

The TEI Overview

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Basic concepts



- The TEI is a modular system: you use it to build an encoding scheme appropriate to your needs, by selecting specific modules
- Each module defines a group of elements and attributes
- Elements are classified structurally and semantically
 - semantic classes group elements which have similar meanings — elements like names, or like editorial interventions for example
 - structural classes group elements which behave similarly in the structure — elements like paragraphs, or like phrases for example
 - we also talk of attribute classes: these group elements which all have the same attributes

Define your goals before using the TEI!



Mandatory (ish) modules

The TEI Overview

infrastructural

tei defines common element classes and macros textstructure defines basic "book-like" structure for prose, verse, drama

Core

header TEI metadata structure
core a wide range of elements "common to all
kinds of text"

Optional modules

- Alternative structures
 - transcribed speech
 - dictionaries and lexica
- Specialist applications
 - linking and alignment; non-standard characters and glyphs
 - abstract analysis; feature structures; certainty;
 - physical transcription; textual criticism; names and dates;
 - language corpora; manuscript description;
 - ... and not forgetting the ODD system



Basic structure(s)



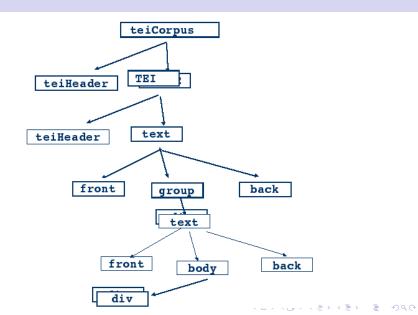
- Every TEI-conformant document comprises a header followed by (at least one) text
- the header contains:
 - mandatory file description
 - optional encoding, profile and revision descriptions
- the header is essential for:
 - bibliographic control and identification
 - resource documentation and processing

Structure of a TEI text



- A text may be unitary or composite
- a unitary text contains
 - optional front matter
 - optional back matter
 - a body
- in a composite text, the body is replaced by a group of texts (or nested groups)
- A corpus is a collection of text and header pairs. It has its own header.

TEI basic structure



A text usually has divisions

- generic, hierarchic subdivisions, each incomplete
- the type attribute is used to label a particular level e.g. as "part" or "chapter"
- the n attribute gives a particular division a name or number
- the xml:id attribute gives a particular division a unique identifier
- associated <head> and <trailer> elements (from the divtop class) may also be supplied
- A <divGen> element can be used for 'generated' divisions

For example...

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```
<t.ext.>
<front> <!-- titlepage, etc here --> </front>
<body>
 <div type='book' n='I' xml:id='JA0100'>
 <head>Book T.</head>
    <div type='chapter' n='1' xml:id='JA0101'>
    <head>Of writing lives in general...</head>
        <!-- remainder of chapter 1 here -->
   </div>
    <div n='2' xml:id='JA0102'>
       <!-- chapter 2 here -->
    </div>
 <!-- remainder of book 1 here -->
</div>
<div tvpe='book' n='II' xml:id='JA0200'>
<!-- book 2 here -->
</div>
<!-- remaining books here -->
</body></text>
```

NB. divisions always tesselate.

TEI global attributes

- The attribute class att.global defines these for all elements:
 - xml:id supplies a unique identifier
 - n supplies a (non-unique) name or number
 - rend gives a suggestion about rendition (appearance)
 - xml:lang identifies the language using an ISO standard code
- The linking module extends this class with:
 - corresp, synch, ana for specific association types
 - next, prev for aggregating fragmented elements

Text components



What are divisions composed of?

- prose is mostly paragraphs ()
- verse is mostly lines (<1>), sometimes in hierarchic groups (<1g>)
- drama is mostly speeches (<sp>) containing or
 <1> elements interspersed with stage directions
 (<stage>)

These may be mixed, and may also appear directly within undivided texts.

... but divisions can also contain embedded <text> or <quote> elements.

For example

```
<div type="book">
<l>Of Man's first disobedience, and the fruit</l>
<l>Of that forbidden tree whose mortal taste</l>
<l>Brought death into the World, and all our woe,</l>
<l>With loss of Eden...</l>
</div>
```

```
<ld type="haiku">
<l n="1">Summer grass --</l>
<l n="2">all that's left</l>
<l n="3">of warriors' dreams</l>
</lg>
```

For example

not to mention

```
.... And he wrote on one side of the paper: <quote>HELP! FIGLIT (ME) </quote> and on the other side: <quote>IT'S ME PIGLIT, HELP HELP</quote> Then he put the paper in the bottle...
```

What are speeches, paragraphs, and lines made of?

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- phrases that are conventionally typographically distinct
- "data-like" (names, numbers, dates, times, addresses)
- editorial interventions (corrections, regularizations, additions, omissions ...)
- cross references and links
- lists, notes, graphics, tables, bibliographic citations...
- all kinds of annotations!

Which of these you need to markup will depend on your research agenda

for example...

