note is not embedded in the text at that point.

Status Optional

Datatype 1–∞ occurrences of teidata.pointer separated by whitespace

Note This attribute is retained for backwards compatibility; it may be removed at a subsequent release of the Guidelines. The recommended way of pointing to a span of elements is by means of the range function of XPointer, as further described in 16.2.4.6.

Example

```xml
<p>(...) tamen reuerendos dominos archiepiscopum et canonicos Leopolienses necnon episcopum in duplicibus Quatuor temporiibus<anchor xml:id="A55234"/> totaliter expediui...</p>
</r-- elsewhere in the document -->
<noteGrp targetEnd="#A55234">
  <note xml:lang="en"> Quatuor Tempora, so called dry fast days. </note>
  <note xml:lang="pl"> Quatuor Tempora, tzw. Suche dni postne. </note>
</noteGrp>
```

att.ascribed provides attributes for elements representing speech or action that can be ascribed to a specific individual. 3.3.3. Quotation 8.3. Elements Unique to Spoken Texts

Module tei

Members att.ascribed.directed[q sp stage] change

Attributes

@who indicates the person, or group of people, to whom the element content is ascribed.

Status Optional

Datatype 1–∞ occurrences of teidata.pointer separated by whitespace

In the following example from Hamlet, speeches (<sp>) in the body of the play are linked to <castItem> elements in the <castList> using the who attribute. <castItem type="role">

```xml
<sp who="#Barnardo">
  <speaker>Bernardo</speaker>
  <l n="1">Who’s there?/l>
</sp>
<sp who="#Francisco">
  <speaker>Francisco</speaker>
```
<l n="2">Nay, answer me: stand, and unfold yourself.</l>
</sp>

**Note** For transcribed speech, this will typically identify a participant or participant group; in other contexts, it will point to any identified <person> element.

---

**att.ascribed.directed** provides attributes for elements representing speech or action that can be directed at a group or individual. 3.3.3. Quotation 8.3. Elements

**Attributes**

- **@toWhom** indicates the person, or group of people, to whom a speech act or action is directed.
- **Status** Optional
- **Datatype** 1–∞ occurrences of teidata.pointer separated by whitespace

In the following example from Mary Pix’s The False Friend, speeches (<sp>) in the body of the play are linked to <castItem> elements in the <castList> using the toWhom attribute, which is used to specify who the speech is directed to. Additionally, the <stage> includes toWhom to indicate the directionality of the action.

```xml
<sp who="#emil" toWhom="#lov">Emil.</sp>
<sp who="#lov" toWhom="#emil">Lov.</sp>
<sp who="#serv" toWhom="#emil">A servant</sp>
```

**Note** To indicate the recipient of written correspondence, use the elements used in section 2.4.6. Correspondence Description, rather than a toWhom attribute.

---

**att.breaking** provides an attribute to indicate whether or not the element concerned is considered to mark the end of an orthographic token in the same way as whitespace.

**Module** tei

**Attributes**

- **lb**
- **milestone**
- **pb**

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Attributes

@break indicates whether or not the element bearing this attribute should be considered to mark the end of an orthographic token in the same way as whitespace.

Status Recommended

Datatype teidata.enumerated

Sample values include yes the element bearing this attribute is considered to mark the end of any adjacent orthographic token irrespective of the presence of any adjacent whitespace

no the element bearing this attribute is considered not to mark the end of any adjacent orthographic token irrespective of the presence of any adjacent whitespace

maybe the encoding does not take any position on this issue.

In the following lines from the ‘Dream of the Rood’, linebreaks occur in the middle of the words lāðost and reord-berendum. <ab>...

eƿesa tome iu icƿas ȝeporden pita heardoƿt.
leodum la<lb break="no"/> ðost ærþan ichim lifes
peȝ rihnte ȝerymde reord be<lb break="no"/>
rendum hpæt me þæpeþorode pulres ealdor ofer...
</ab>

att.cReference provides an attribute which may be used to supply a canonical reference as a means of identifying the target of a pointer.

Module tei

Members gloss ptr ref term

Attributes

@cRef (canonical reference) specifies the destination of the pointer by supplying a canonical reference expressed using the scheme defined in a <refsDecl> element in the TEI header

Status Optional

Datatype teidata.text

Note The value of cRef should be constructed so that when the algorithm for the resolution of canonical references (described in section 16.2.5. Canonical References) is applied to it the result is a valid URI reference to the intended target.

The <refsDecl> to use may be indicated with the decls attribute.

Currently these Guidelines only provide for a single canonical reference to be encoded on any given <ptr> element.

att.canonical provides attributes which can be used to associate a representation such as a name or title with canonical information about the object being named or referenced. [13.1.1. Linking Names and Their References]

Module tei

Members att.naming att.personal name author editor pubPlace rs authority catDesc date distributor docAuthor docTitle funder principal publisher resp respStmt sponsor term time title

Attributes


@key provides an externally-defined means of identifying the entity (or entities) being named, using a coded value of some kind.

_STATUS_ Optional

_DataType_ teidata.text

```xml
<author>
  <name key="name 427308"
      type="organisation">[New Zealand Parliament, Legislative Council]</name>
</author>
<author>
  <name key="Hugo, Victor (1802-1885)"
     ref="http://www.idref.fr/026927608">Victor Hugo</name>
</author>
```

**Note** The value may be a unique identifier from a database, or any other externally-defined string identifying the referent.

No particular syntax is proposed for the values of the key attribute, since its form will depend entirely on practice within a given project. For the same reason, this attribute is not recommended in data interchange, since there is no way of ensuring that the values used by one project are distinct from those used by another. In such a situation, a preferable approach for magic tokens which follows standard practice on the Web is to use a ref attribute whose value is a tag URI as defined in RFC 4151.

@ref (reference) provides an explicit means of locating a full definition or identity for the entity being named by means of one or more URIs.

_STATUS_ Optional

_DataType_ 1–∞ occurrences of teidata.pointer separated by whitespace

```xml
<name ref="http://viaf.org/viaf/109557338"
      type="person">Seamus Heaney</name>
```

**Note** The value must point directly to one or more XML elements or other resources by means of one or more URIs, separated by whitespace. If more than one is supplied the implication is that the name identifies several distinct entities.

---

**att.citing** provides attributes for specifying the specific part of a bibliographic item being cited. [1.3.1. Attribute Classes](#)
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**chapter** (chapter) the element contains a chapter indication (number and/or title)

**part** the element identifies a part of a book or collection.

**column** the element identifies a column.

**entry** the element identifies an entry number or label in a list of entries.

@from specifies the starting point of the range of units indicated by the **unit** attribute.

*Status* Optional

*Datatype* teidata.word

@to specifies the end-point of the range of units indicated by the **unit** attribute.

*Status* Optional

*Datatype* teidata.word

---

**att.datable** provides attributes for normalization of elements that contain dates, times, or datable events. [3.6.4. Dates and Times 13.4. Dates]

*Module* tei

*Members* author change creation date editor funder idno licence name principal resp sponsor time title

*Attributes* Attributes **att.datable.w3c** (@when)

@period supplies a pointer to some location defining a named period of time within which the datable item is understood to have occurred.

*Status* Optional

*Datatype* teidata.pointer

This superclass provides attributes that can be used to provide normalized values of temporal information. By default, the attributes from the **att.datable.w3c** class are provided. If the module for names & dates is loaded, this class also provides attributes from the **att.datable.iso** and **att.datable.custom** classes. In general, the possible values of attributes restricted to the W3C datatypes form a subset of those values available via the ISO 8601 standard. However, the greater expressiveness of the ISO datatypes may not be needed, and there exists much greater software support for the W3C datatypes.

---


*Module* tei

*Members* att.datable, author change creation date editor funder idno licence name principal resp sponsor time title

*Attributes* Attributes

@when supplies the value of the date or time in a standard form, e.g. yyyy-mm-dd.

*Status* Optional

*Datatype* teidata.temporal.w3c

Examples of W3C date, time, and date & time formats. <p>
<date when="1945-10-24">24 Oct 45</date>
This list begins in the year 1632, more precisely on Trinity Sunday, i.e. the Sunday after Pentecost, in that year the<date when="1632-06-06">27th of May (old style)</date>.<p>

<opener>
<dateline>
<placeName>Dorchester, Village</placeName>
<date when="1828-03-02">March 2d. 1828.</date>
</dateline>
<salute>To Mrs. Cornell,</salute> Sunday <time when="12:00:00">noon.</time>
</opener>

Schematron <sch:rule context="tei:[@when]"> 
<sch:report test="@notBefore|@notAfter|@from|@to" role="nonfatal">The @when attribute cannot be used with any other att.datable.w3c attributes.</sch:report> </sch:rule>

Schematron <sch:rule context="tei:[@from]"> <sch:report test="@notBefore" role="nonfatal">The @from and @notBefore attributes cannot be used together.</sch:report> </sch:rule>

Schematron <sch:rule context="tei:[@to]"> <sch:report test="@notAfter" role="nonfatal">The @to and @notAfter attributes cannot be used together.</sch:report> </sch:rule>

Example

<date from="1863-05-28" to="1863-06-01">28 May through 1 June 1863</date>

Note The value of these attributes should be a normalized representation of the date, time, or combined date & time intended, in any of the standard formats specified by XML Schema Part 2: Datatypes Second Edition, using the Gregorian calendar. The most commonly-encountered format for the date portion of a temporal attribute is yyyy-mm-dd, but yyyy, - -mm, --dd, yyyy-mm, or --mm-dd may also be used. For the time part, the form hh:mm:ss is used. Note that this format does not currently permit use of the value 0000 to represent the year 1 BCE; instead the value -0001 should be used.

att.datcat provides the dcr:Datapcat and dcr:ValueDatapcat attributes which are used to align XML elements or attributes with the appropriate Data Categories (DCs) defined by the ISO 12620:2009 standard and stored in the Web repository called
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ISO Cat at http://www.isocat.org/.

9.5.2. Lexical View
18.3. Other Atomic Feature Values

Module  tei
Members  att.segLike|pc s seg w|

Attributes  Attributes
@datcat  contains a PID (persistent identifier) that aligns the given element with
the appropriate Data Category (or categories) in ISOcat.
Status  Optional
Datatype  1–∞ occurrences of teidata.pointer separated by whitespace

@valueDatcat  contains a PID (persistent identifier) that aligns the content of the
given element or the value of the given attribute with the appropriate
simple Data Category (or categories) in ISOcat.
Status  Optional
Datatype  1–∞ occurrences of teidata.pointer separated by whitespace

Example  In this example dcr:datcat relates the feature name to the data category
"partOfSpeech" and dcr:valueDatcat the feature value to the data category
"commonNoun". Both these data categories reside in the ISOcat DCR at
www.isocat.org, which is the DCR used by ISO TC37 and hosted by its registration
authority, the MPI for Psycholinguistics in Nijmegen.

<fs
 xmlns:dcr="http://www.isocat.org/ns/dcr">
<fs name="POS"
  dcr:datcat="http://www.isocat.org/dcat/DC-1345" fVal="#commonNoun"
  dcr:valueDatcat="http://www.isocat.org/dcat/DC-1256"/>
</fs>

Note  ISO 12620:2009 is a standard describing the data model and procedures for a Data
Category Registry (DCR). Data categories are defined as elementary descriptors in a
linguistic structure. In the DCR data model each data category gets assigned a
unique Persistent IDentifier (PID), i.e., an URI. Linguistic resources or preferably
their schemas that make use of data categories from a DCR should refer to them
using this PID. For XML-based resources, like TEI documents, ISO 12620:2009
normative Annex A gives a small Data Category Reference XML vocabulary (also
available online at http://www.isocat.org/12620/), which provides two attributes,
dcr:datcat and dcr:valueDatcat.

att.declarable  provides attributes for those elements in the TEI header which may be
independently selected by means of the special purpose decls attribute. [15.3.
Associating Contextual Information with a Text]

Module  tei
Members  availability bibl editorialDecl langUsage lstBibl projectDesc refsDecl
samplingDecl seriesStmt sourceDesc textClass

Attributes  Attributes
@default  indicates whether or not this element is selected by default when its
parent is selected.
Status  Optional
Datatype  teidata.truthValue

Legal values are: true This element is selected if its parent is selected
false This element can only be selected explicitly, unless it is the
only one of its kind, in which case it is selected if its parent is
selected.[Default]

The rules governing the association of declarable elements with individual parts of a
TEI text are fully defined in chapter 15.3. Associating Contextual Information with
a Text. Only one element of a particular type may have a default attribute with a
value of true.

att.declaring provides attributes for elements which may be independently associated
with a particular declarable element within the header, thus overriding the inherited
default for that element. [15.3. Associating Contextual Information with a Text]

Module tei
Members back body div front gloss graphic group lg p pt ref term text
Attributes Attributes
@decls identifies one or more declarable elements within the header, which are
understood to apply to the element bearing this attribute and its content.
Status Optional
Datatype 1–∞ occurrences of teidata.pointer separated by whitespace

The rules governing the association of declarable elements with individual parts of a
TEI text are fully defined in chapter 15.3. Associating Contextual Information with
a Text.

att.dimensions provides attributes for describing the size of physical objects.

Module tei
Members add date del gap time unclear
Attributes Attributes att.ranging (@atLeast, @atMost, @min, @max, @confidence)
@unit names the unit used for the measurement
Status Optional
Datatype teidata.enumerated
Suggested values include: cm (centimetres)
   mm (millimetres)
   in (inches)
   line lines of text
   char (characters) characters of text
@quantity specifies the length in the units specified
Status Optional
Datatype teidata.numeric
@extent indicates the size of the object concerned using a project-specific
vocabulary combining quantity and units in a single string of words.
Status Optional
Datatype teidata.text
   <gap extent="5 words"/>
   <height extent="half the page"/>
@precision characterizes the precision of the values specified by the other
attributes.
Status Optional
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Datatype teidata.certainty
@scope where the measurement summarizes more than one observation, specifies the applicability of this measurement.

Status Optional
Datatype teidata.enumerated

Sample values include: all measurement applies to all instances.
most measurement applies to most of the instances inspected.
range measurement applies to only the specified range of instances.

att.divLike provides attributes common to all elements which behave in the same way as divisions. [4. Default Text Structure]

Module tei
Members div lg
Attributes Attributes att.fragmentable (@part)

@org (organization) specifies how the content of the division is organized.

Status Optional
Datatype teidata.enumerated

Legal values are: composite no claim is made about the sequence in which the immediate contents of this division are to be processed, or their inter-relationships.
uniform the immediate contents of this element are regarded as forming a logical unit, to be processed in sequence.[Default]

@sample indicates whether this division is a sample of the original source and if so, from which part.

Status Optional
Datatype teidata.enumerated

Legal values are: initial division lacks material present at end in source.
medial division lacks material at start and end.
final division lacks material at start.
unknown position of sampled material within original unknown.
complete division is not a sample.[Default]

att.docStatus provides attributes for use on metadata elements describing the status of a document.

Module tei
Members bibl change revisionDesc
Attributes Attributes

@status describes the status of a document either currently or, when associated with a dated element, at the time indicated.

Status Optional
Datatype teidata.enumerated

Sample values include: approved

candidate

cleared
att.editLike provides attributes describing the nature of an encoded scholarly intervention or interpretation of any kind. 

3.5. Simple Editorial Changes

10.3.1.

Origination

13.3.2. The Person Element

11.3.1.1. Core Elements for Transcriptional Work

att.editLike provides attributes describing the nature of an encoded scholarly intervention or interpretation of any kind. 

Example

```xml
<revisionDesc status="published">
  <change when="2010-10-21" status="published"/>
  <change when="2010-10-02" status="cleared"/>
  <change when="2010-08-02" status="embargoed"/>
  <change when="2010-05-01" status="frozen" who="#MSM"/>
  <change when="2010-03-01" status="draft" who="#LB"/>
</revisionDesc>
```

Attributes

- **@evidence** indicates the nature of the evidence supporting the reliability or accuracy of the intervention or interpretation.
  - **Status** Optional
  - **Datatype** 1–∞ occurrences of `teidata.enumerated` separated by whitespace
  - **Suggested values include:** internal there is internal evidence to support the intervention.
    - external there is external evidence to support the intervention.
    - conjecture the intervention or interpretation has been made by the editor, cataloguer, or scholar on the basis of their expertise.
  - **@instant** indicates whether this is an instant revision or not.
    - **Status** Optional
    - **Datatype** `teidata.xTruthValue`
    - **Default** false

The members of this attribute class are typically used to represent any kind of
editorial intervention in a text, for example a correction or interpretation, or to date or localize manuscripts etc.

Each pointer on the source (if present) corresponding to a witness or witness group should reference a bibliographic citation such as a <witness>, <msDesc>, or <bibl> element, or another external bibliographic citation, documenting the source concerned.

**att.edition** provides attributes identifying the source edition from which some encoded feature derives.

**Module** tei

**Members** lb milestone pb

**Attributes** Attributes

- **@ed** (edition) supplies a sigil or other arbitrary identifier for the source edition in which the associated feature (for example, a page, column, or line break) occurs at this point in the text.
  
  **Status** Optional

  **Datatype** 1–∞ occurrences of `teidata.word` separated by whitespace

- **@edRef** (edition reference) provides a pointer to the source edition in which the associated feature (for example, a page, column, or line break) occurs at this point in the text.

  **Status** Optional

  **Datatype** 1–∞ occurrences of `teidata.pointer` separated by whitespace

**Example**

```xml
<l>Of Mans First Disobedience,<lb ed="1674"/> and<lb ed="1667"/> the Fruit</l>
<l>Of that Forbidden Tree, whose<lb ed="1667 1674"/> mortal tast</l>
<l>Brought Death into the World,<lb ed="1667"/> and all<lb ed="1674"/> our woe.</l>
```

**Example**

```xml
<listBibl>
  <bibl xml:id="stapledon1937">
    <author>Olaf Stapledon</author>,
    <title>Starmaker</title>, <publisher>Methuen</publisher>, 
    <date>1937</date>
  </bibl>
  <bibl xml:id="stapledon1968">
    <author>Olaf Stapledon</author>,
    <title>Starmaker</title>, <publisher>Dover</publisher>, <date>1968</date>
  </bibl>
</listBibl>
```

```xml
<p>Looking into the future aeons from the supreme moment of the cosmos, I saw the populations still with all their strength maintaining the<pb n="411" edRef="#stapledon1968">essentials of their ancient culture, still living their personal lives in zest and endless novelty of action, … I saw myself still preserving, though with increasing difficulty, my lucid consciousnes</p>
```
att.fragmentable provides an attribute for representing fragmentation of a structural element, typically as a consequence of some overlapping hierarchy.

Module tei
Members

Attributes

@part specifies whether or not its parent element is fragmented in some way, typically by some other overlapping structure: for example a speech which is divided between two or more verse stanzas, a paragraph which is split across a page division, a verse line which is divided between two speakers.

Attributes

@xml:id (identifier) provides a unique identifier for the element bearing the attribute.

Note The xml:id attribute may be used to specify a canonical reference for an element; see section 3.11. Reference Systems.
@n (number) gives a number (or other label) for an element, which is not necessarily unique within the document.

**Status** Optional

**Datatype** teidata.text

**Note** The value of this attribute is always understood to be a single token, even if it contains space or other punctuation characters, and need not be composed of numbers only. It is typically used to specify the numbering of chapters, sections, list items, etc.; it may also be used in the specification of a standard reference system for the text.

@xml:lang (language) indicates the language of the element content using a tag generated according to BCP 47.

**Status** Optional

**Datatype** teidata.language

<p>… The consequences of this rapid depopulation were the loss of the last <foreign xml:lang="rap">arika</foreign> or chief (Routledge 1920:205,210) and their connections to ancestral territorial organization.</p>

**Note** The xml:lang value will be inherited from the immediately enclosing element, or from its parent, and so on up the document hierarchy. It is generally good practice to specify xml:lang at the highest appropriate level, noticing that a different default may be needed for the <teiHeader> from that needed for the associated resource element or elements, and that a single TEI document may contain texts in many languages.

The authoritative list of registered language subtags is maintained by IANA and is available at http://www.iana.org/assignments/language-subtag-registry. For a good general overview of the construction of language tags, see http://www.w3.org/International/articles/language-tags/, and for a practical step-by-step guide, see https://www.w3.org/International/questions/qa-choosing-language-tags.en.php.

The value used must conform with BCP 47. If the value is a private use code (i.e., starts with x- or contains -x-), a <language> element with a matching value for its ident attribute should be supplied in the TEI header to document this value. Such documentation may also optionally be supplied for non-private-use codes, though these must remain consistent with their (IETF) Internet Engineering Task Force definitions.

@xml:space signals an intention about how white space should be managed by applications.

**Status** Optional

**Datatype** teidata.enumerated

**Legal values are:**
- default signals that the application’s default white-space processing modes are acceptable
- preserve indicates the intent that applications preserve all white space

**Note** The XML specification provides further guidance on the use of this attribute. Note that many parsers may not handle xml:space correctly.
att.global.analytic provides additional global attributes for associating specific analyses or interpretations with appropriate portions of a text. [17.2. Global Attributes for Simple Analyses] [17.3. Spans and Interpretations]

Module analysis

Members att.global.TEI abbr add addrLine address anchor argument att author authority availability back bibl biblScope body byline catDesc catRef category cell change choice cit classCode classDecl closer code cori creation date dateline del desc distributor div divGen docAuthor docDate docEdition docImprint docTitle edition editionStmt editor editorialDecl eg emph encodingDesc epigraph expan extent figDesc figure fileDesc foreign formula front funder gap gi gloss graphic group head hi ident idno imprimatur index interp interpGrp item keywords id label langUsage language lb lg licence list listBibl mentioned milestone name note notesStmt num opener orig p pb pc postscript principal profileDesc projectDesc ptr pubPlace publicationStmt publisher q ref refsDecl reg relatedItem resp respStmt revisionDesc row rs s salute samplingDecl seg seriesStmt sic signed soCalled sourceDesc sp speaker sponsor stage table tableDesc taxonomy teiCorpus teiHeader term text textClass time title titlePage titlePart titleStmt trailer unclear val w

Attributes @ana (analysis) indicates one or more elements containing interpretations of the element on which the ana attribute appears.

Status Optional

Datatype 1–∞ occurrences of teidata.pointer separated by whitespace

Note When multiple values are given, they may reflect either multiple divergent interpretations of an ambiguous text, or multiple mutually consistent interpretations of the same passage in different contexts.

att.global.facs provides an attribute used to express correspondence between an element containing transcribed text and all or part of an image representing that text. [11.1. Digital Facsimiles]

Module transcr

Members att.global.TEI abbr add addrLine address anchor argument att author authority availability back bibl biblScope body byline catDesc catRef category cell change choice cit classCode classDecl closer code cori creation date dateline del desc distributor div divGen docAuthor docDate docEdition docImprint docTitle edition editionStmt editor editorialDecl eg emph encodingDesc epigraph expan extent figDesc figure fileDesc foreign formula front funder gap gi gloss graphic group head hi ident idno imprimatur index interp interpGrp item keywords id label langUsage language lb lg licence list listBibl mentioned milestone name note notesStmt num opener orig p pb pc postscript principal profileDesc projectDesc ptr pubPlace publicationStmt publisher q ref refsDecl reg relatedItem resp respStmt revisionDesc row rs s salute samplingDecl seg seriesStmt sic signed soCalled sourceDesc sp speaker sponsor stage table tableDesc taxonomy teiCorpus teiHeader term text textClass time title titlePage titlePart titleStmt trailer unclear val w

Attributes @facs (facsimile) points to all or part of an image which corresponds with the content of the element.

Status Optional

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Datatype 1–∞ occurrences of `teidata.pointer` separated by whitespace

att.global/linking provides a set of attributes for hypertextual linking. [16. Linking, Segmentation, and Alignment]

Module linking

Members att.global TEI abbr add addrLine address anchor argument att author authority availability back bib bibScope body byline catDesc catRef category cell change choice cit classCode classDecl closer code corr creation date dateline del desc distributor div divGen docAuthor docDate docEdition docImprint docTitle editionStmt editor editorialDecl eg emph encodingDesc epigraph expan extent figDesc figure fileDesc foreign formula front funder gap gi gloss graphic group head hi ident idno imprimatur index interp interpGrp item item idno language lb lg licence list listBibl mentioned milestone name note notesStmt num opener orig original pc postscript principal profileDesc projectDesc ptr pubPlace publicationStmt publisher rls refsDecl reg relatedItem resp respStmt revisionDesc row rs salute samplingDecl seg seriesStmt sig signed soCalled sourceDesc sp speaker sponsor stage table taxonomy teiCorpus teiHeader term text textClass time title titlePage titlePart titleStmt trailer unclear val w

Attributes

@corresp (corresponds) points to elements that correspond to the current element in some way.

Status Optional

Datatype 1–∞ occurrences of `teidata.pointer` separated by whitespace

<group>
  <text xml:id="t1-g1-t1"
    xml:lang="mi">
    <body xml:id="t1-g1-t1-body1">
      <div type="chapter">
        <head>He Whakamaramatanga mo te Ture Hoko, Riihi hoki, i nga Whenua Maori, 1876.</head>
        <p>…</p>
      </div>
    </body>
  </text>
  <text xml:id="t1-g1-t2"
    xml:lang="en">
    <body xml:id="t1-g1-t2-body1"
      corresp="#t1-g1-t1-body1">
      <div type="chapter">
        <head>An Act to regulate the Sale, Letting, and Disposal of Native Lands, 1876.</head>
        <p>…</p>
      </div>
    </body>
  </text>
</group>

In this example a `<group>` contains two `<text>`s, each containing the same document in a different language. The correspondence is indicated using `corresp`. The language is indicated using `xml:lang`, whose value is inherited; both the tag with the `corresp` and the tag pointed to by the `corresp` inherit the value from their immediate parent.

<!-- In a placeography called "places.xml" -->
<place xml:id="LOND1"
  corresp="people.xml#LOND2 people.xml#GENI1">
att.global.rendition

<placeName>London</placeName>
<desc>The city of London...</desc>
</place>
<!-- In a literary personography called "people.xml" -->
<person xml:id="LOND2"
corresp="places.xml#LOND1 #GENI1">
<persName type="lit">London</persName>
</note>
<p>Allegorical character representing the city of London.
</p>
</person>
<person xml:id="GENI1"
corresp="places.xml#LOND1 #LOND2">
<persName type="lit">London’s Genius</persName>
</note>
<p>Personification of London’s genius. Appears as an allegorical character in mayoral shows.
</p>
</person>

In this example, a <place> element containing information about the city of London is linked with two <person> elements in a literary personography. This correspondence represents a slightly looser relationship than the one in the preceding example; there is no sense in which an allegorical character could be substituted for the physical city, or vice versa, but there is obviously a correspondence between them.

@next points to the next element of a virtual aggregate of which the current element is part.

<table>
<thead>
<tr>
<th>Status</th>
<th>Optional</th>
</tr>
</thead>
<tbody>
<tr>
<td>Datatype</td>
<td>teidata.pointer</td>
</tr>
</tbody>
</table>

Note It is recommended that the element indicated be of the same type as the element bearing this attribute.

@prev (previous) points to the previous element of a virtual aggregate of which the current element is part.

<table>
<thead>
<tr>
<th>Status</th>
<th>Optional</th>
</tr>
</thead>
<tbody>
<tr>
<td>Datatype</td>
<td>teidata.pointer</td>
</tr>
</tbody>
</table>

Note It is recommended that the element indicated be of the same type as the element bearing this attribute.

att.global.rendition provides rendering attributes common to all elements in the TEI encoding scheme. [1.3.1.1.3. Rendition Indicators]

Module tei

Members att.global[TEI abbr add addrLine address anchor argument att author authority availability back bibl biblScope body byline catDesc catRef category cell change choice cit classCode classDecl closer code corr creation dateline del desc distributor div divGen docAuthor docDate docEdition docImprint docTitle editionStmt editor editorialDecl eg emph encodingDesc epigraph expant extent figDesc figure fileDesc foreign formula front funder gap gi gloss graphic group head hi ident idno imprimatur index interp interpGrp item keywords l label langUsage language lb lg licence listBibl mentioned milestone name note notesStmt num opener orig p pb pc postscript principal profileDesc projectDesc ptr pubPlace publicationStmt publisher q ref refsDecl reg relatedItem resp respStmt revisionDesc
A LIST OF ELEMENTS DESCRIBED

Attributes

@rend (rendition) indicates how the element in question was rendered or presented in the source text.

Status Optional

Datatype 1–∞ occurrences of teidata.word separated by whitespace

Note These Guidelines make no binding recommendations for the values of the rend attribute; the characteristics of visual presentation vary too much from text to text and the decision to record or ignore individual characteristics varies too much from project to project. Some potentially useful conventions are noted from time to time at appropriate points in the Guidelines. The values of the rend attribute are a set of sequence-indeterminate individual tokens separated by whitespace.

att.global.responsibility provides attributes indicating the agent responsible for some aspect of the text, the markup or something asserted by the markup, and the degree of certainty associated with it. [1.3.1.1.4. Sources, certainty, and responsibility 3.5. Simple Editorial Changes 11.3.2.2. Hand, Responsibility, and Certainty Attributes 17.3. Spans and Interpretations 13.1.1. Linking Names and Their Referents]

Module tei

Members att.global.TEI abbr add addrLine address anchor argument att author authority availability back bibl biblScope body byline catDesc catRef category cell change choice cit classCode classDecl closer code corr creation date dateline del desc distributor div divGen docAuthor docDate docEdition docImprint docTitle editionStmt editor editorialDecl eg emph encodingDesc epigraph expand extent figDesc figure fileDesc foreign formula front funder gap gi gloss graphic group head hi ident idno imprint index interp interpGrp item keywords lc label langUsage language lb li licence listBibl mentioned milestone name note notesStmt num opener orig pb pc postscript principal profileDesc projectDesc ptr pubPlace publicationStmt publisher q ref refsDecl reg relatedItem resp respStmt revisionDesc row rs salute samplingDecl seg seriesStmt sic signed soCalled sourceDesc sp speaker sponsor stage table taxonomy teiCorpus teiHeader term text textClass time title titlePage titlePart titleStmt trailer unclear val w

Attributes

@cert (certainty) signifies the degree of certainty associated with the intervention or interpretation.

Status Optional

Datatype teidata.probCert

@resp (responsible party) indicates the agency responsible for the intervention or interpretation, for example an editor or transcriber.

Status Optional
Datatype 1–∞ occurrences of teidata.pointer separated by whitespace

Note To reduce the ambiguity of a resp pointing directly to a person or organization, we recommend that resp be used to point not to an agent (<person> or <org>) but to a <respStmt>, <author>, <editor> or similar element which clarifies the exact role played by the agent. Pointing to multiple <respStmt>s allows the encoder to specify clearly each of the roles played in part of a TEI file (creating, transcribing, encoding, editing, proofing etc.).

Example

Blessed are the
<choice>
<sic>cheesemakers</sic>
<corr resp="#editor" cert="high">peacemakers</corr>
</choice>: for they shall be called the children of God.

Example

<!-- in the <text> ... --><lg>
<!-- ... -->
<l>Punkes, Panders, base extortionizing sla</l>
<!-- ... -->
<sic>n</sic>
<corr resp="#JENS1_transcriber">u</corr>
</choice>es</l>
<!-- ... -->
</lg>
<!-- in the <teiHeader> ... -->
<!-- ... -->
<respStmt xml:id="JENS1_transcriber">
<resp when="2014">Transcriber</resp>
<name>Janelle Jenstad</name>
</respStmt>

att.global.source provides an attribute used by elements to point to an external source. [1.3.1.1.4. Sources, certainty, and responsibility 3.3.3. Quotation 8.3.4. Writing]

Module tei

Members att.global TEI abbr add addrLine address anchor argument att author authority availability back bibli bibliScope body byline catDesc catRef category cell change choice cit classCode classDecl closer code corr creation date dateline del desc distributor div divGen docAuthor docDate docEdition docImprint docTitle editionStmt editor editorialDecl eg emph encodingDesc epigraph expan extent figDesc figure fileDesc foreign formula front funder gap gi gloss graphic group head hi ident idno imprimatur index interp interpGrp item keywords l label langUsage language lb lg licence list listBibl mentioned milestone name note notesStmt num opener orig orig pub pc postscript principal profileDesc projectDesc ptr pubPlace publicationStmt publisher q qref refsDecl reg relatedItem resp respStmt revisionDesc row rs salute samplingDecl seg seriesStmt sic signed soCalled sourceDesc sp speaker sponsor stage table taxonomy teiCorpus teiHeader term text textClass time title titlePage titlePart titleStmt trailer unclear val w

Attributes Attributes

@source specifies the source from which some aspect of this element is drawn.
Status  Optional

Datatype  1–∞ occurrences of teidata(pointer) separated by whitespace

Note  The source attribute points to an external source. When used on elements describing schema components such as <schemaSpec> or <moduleRef> it identifies the source from which declarations for the components of the object being defined may be obtained.

On other elements it provides a pointer to the bibliographical source from which a quotation or citation is drawn.

In either case, the location may be provided using any form of URI, for example an absolute URI, a relative URI, or private scheme URI that is expanded to an absolute URI as documented in a <prefixDef>.

If more than one location is specified, the default assumption is that the required source should be obtained by combining the resources indicated.

Example

```xml
<p>
<!- ... - --> As Willard McCarty (<bibl xml:id="mcc_2012">2012, p.2</bibl>) tells us, <quote source="#mcc_2012">'Collaboration' is a problematic and should be a contested term.</quote>
<!- ... - -->
</p>
```

Example

```xml
<p>
<!- ... - --> <quote source="#chicago_15_ed">Grammatical theories are in flux, and the more we learn, the less we seem to know.</quote>
<!- ... - -->
</p>
```

```xml
<bibl xml:id="chicago_15_ed">
</bibl>
```

Example

```xml
<elementRef key="p" source="tei:2.0.1"/>
```

Include in the schema an element named <p> available from the TEI P5 2.0.1 release.

Example

```xml
<schemaSpec ident="myODD"
  source="mycompiledODD.xml">
<!- further declarations specifying the components required -->
</schemaSpec>
```

Create a schema using components taken from the file mycompiledODD.xml.
att. lexicographic.normalized provides the norm and orig attributes for usage within word-level elements in the analysis module and within lexicographic microstructure in the dictionaries module.

Module analysis

Members att.linguistic[pc w]

Attributes Attributes

@norm (normalized) provides the normalized/standardized form of information present in the source text in a non-normalized form

  Status Optional

  Datatype teidata.text

  Normalization of part-of-speech information within a dictionary entry. <gramGrp>
  <pos norm="noun">n</pos>
  </gramGrp>

  Normalization of a source form in a tokenized historical corpus. <s>
  <w norm="virtue's">vertues</w>
  <w norm="sake">sake</w>
  </s>

  <s>
  <w norm="persuasion">perswasion</w>
  <w norm="Unity">Vnitie</w>
  </s>

  <w norm="freiwillig">freywillig</w>
  <pc norm="," join="left"></pc>
  <w norm="unbedrängt">vnbedra[n]gt</w>
  <w norm="und">vnd</w>
  <w norm="unverhindert">vnuerhindert</w>
  </s>

  <w norm="Teil">Theyll</w>

  <w norm="Freude">Frewde</w>

@orig (original) gives the original string or is the empty string when the element does not appear in the source text.

  Status Optional

  Datatype teidata.text

  Example from a language documentation project of the Mixtepec-Mixtec language (ISO 639-3: 'mix'). This is a use case where speakers spell something incorrectly but we would like to preserve it for any number of reasons, the use of orig is essential and could have uses for both the speaker to see past mistakes, researchers to get insight into how untrained speakers write their language instinctually (in contrast to prescribed convention), etc.:<w norm="ntsasia\'i">ntsasia\'i</w>

  Example from the EarlyPrint project. Fragment of text where obvious errors have been corrected but the original forms remain recorded: <w lemma="he" pos="pns" xml:id="b1afj-003-a-0950">he</w>

  <w lemma="have" pos="vvz"
A LIST OF ELEMENTS DESCRIBED

An example from the EarlyPrint project showing the use of both norm and orig. The orig attribute preserves the original version (sometimes with spelling errors, often with printer abbreviations), the element content resolves printer abbreviations but retains the original orthography, and the norm attribute holds normalized values:

```xml
<w lemma="commandment" pos="n1" norm="commandment" xml:id="b9avr-018-a-7720" orig="commandemēt">commandement</w>
```

It needs to be stressed that the two attributes in this class are meant for strictly lexicographic and linguistic uses, and not for editorial interventions. For the latter, the mechanism based on `<choice>`, `<orig>`, and `<reg>` needs to be employed.

**att.linguistic** provides a set of attributes concerning linguistic features of tokens, for usage within token-level elements, specifically `<w>` and `<pc>` in the analysis module. [17.4.2. Lightweight Linguistic Annotation]

**Module analysis**

**Members** `<pc>` `<w>`

**Attributes**

- `<att.lexicographic.normalized>` (@norm, @orig)
  - **@lemma** provides a lemma (base form) for the word, typically uninflected and serving both as an identifier (e.g. in dictionary contexts, as a headword), and as a basis for potential inflections.
    - **Status** Optional
    - **Datatype** `teidata.text`
      ```xml
      <w lemma="wife">wives</w>
      <w lemma="Arznei">Artzeneyen</w>
      ```
  - **@lemmaRef** provides a pointer to a definition of the lemma for the word, for example in an online lexicon.
    - **Status** Optional
    - **Datatype** `teidata.pointer`
      ```xml
      <w type="verb" lemma="hit"
           lemmaRef="http://www.example.com/lexicon/hitvb.xml">hitt</w>
      <m type="suffix">ing</m>
      ```
  - **@pos** (part of speech) indicates the part of speech assigned to a token (i.e. information on whether it is a noun, adjective, or verb), usually according to some official reference vocabulary (e.g. for German: STTS, for English: CLAWS, for Polish: NKJP, etc.).
    - **Status** Optional
    - **Datatype** `teidata.text`
      ```xml
      The German sentence Wir fahren in den Urlaub. tagged with the Stuttgart-Tuebingen-Tagset (STTS). <s>
      <w pos="PPER">Wir</w>
      ```

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The English sentence We're going to Brazil. tagged with the CLAWS-5 tagset, arranged inline (with significant whitespace).

The English sentence We're going on vacation to Brazil for a month! tagged with the CLAWS-7 tagset and arranged sequentially.

@msd (morphosyntactic description) supplies morphosyntactic information for a token, usually according to some official reference vocabulary (e.g. for German: STTS-large tagset; for a feature description system designed as (pragmatically) universal, see Universal Features).

Status Optional

Datatype teidata.text

<ab>
  <w pos="PPER" msd="1.Pl.*.Nom">Wir</w>
  <w pos="VVFIN" msd="1.Pl.Pres.Ind">fahren</w>
  <w pos="APPR" msd="--">in</w>
  <w pos="ART" msd="Def.Masc.Akk.Sg">den</w>
  <w pos="NN" msd="Masc.Akk.Sg">Urlaub</w>
  <pc pos="$." msd="--">.</pc>
</ab>

@join when present, it provides information on whether the token in question is adjacent to another, and if so, on which side. The definition of this attribute is adapted from ISO MAF (Morpho-syntactic Annotation Framework), ISO 24611:2012.

Status Optional

Datatype teidata.text

Legal values are: no (the token is not adjacent to another)
left (there is no whitespace on the left side of the token)
right (there is no whitespace on the right side of the token)
both (there is no whitespace on either side of the token)
overlap (the token overlaps with another; other devices (specifying
the extent and the area of overlap) are needed to more precisely locate this token in the character stream.

The example below assumes that the lack of whitespace is marked redundantly, by using the appropriate values of join. `<s>
<pc join="right">"</pc>
<w join="left">Friends</w>
<w>will</w>
<w>be</w>
<w join="right">friends</w>
<pc join="both">.</pc>
</s>
</p>

Note that a project may make a decision to only indicate lack of whitespace in one direction, or do that non-redundantly. The existing proposal is the broadest possible, on the assumption that we adopt the "streamable view", where all the information on the current element needs to be represented locally.

The English sentence We're going on vacation. tagged with the CLAWS-5 tagset, arranged sequentially, tagged on the assumption that only the lack of the preceding whitespace is indicated. `<p>
<w pos="PNP">We</w>
<w pos="VBB" join="left">'re</w>
<w pos="VVG">going</w>
<w pos="PRP">on</w>
<w pos="NN1">vacation</w>
<pc pos="PUN" join="left">.</pc>
</p>

These attributes make it possible to encode simple language corpora and to add a layer of linguistic information to any tokenized resource. See section 17.4.2, Lightweight Linguistic Annotation for discussion.

---

**att.media** provides attributes for specifying display and related properties of external media.

**Module** tei

**Members** graphic

**Attributes**

- **@width** Where the media are displayed, indicates the display width
  - **Status** Optional
  - **Datatype** teidata.outputMeasurement

- **@height** Where the media are displayed, indicates the display height
  - **Status** Optional
  - **Datatype** teidata.outputMeasurement

- **@scale** Where the media are displayed, indicates a scale factor to be applied when generating the desired display size
  - **Status** Optional
  - **Datatype** teidata.numeric

---

**att.milestoneUnit** provides an attribute to indicate the type of section which is
att.naming provides attributes common to elements which refer to named persons, places, organizations etc.  

Module: tei
Members: att.personal
Attributes: att.canonical (@key, @ref)

@role may be used to specify further information about the entity referenced by
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this name in the form of a set of whitespace-separated values, for example the occupation of a person, or the status of a place.

*Status Optional*

*Datatype* 1–∞ occurrences of teidata.enumerated separated by whitespace

@nymRef (reference to the canonical name) provides a means of locating the canonical form (nym) of the names associated with the object named by the element bearing it.

*Status Optional*

*Datatype* 1–∞ occurrences of teidata.pointer separated by whitespace

*Note* The value must point directly to one or more XML elements by means of one or more URIs, separated by whitespace. If more than one is supplied, the implication is that the name is associated with several distinct canonical names.

---

**att.notated** provides an attribute to indicate any specialised notation used for element content.

*Module* tei

*Members* formula seg w

*Attributes* Attributes

@notation names the notation used for the content of the element.

*Status Optional*

*Datatype* teidata.enumerated

---

**att.personal** (attributes for components of names usually, but not necessarily, personal names) common attributes for those elements which form part of a name usually, but not necessarily, a personal name. [13.2.1. Personal Names]

*Module* tei

*Members* name

*Attributes* Attributes att.naming (@role, @nymRef) att.canonical (@key, @ref)

@full indicates whether the name component is given in full, as an abbreviation or simply as an initial.

*Status Optional*

*Datatype* teidata.enumerated

*Legal values are:* yes (yes) the name component is spelled out in full.[Default]

abb (abbreviated) the name component is given in an abbreviated form.

init (initial letter) the name component is indicated only by one initial.

@sort (sort) specifies the sort order of the name component in relation to others within the name.

*Status Optional*

*Datatype* teidata.count
att.placement provides attributes for describing where on the source page or object a textual element appears. [3.5.3. Additions, Deletions, and Omissions]

Module tei

Members add figure head label note stage trailer

Attributes @place specifies where this item is placed.

Status Recommended

Datatype 1–∞ occurrences of teidata.enumerated separated by whitespace

Suggested values include:
- **top** at the top of the page
- **bottom** at the foot of the page
- **margin** in the margin (left, right, or both)
- **opposite** on the opposite, i.e. facing, page
- **overleaf** on the other side of the leaf
- **above** above the line
- **right** to the right, e.g. to the right of a vertical line of text, or to the right of a figure
- **below** below the line
- **left** to the left, e.g. to the left of a vertical line of text, or to the left of a figure
- **end** at the end of e.g. chapter or volume.
- **inline** within the body of the text.
- **inspace** in a predefined space, for example left by an earlier scribe.

```xml
<add place="margin">[An addition written in the margin]</add>
<add place="bottom opposite">[An addition written at the foot of the current page and also on the facing page]</add>
<note place="bottom">Ibid, p.7</note>
```

att.pointing provides a set of attributes used by all elements which point to other elements by means of one or more URI references. [1.3.1.1.2. Language Indicators]

Module tei

Members catRef gloss licence note ptr ref term

Attributes @targetLang specifies the language of the content to be found at the destination referenced by target, using a language tag generated according to BCP 47.

Status Optional

Datatype teidata.language

Schematron

```xml
<sch:rule context="tei:*[not(self::tei:schemaSpec)][@targetLang]">
    <sch:assert test="@target">@targetLang should only be used on <sch:name/> if @target is specified.</sch:assert> </sch:rule>
```
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In the example above, the <linkGrp> combines pointers at parallel fragments of the Universal Declaration of Human Rights: one of them is in Polish, the other in Swahili.

Note The value must conform to BCP 47. If the value is a private use code (i.e., starts with x- or contains -x-), a <language> element with a matching value for its ident attribute should be supplied in the TEI header to document this value. Such documentation may also optionally be supplied for non-private-use codes, though these must remain consistent with their (IETF) Internet Engineering Task Force definitions.

@target specifies the destination of the reference by supplying one or more URI References

Status Optional

Datatype 1–∞ occurrences of teidata.pointer separated by whitespace

Note One or more syntactically valid URI references, separated by whitespace. Because whitespace is used to separate URIs, no whitespace is permitted inside a single URI. If a whitespace character is required in a URI, it should be escaped with the normal mechanism, e.g. TEI%20Consortium.

@evaluate (evaluate) specifies the intended meaning when the target of a pointer is itself a pointer.

Status Optional

Datatype teidata.enumerated

Legal values are:

all if the element pointed to is itself a pointer, then the target of that pointer will be taken, and so on, until an element is found which is not a pointer.

one if the element pointed to is itself a pointer, then its target (whether a pointer or not) is taken as the target of this pointer.

none no further evaluation of targets is carried out beyond that needed to find the element specified in the pointer’s target.

Note If no value is given, the application program is responsible for deciding (possibly on the basis of user input) how far to trace a chain of pointers.

att.ranging provides attributes for describing numerical ranges.

Module tei

Members add date del gap time unclear num

Attributes

@atLeast gives a minimum estimated value for the approximate measurement.

Status Optional

Datatype teidata.numeric

@atMost gives a maximum estimated value for the approximate measurement.

Status Optional

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att.resourced provides attributes by which a resource (such as an externally held media file) may be located.

**Module** tei

**Members** graphic

**Attributes**

- **@url** (uniform resource locator) specifies the URL from which the media concerned may be obtained.
  - **Status** Required
  - **Datatype** teidata.pointer

att.segLike provides attributes for elements used for arbitrary segmentation. [16.3. Blocks, Segments, and Anchors] [17.1. Linguistic Segment Categories]

**Module** tei

**Members** pc seg w

**Attributes**

- **att.datcat (@datcat, @valueDatcat)**
  - **Status** Optional
  - **Datatype** teidata.enumerated

- **att.fragmentable (@part)**
  - **Status** Optional
  - **Datatype** teidata.enumerated

**Note** Attribute values will often vary depending on the type of element to which they are attached. For example, a `<cl>`, may take values such as coordinate, subject, adverbial etc. For a `<phr>`, such values as subject, predicate etc. may be more appropriate. Such constraints will typically be implemented by a project-defined customization.
**att.sortable** provides attributes for elements in lists or groups that are sortable, but whose sorting key cannot be derived mechanically from the element content. [9.1. Dictionary Body and Overall Structure]

**Module** tei

**Members** bibl idno item list listBibl term

**Attributes**

- **@sortKey** supplies the sort key for this element in an index, list or group which contains it.
  
  **Status** Optional
  
  **Datatype** teidata.word
  
  David’s other principal backer, Josiah ha-Kohen  
  <index indexName="NAMES">  
  <term sortKey="Azarya_Josiah_Kohen">Josiah ha-Kohen b. Azarya</term>  
  </index> b. Azarya, son of one of the last gaons of Sura was David’s own first cousin.

  **Note** The sort key is used to determine the sequence and grouping of entries in an index. It provides a sequence of characters which, when sorted with the other values, will produce the desired order; specifics of sort key construction are application-dependent.

  Dictionary order often differs from the collation sequence of machine-readable character sets; in English-language dictionaries, an entry for 4-H will often appear alphabetized under fourh, and McCoy may be alphabetized under maccoy, while A1, A4, and A5 may all appear in numeric order alphabetized between a- and AA. The sort key is required if the orthography of the dictionary entry does not suffice to determine its location.

**att.spanning** provides attributes for elements which delimit a span of text by pointing mechanisms rather than by enclosing it. [11.3.1.4. Additions and Deletions]

**Module** tei

**Members** index lb milestone pb

**Attributes**

- **@spanTo** indicates the end of a span initiated by the element bearing this attribute.
  
  **Status** Optional
  
  **Datatype** teidata.pointer
  
  **Schematron** The @spanTo attribute must point to an element following the current element <sch:rule context="tei:*[@spanTo]">
  
  <sch:assert test="id(substring(@spanTo,2)) and following::*[@xml:id=substring(current()/@spanTo,2)]">The element indicated by @spanTo (<sch:value-of select="@spanTo"/>) must follow the current element <sch:name/> </sch:assert> </sch:rule>

  The span is defined as running in document order from the start of the content of the pointing element to the end of the content of the element pointed to by the
spanTo attribute (if any). If no value is supplied for the attribute, the assumption is that the span is coextensive with the pointing element. If no content is present, the assumption is that the starting point of the span is immediately following the element itself.

**att.tableDecoration** provides attributes used to decorate rows or cells of a table.  

14. Tables, Formulæ, Graphics and Notated Music

<table>
<thead>
<tr>
<th>Module</th>
<th>figures</th>
</tr>
</thead>
<tbody>
<tr>
<td>Members</td>
<td>cell row</td>
</tr>
</tbody>
</table>

**Attributes**

- **@role** (role) indicates the kind of information held in this cell or in each cell of this row.
  - Status Optional
  - Datatype teidata.enumerated
  - Suggested values include: label labelling or descriptive information only.
  - data data values.[Default]

  **Note** When this attribute is specified on a row, its value is the default for all cells in this row. When specified on a cell, its value overrides any default specified by the role attribute of the parent <row> element.

- **@rows** (rows) indicates the number of rows occupied by this cell or row.
  - Status Optional
  - Datatype teidata.count
  - Default 1

  **Note** A value greater than one indicates that this cell spans several rows. Where several cells span multiple rows, it may be more convenient to use nested tables.

- **@cols** (columns) indicates the number of columns occupied by this cell or row.
  - Status Optional
  - Datatype teidata.count
  - Default 1

  **Note** A value greater than one indicates that this cell or row spans several columns. Where an initial cell spans an entire row, it may be better treated as a heading.

**att.timed** provides attributes common to those elements which have a duration in time, expressed either absolutely or by reference to an alignment map.  

<table>
<thead>
<tr>
<th>Module</th>
<th>tei</th>
</tr>
</thead>
<tbody>
<tr>
<td>Members</td>
<td>gap</td>
</tr>
</tbody>
</table>

**Attributes**

- **@start** indicates the location within a temporal alignment at which this element begins.
  - Status Optional
  - Datatype teidata.pointer
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Note If no value is supplied, the element is assumed to follow the immediately preceding element at the same hierarchic level.
@end indicates the location within a temporal alignment at which this element ends.

Status Optional

Datatype teidata.pointer

Note If no value is supplied, the element is assumed to precede the immediately following element at the same hierarchic level.

att.transcriptional provides attributes specific to elements encoding authorial or scribal intervention in a text when transcribing manuscript or similar sources.

[11.3.1.4. Additions and Deletions]

Module tei

Members add del

Attributes Attributes att.editLike (@evidence, @instant) att.written (@hand)

@status indicates the effect of the intervention, for example in the case of a deletion, strikeouts which include too much or too little text, or in the case of an addition, an insertion which duplicates some of the text already present.

Status Optional

Datatype teidata.enumerated

Sample values include: duplicate all of the text indicated as an addition duplicates some text that is in the original, whether the duplication is word-for-word or less exact.

duplicate-partial part of the text indicated as an addition duplicates some text that is in the original

excessStart some text at the beginning of the deletion is marked as deleted even though it clearly should not be deleted.

excessEnd some text at the end of the deletion is marked as deleted even though it clearly should not be deleted.

shortStart some text at the beginning of the deletion is not marked as deleted even though it clearly should be.

shortEnd some text at the end of the deletion is not marked as deleted even though it clearly should be.

partial some text in the deletion is not marked as deleted even though it clearly should be.

unremarkable the deletion is not faulty.[Default]

Note Status information on each deletion is needed rather rarely except in critical editions from authorial manuscripts; status information on additions is even less common.

Marking a deletion or addition as faulty is inescapably an interpretive act; the usual test applied in practice is the linguistic acceptability of the text with and without the letters or words in question.

@cause documents the presumed cause for the intervention.

Status Optional

Datatype teidata.enumerated
**att.translatable**

@seq (sequence) assigns a sequence number related to the order in which the encoded features carrying this attribute are believed to have occurred.

*Status* Optional

*Datatype* teidata.count

---

**att.translatable** provides attributes used to indicate the status of a translatable portion of an ODD document.

*Module* tagdocs

*Members* desc gloss

*Attributes* Attributes

@versionDate specifies the date on which the source text was extracted and sent to the translator.

*Status* Optional

*Datatype* teidata.temporal.working

*Note* The *versionDate* attribute can be used to determine whether a translation might need to be revisited, by comparing the modification date on the containing file with the *versionDate* value on the translation. If the file has changed, changelogs can be checked to see whether the source text has been modified since the translation was made.

---


*Module* tei

*Members* att.interpLike interp interpGrp TEI abbr add anchor bibl change cit corr date del desc div divGen figure gloss group head ident idno label lb lg list listBibl milestone name note mm pb pc ptr ref reg relatedItem rs s seg segBibl table teiCorpus term text time title titlePage titlePart trailer w

*Attributes* Attributes

@type characterizes the element in some sense, using any convenient classification scheme or typology.

*Status* Optional

*Datatype* teidata.enumerated

```xml
<div type="verse">
  <head>Night in Tarras</head>
  <lg type="stanza">
    <l>At evening tramping on the hot white road</l>
    <l>…</l>
  </lg>
</div>
```
A wind sprang up from nowhere as the sky

Note The *type* attribute is present on a number of elements, not all of which are members of *att.typed*, usually because these elements restrict the possible values for the attribute in a specific way.

*@subtype* (subtype) provides a sub-categorization of the element, if needed

Status Optional

Datatype |teidata.enumerated|

Note The *subtype* attribute may be used to provide any sub-classification for the element additional to that provided by its *type* attribute.

Schematron

<sch:rule context="tei:*[@subtype]"> <sch:assert test="@type">The <sch:name/> element should not be categorized in detail with @subtype unless also categorized in general with @type</sch:assert> </sch:rule>

Note When appropriate, values from an established typology should be used. Alternatively a typology may be defined in the associated TEI header. If values are to be taken from a project-specific list, this should be defined using the *<valList>* element in the project-specific schema description, as described in 23.3.1.3. Modification of Attribute and Attribute Value Lists.

**att.written** provides an attribute to indicate the hand in which the content of an element was written in the source being transcribed. [1.3.1. Attribute Classes]

Module *tei*

Members *att.transcriptional[/add del closer div figure head hi label note opener p postscript salute seg signed text trailer]*

Attributes

@hand points to a *<handNote>* element describing the hand considered responsible for the content of the element concerned.

Status Optional

Datatype |teidata.pointer|

A.4 Macros

**macro.limitedContent** (paragraph content) defines the content of prose elements that are not used for transcription of extant materials. [1.3. The TEI Class System]

Module *tei*

Used by *desc figDesc*

Content model

```xml
<content>
<alternate minOccurs="0" maxOccurs="unbounded">
<textNode/>
<classRef key="model.limitedPhrase"/>
<classRef key="model.inter"/>
</alternate>
```
**Declaration**

```python
macro.limitedContent = ( text | model.limitedPhrase | model.inter )*  
```

**macro.paraContent** (paragraph content) defines the content of paragraphs and similar elements. [1.3. The TEI Class System]

**Module** tei

**Used by** add | corr | del | docEdition | emph | hi | imprimatur | orig | p | ref | reg | salute | seg | sic | signed | title | titlePart | unclear

**Content model**

```xml
<content>
 <alternate minOccurs="0" maxOccurs="unbounded">
  <textNode/>
  <classRef key="model.gLike"/>
  <classRef key="model.phrase"/>
  <classRef key="model.inter"/>
  <classRef key="model.global"/>
  <elementRef key="lg"/>
  <classRef key="model.lLike"/>
 </alternate>
</content>
```

**Declaration**

```python
macro.paraContent =  
 (  
  text  
  | model.gLike  
  | model.phrase  
  | model.inter  
  | model.global  
  | lg  
  | model.lLike
```

**macro.phraseSeq** (phrase sequence) defines a sequence of character data and phrase-level elements. [1.4.1. Standard Content Models]

**Module** tei

**Used by** abbr | addrLine | author | biblScope | distributor | docAuthor | docDate | edition | editor | eg | expan | extent | foreign | gloss | label | mentioned | name | num | pubPlace | publisher | rs | ss | soCalled | speaker | term

**Content model**

```xml
<content>
 <alternate minOccurs="0" maxOccurs="unbounded">
  <textNode/>
  <classRef key="model.gLike"/>
  <classRef key="model.attributable"/>
  <classRef key="model.phrase"/>
  <classRef key="model.global"/>
 </alternate>
```

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macro.phraseSeq.limited (limited phrase sequence) defines a sequence of character data and those phrase-level elements that are not typically used for transcribing extant documents. [1.4.1. Standard Content Models]

Module tei
Used by authority classCode funder language principal resp sponsor

Content model

```xml
<content>
  <alternate minOccurs="0" maxOccurs="unbounded">
    <textNode/>
    <classRef key="model.limitedPhrase"/>
    <classRef key="model.global"/>
  </alternate>
</content>

Declaration

macro.phraseSeq.limited = ( text | model.limitedPhrase | model.global )*```

macro.specialPara ('special’ paragraph content) defines the content model of elements such as notes or list items, which either contain a series of component-level elements or else have the same structure as a paragraph, containing a series of phrase-level and inter-level elements. [1.3. The TEI Class System]

Module tei
Used by cell change item licence note stage

Content model

```xml
<alternate minOccurs="0" maxOccurs="unbounded">
  <textNode/>
  <classRef key="model.gLike"/>
  <classRef key="model.phrase"/>
  <classRef key="model.inter"/>
  <classRef key="model.divPart"/>
  <classRef key="model.global"/>
</alternate>
</content>

Declaration

macro.specialPara = ( text | model.gLike | model.phrase | model.inter | model.divPart | model.global )*```
A.5 Datatypes

**teidata.certainty** defines the range of attribute values expressing a degree of certainty.

*Module* tei

*Used by* teidata.probCert

*Content model*

```xml
<content>
  <valList type="closed">
    <valItem ident="high"/>
    <valItem ident="medium"/>
    <valItem ident="low"/>
    <valItem ident="unknown"/>
  </valList>
</content>
```

*Declaration*

```
teidata.certainty = "high" | "medium" | "low" | "unknown"
```

*Note* Certainty may be expressed by one of the predefined symbolic values high, medium, or low. The value unknown should be used in cases where the encoder does not wish to assert an opinion about the matter.

**teidata.count** defines the range of attribute values used for a non-negative integer value used as a count.

*Module* tei

*Used by* Element:

- `table/@rows`
- `table/@cols`

*Content model*

```xml
<content>
  <dataRef name="nonNegativeInteger"/>
</content>
```

*Declaration*

```
teidata.count = xsd:nonNegativeInteger
```

*Note* Any positive integer value or zero is permitted.

**teidata.duration.iso** defines the range of attribute values available for representation of a duration in time using ISO 8601 standard formats

*Module* tei
A LIST OF ELEMENTS DESCRIBED

Used by
Content model

```
<content>
  <dataRef name="token"
    restriction="[0-9.,DHMPRSTWYZ/:+-]+"/>
</content>
```

Declaration

```
teidata.duration.iso = token { pattern = "[0-9.,DHMPRSTWYZ/:+-]+" }```

Example

```
<time dur-iso="PT0,75H">three-quarters of an hour</time>
```

Example

```
<date dur-iso="P1,5D">a day and a half</date>
```

Example

```
<date dur-iso="P14D">a fortnight</date>
```

Example

```
<time dur-iso="PT0.02S">20 ms</time>
```

Note  A duration is expressed as a sequence of number-letter pairs, preceded by the letter P; the letter gives the unit and may be Y (year), M (month), D (day), H (hour), M (minute), or S (second), in that order. The numbers are all unsigned integers, except for the last, which may have a decimal component (using either . or , as the decimal point; the latter is preferred). If any number is 0, then that number-letter pair may be omitted. If any of the H (hour), M (minute), or S (second) number-letter pairs are present, then the separator T must precede the first time number-letter pair.

For complete details, see ISO 8601 Data elements and interchange formats — Information interchange — Representation of dates and times.

```
teidata.duration.w3c defines the range of attribute values available for representation of a duration in time using W3C datatypes.
```

Module tei
Used by
Content model

```
<content> <dataRef name="duration"/> </content>
```

Declaration

```
teidata.duration.w3c = xsd:duration```

Example

```
<time dur="PT45M">forty-five minutes</time>
```

Example

```
<date dur="P1DT12H">a day and a half</date>
```

Example
<date dur="P7D">a week</date>

Example

<time dur="PT0.02S">20 ms</time>

Note A duration is expressed as a sequence of number-letter pairs, preceded by the letter P; the letter gives the unit and may be Y (year), M (month), D (day), H (hour), M (minute), or S (second), in that order. The numbers are all unsigned integers, except for the S number, which may have a decimal component (using . as the decimal point). If any number is 0, then that number-letter pair may be omitted. If any of the H (hour), M (minute), or S (second) number-letter pairs are present, then the separator T must precede the first time number-letter pair.

For complete details, see the W3C specification.

teidata.enumerated defines the range of attribute values expressed as a single XML name taken from a list of documented possibilities.

Module tei

Used by Element:

- abbr/@type
- att/@scheme
- availability/@status
- desc/@type
- divGen/@type
- gap/@reason
- gap/@agent
- gi/@scheme
- idno/@type
- interp/@type
- interpGrp/@type
- list/@type
- num/@type
- pc/@force
- pc/@unit
- q/@type
- stage/@type
- title/@type
- title/@level
- titlePage/@type
- titlePart/@type
- unclear/@reason
- unclear/@agent

Content model <content> <dataRef key="teidata.word"/> </content>
A LIST OF ELEMENTS DESCRIBED

Declaration `teidata.enumerated = teidata.word`

Note Attributes using this datatype must contain a single word which contains only letters, digits, punctuation characters, or symbols: thus it cannot include whitespace. Typically, the list of documented possibilities will be provided (or exemplified) by a value list in the associated attribute specification, expressed with a `<valList>` element.

teidata.language defines the range of attribute values used to identify a particular combination of human language and writing system. [6.1. Language Identification]

Module tei

Used by Element:

- `language`/@ident

Content model

```xml
<content>
  <alternate>
    <dataRef name="language"/>
    <valList>
      <valItem ident=""/>
    </valList>
  </alternate>
</content>
```

Declaration `teidata.language = xsd:language | ( "" )`

Note The values for this attribute are language tags as defined in BCP 47. Currently BCP 47 comprises RFC 5646 and RFC 4647; over time, other IETF documents may succeed these as the best current practice.

A language tag, per BCP 47, is assembled from a sequence of components or subtags separated by the hyphen character (-, U+002D). The tag is made of the following subtags, in the following order. Every subtag except the first is optional. If present, each occurs only once, except the fourth and fifth components (variant and extension), which are repeatable.

```xml
language
script
region
```

language The IANA-registered code for the language. This is almost always the same as the ISO 639 2-letter language code if there is one. The list of available registered language subtags can be found at [http://www.iana.org/assignments/language-subtag-registry](http://www.iana.org/assignments/language-subtag-registry). It is recommended that this code be written in lower case.

script The ISO 15924 code for the script. These codes consist of 4 letters, and it is recommended they be written with an initial capital, the other three letters in lower case. The canonical list of codes is maintained by the Unicode Consortium, and is available at [http://unicode.org/iso15924/iso15924-codes.html](http://unicode.org/iso15924/iso15924-codes.html). The IETF recommends this code be omitted unless it is necessary to make a distinction you need.

region Either an ISO 3166 country code or a UN M.49 region code that is registered with IANA (not all such codes are registered, e.g. UN codes for economic groupings or codes for countries for which there is already an ISO 3166 2-letter code are not registered). The former consist of 2 letters, and it is
recommended they be written in upper case; the list of codes can be searched or browsed at https://www.iso.org/obp/ui/#search/code/. The latter consist of 3 digits; the list of codes can be found at http://unstats.un.org/unsd/methods/m49/m49.htm.

**variant** An IANA-registered variation. These codes are used to indicate additional, well-recognized variations that define a language or its dialects that are not covered by other available subtags.

**extension** An extension has the format of a single letter followed by a hyphen followed by additional subtags. These exist to allow for future extension to BCP 47, but as of this writing no such extensions are in use.

**private use** An extension that uses the initial subtag of the single letter x (i.e., starts with x-) has no meaning except as negotiated among the parties involved. These should be used with great care, since they interfere with the interoperability that use of RFC 4646 is intended to promote. In order for a document that makes use of these subtags to be TEI-conformant, a corresponding `<language>` element must be present in the TEI header.

There are two exceptions to the above format. First, there are language tags in the IANA registry that do not match the above syntax, but are present because they have been grandfathered from previous specifications.

Second, an entire language tag can consist of only a private use subtag. These tags start with x-, and do not need to follow any further rules established by the IETF and endorsed by these Guidelines. Like all language tags that make use of private use subtags, the language in question must be documented in a corresponding `<language>` element in the TEI header.

Examples include:

- **sn** Shona
- **zh-TW** Taiwanese
- **zh-Hant-HK** Chinese written in traditional script as used in Hong Kong
- **en-SL** English as spoken in Sierra Leone
- **pl** Polish
- **es-MX** Spanish as spoken in Mexico
- **es-419** Spanish as spoken in Latin America

The W3C Internationalization Activity has published a useful introduction to BCP 47, Language tags in HTML and XML.

---

**teidata.name** defines the range of attribute values expressed as an XML Name.

*Module* tei

*Used by* att, gi, Element:

- `index/@indexName`

*Content model* `<content> <dataRef name="Name"/></content>`

*Declaration* `teidata.name = xsd:Name`

*Note* Attributes using this datatype must contain a single word which follows the rules defining a legal XML name (see http://www.w3.org/TR/REC-xml/#dt-name); for example they cannot include whitespace or begin with digits.
**teidata.namespace** defines the range of attribute values used to indicate XML namespaces as defined by the W3C Namespaces in XML Technical Recommendation.

*Module* tei

*Used by*

*Content model*<content> <dataRef name="anyURI"/></content>

*Declaration* teidata.namespace = xsd:anyURI

*Note* The range of syntactically valid values is defined by **RFC 3986 Uniform Resource Identifier (URI): Generic Syntax**

---

**teidata.numeric** defines the range of attribute values used for numeric values.

*Module* tei

*Used by* Element:

- `num/@value`

*Content model*

```
<content>
  <alternate>
    <dataRef name="double"/>
    <dataRef name="token"
      restriction="(\-?[\d]+/(\-?[\d]+)"/>
    <dataRef name="decimal"/>
  </alternate>
</content>
```

*Declaration*

```
teidata.numeric =
  xsd:double | token { pattern = "(\-?[\d]+/(\-?[\d]+)" } | xsd:decimal
```

*Note* Any numeric value, represented as a decimal number, in floating point format, or as a ratio.

To represent a floating point number, expressed in scientific notation, E notation, a variant of exponential notation, may be used. In this format, the value is expressed as two numbers separated by the letter E. The first number, the significand (sometimes called the mantissa) is given in decimal format, while the second is an integer. The value is obtained by multiplying the mantissa by 10 the number of times indicated by the integer. Thus the value represented in decimal notation as 1000.0 might be represented in scientific notation as 10E3.

A value expressed as a ratio is represented by two integer values separated by a solidus (/) character. Thus, the value represented in decimal notation as 0.5 might be represented as a ratio by the string 1/2.

---

**teidata.outputMeasurement** defines a range of values for use in specifying the size of an object that is intended for display.

*Module* tei

*Used by*
teidata.pattern

Content model

```
<content>
  <dataRef name="token"
    restriction="[\-+]?\d+(\.\d+)?(%|cm|mm|in|pt|pc|px|em|ex|gd|rem|vw|vh|vm)"/>
</content>
```

Declaration

```
teidata.outputMeasurement =
  token
  { pattern = "[\-+]?\d+(\.\d+)?(%|cm|mm|in|pt|pc|px|em|ex|gd|rem|vw|vh|vm)"
  }
```

Example

```
<figure>
  <head>The TEI Logo</head>
  <figDesc>Stylized yellow angle brackets with the letters <mentioned>TEI</mentioned> in between and <mentioned>text encoding initiative</mentioned> underneath, all on a white background.</figDesc>
  <graphic height="600px" width="600px"
    url="http://www.tei-c.org/logos/TEI-600.jpg"/>
</figure>
```

Note These values map directly onto the values used by XSL-FO and CSS. For definitions of the units see those specifications; at the time of this writing the most complete list is in the [CSS3 working draft](http://www.w3.org/2003/css3/).

---

teedata.pattern defines attribute values which are expressed as a regular expression.

**Module** tei

**Used by** Content model

```
<content>  <dataRef name="token"/></content>
```

**Declaration**

```
teidata.pattern = token
```

**Note** A regular expression, often called a pattern, is an expression that describes a set of strings. They are usually used to give a concise description of a set, without having to list all elements. For example, the set containing the three strings Handel, Händel, and Haendel can be described by the pattern H(ä|ae?)ndel (or alternatively, it is said that the pattern H(ä|ae?)ndel matches each of the three strings).[Wikipedia](http://en.wikipedia.org/wiki/Regular_expression)

This TEI datatype is mapped to the XSD token datatype, and may therefore contain any string of characters. However, it is recommended that the value used conform to the particular flavour of regular expression syntax supported by XSD Schema.

---

teidata pointer defines the range of attribute values used to provide a single URI, absolute or relative, pointing to some other resource, either within the current document or elsewhere.

**Module** tei

---

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Used by Element:

- `catRef/@scheme`
- `change/@target`
- `classCode/@scheme`
- `keywords/@scheme`
- `relatedItem/@target`

Content model:
```xml
<content> <dataRef name="anyURI"/></content>
```

Declaration:
```xml
tedata.pointer = xsd:anyURI
```

Note: The range of syntactically valid values is defined by RFC 3986 Uniform Resource Identifier (URI): Generic Syntax. Note that the values themselves are encoded using RFC 3987 Internationalized Resource Identifiers (IRIs) mapping to URIs. For example, `https://secure.wikimedia.org/wikipedia/en/wiki/%` is encoded as `https://secure.wikimedia.org/wikipedia/en/wiki/%25` while `http://موقع.وزارة-الاتصالات.مصر` is encoded as `http://xn--4gbrim.xn----rmckbbajlc6dj7bxne2c.xn--wgbh1c/

`teidata.probCert` defines a range of attribute values which can be expressed either as a numeric probability or as a coded certainty value.

Module: `tei`

Used by:

Content model:
```xml
<content>
  <alternate>
    <dataRef key="teidata.probability"/>
    <dataRef key="teidata.certainty"/>
  </alternate>
</content>
```

Declaration:
```xml
tedata.probCert = teidata.probability | teidata.certainty
```

`teidata.probability` defines the range of attribute values expressing a probability.

Module: `tei`

Used by: `teidata.probCert`

Content model:
```xml
<content> <dataRef name="double"/></content>
```

Declaration:
```xml
tedata.probability = xsd:double
```

Note: Probability is expressed as a real number between 0 and 1; 0 representing `certainly false` and 1 representing `certainly true`.

`teidata.replacement` defines attribute values which contain a replacement template.

Module: `tei`

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teidata.temporal.w3c defines the range of attribute values expressing a temporal expression such as a date, a time, or a combination of them, that conform to the W3C XML Schema Part 2: Datatypes Second Edition specification.

Module tei

Used by Element:

- `docDate/@when`

Content model

```xml
<content>
  <alternate>
    <dataRef name="date"/>
    <dataRef name="gYear"/>
    <dataRef name="gMonth"/>
    <dataRef name="gDay"/>
    <dataRef name="gYearMonth"/>
    <dataRef name="gMonthDay"/>
    <dataRef name="time"/>
    <dataRef name="dateTime"/>
  </alternate>
</content>
```

Declaration

```plaintext
teidata.temporal.w3c = xsd:date | xsd:gYear | xsd:gMonth | xsd:gDay | xsd:gYearMonth | xsd:gMonthDay | xsd:time | xsd:dateTime
```

Note If it is likely that the value used is to be compared with another, then a time zone indicator should always be included, and only the dateTime representation should be used.

teidata.temporal.working defines the range of values, conforming to the W3C XML Schema Part 2: Datatypes Second Edition specification, expressing a date or a date and a time within the working life of the document.

Module tei

Used by

Content model

```xml
<content>
  <alternate>
    <dataRef name="date"/>
  </alternate>
</content>
```
A LIST OF ELEMENTS DESCRIBED

```xml
<dataRef name="dateTime"
  restriction="(19[789][0-9]|\[2-9]\[0-9]{3}).*"/>
</alternate>
</content>
```

**Declaration**

```xml
teidata.temporal.working =
  xsd:date { pattern = "(19[789][0-9]|\[2-9]\[0-9]{3}).*" } |
  xsd:dateTime { pattern = "(19[789][0-9]|\[2-9]\[0-9]{3}).*" }
```

**Note** If it is likely that the value used is to be compared with another, then a time zone indicator should always be included, and only the dateTime representation should be used.

The earliest time expressable with this datatype is 01 January 1970 (the Unix Epoch), which could be written as either 1970-01-01 or 1970-01-01T00:00:00Z.

---

**teidata.text** defines the range of attribute values used to express some kind of identifying string as a single sequence of Unicode characters possibly including whitespace.

**Module** tei

**Used by**

**Content model**

```xml
<content> <dataRef name="string"/></content>
```

**Declaration**

```xml
teidata.text = string
```

**Note** Attributes using this datatype must contain a single token in which whitespace and other punctuation characters are permitted.

---

**teidata.truthValue** defines the range of attribute values used to express a truth value.

**Module** tei

**Used by** Element:

- `pc/@pre`

**Content model**

```xml
<content> <dataRef name="boolean"/></content>
```

**Declaration**

```xml
teidata.truthValue = xsd:boolean
```

**Note** The possible values of this datatype are 1 or true, or 0 or false.

This datatype applies only for cases where uncertainty is inappropriate; if the attribute concerned may have a value other than true or false, e.g. unknown, or inapplicable, it should have the extended version of this datatype:

```xml
teidata.xTruthValue
```

---

**teidata.unboundedInt** defines an attribute value which can be either any non-negative integer or the string "unbounded".

**Module** tei

**Used by**
teidata.version defines the range of attribute values which may be used to specify a TEI or Unicode version number.

Module tei

Used by Element:
- teiCorpus/@version

Content model

```
<content>
  <dataRef name="token"
    restriction="[\d]+(\.[\d]+){0,2}"/>
</content>
```

Declaration

```
teidata.version = token { pattern = "[\d]+(\.[\d]+){0,2}" }
```

Note The value of this attribute follows the pattern specified by the Unicode consortium for its version number (http://unicode.org/versions/). A version number contains digits and fullstop characters only. The first number supplied identifies the major version number. A second and third number, for minor and sub-minor version numbers, may also be supplied.

---

teidata.versionNumber defines the range of attribute values used for version numbers.

Module tei

Used by

Content model

```
<content>
  <dataRef name="token"
    restriction="[\d]+[a-z]*[\d]*(\.\d+[a-z]*\d*){0,3}\"/>
</content>
```

Declaration
**teidata.versionNumber** defines the range of attribute values expressed as a single word or token.

**Module** tei

**Used by** teidata.enumeratedElement:

- code/@lang

**Content model**

```xml
<content>
  <dataRef name="token"
    restriction="^[\p{C}\p{Z}]+$"/>
</content>
```

**Declaration**

```xml
teidata.versionNumber = token { pattern = "^[\d]+[a-z]*[\d]*(\.[\d]+[a-z]*[\d]*){0,3}" }
```

**Note** Attributes using this datatype must contain a single word which contains only letters, digits, punctuation characters, or symbols: thus it cannot include whitespace.

**teidata.xTruthValue** (extended truth value) defines the range of attribute values used to express a truth value which may be unknown.

**Module** tei

**Used by**

**Content model**

```xml
<content>
  <alternate>
    <dataRef name="boolean"/>
    <valList>
      <valItem ident="unknown"/>
      <valItem ident="inapplicable"/>
    </valList>
  </alternate>
</content>
```

**Declaration**

```xml
teidata.xTruthValue = xsd:boolean | ( "unknown" | "inapplicable" )
```

**Note** In cases where where uncertainty is inappropriate, use the datatype teidata.TruthValue.

**teidata.xmlName** defines attribute values which contain an XML name.

**Module** tei

**Used by**

**Content model**

```xml
<content> <dataRef name="NCName"/></content>
```
Declaration \texttt{teidata.xmlName = xsd:NCName}

Note The rules defining an XML name form a part of the XML Specification.

\texttt{teidata.xpath} defines attribute values which contain an XPath expression.

\textit{Module tei}

\textit{Used by}

\textit{Content model} \texttt{<content> <textNode/> </content>}

\textit{Declaration} \texttt{teidata.xpath = text}

\textit{Note} Any XPath expression using the syntax defined in 6.2.

When writing programs that evaluate XPath expressions, programmers should be mindful of the possibility of malicious code injection attacks. For further information about XPath injection attacks, see the article at OWASP.