```
<head>
Of writing lives in general, and particularly of
<title>Pamela </title>, with a word by the bye of
<name key="#CIBCO3">Colley Cibber</name> and others.</head>
It is a trite but true observation, that
<q>examples work more forcibly on the mind
than precepts</q>
<name key="#JA">Mr. Joseph Andrews</name>,
<rs>the hero of our ensuing history</rs>, was
esteemed to be ...
```

Direct speech

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- Use the who attribute to show speakers
- Speeches can be nested in other speeches

<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>

Foreign language phrases

- The xml:lang attribute may be attached to any element
- Use <foreign> if nothing else is available
- Use ISO 639-2 code to identify language

```
Have you read
<title xml:lang="deu">Die Dreigroschenoper</title>?
```

```
<mentioned xml:lang="fra">
Savoir-faire </mentioned>
  is French for know-how.
```

```
John has real <foreign xml:lang="fra"> savoir-faire </foreign>.
```

Is there life beyond Unicode?

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The gaiji module allows you to define and document non-Unicode characters or glyphs

```
<charDesc>
 <qlvph xml:id="r1">
  <qlyphName>LATIN R WITH ONE FUNNY STROKE</qlyphName>
  <graphic url="rlimg.png"/>
 </qlyph>
 <qlvph xml:id="r2">
  <glyphName>LATIN R WITH TWO FUNNY STROKES
  <charProp>
     <localName>entitv</localName>
       <value>R2</value>
  </charProp>
  <graphic url="r2img.png"/>
 </qlyph>
</charDesc>
```

Character and glyph markup

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Occurrence of these two special "r"s in the text can be marked up using the element <g>:

```
Wo<g ref="#r1">r</g>ds in this
manusc&r2;ipt are sometimes
written in a funny way.
```

What appears might be the letters r1 and r2, or the graphics, or something else.

The entity r2 must also be defined.

Names and People

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The <person> element is used to hold data about a person; a name may refer to it.

Names and Referring Strings

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 The <rs> (referring string) element is used for any kind of nominal reference

```
<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>
```

Correction and Regularization

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- <corr> marks a correction
- <sic> marks a (deliberate) non-correction
- <reg> marks a regularization
- <orig> marks something deliberately un-normalized
- Use <choice> to indicate a combination of possible encodings

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

```
... and <reg>he</reg>
<corr resp="#Theobald">babbl'd</corr> ...
```

```
... and
<choice>
    <orig>a</orig>
    <reg>he</reg>
</choice>
<choice>
    <sic>table</sic>
    <corr resp="#Theobald">babbl'd</corr>
</choice>
of green
<choice>
    <orig>feelds</orig>
    <orig>fields</reg>
</choice>
```

'Inter' class elements



- list> lists of all kinds
- <note> notes (authorial or editorial)
- <figure> pictures or figures
- tables
- <bibl> bibliographic descriptions

Lists

- use st> for lists of any kind (use type attribute to distinguish)
- use <label> in two-column lists as alternative to n attribute
- may be nested as necessary

for example...

The TEI

Figures and graphics



The presence of a graphic is indicated by the <graphic> element, usually contained within a <figure> element which groups together:

- The title of the graphic (<head>)
- A description of the graphic (<figDesc>) for use by software unable to render the graphic
- The graphic resource itself is pointed to by an url attribute on the <graphic> element, and may also have attributes scale, height, width
- Alternatively, it may be directly embedded within a <binaryObject> element
- <figure>s may self-nest, and may also contain other display class items such as <formula>s

Example



```
<figure>
<head>Mr Fezziwig's Ball</head>
<figDesc>A Cruikshank engraving showing
Mr Fezziwig leading a
group of revellers.</figDesc>
<qraphic url="fezz.gif"/></figure>
```

Tables

- a element contains <row>s of <cell>s
- spanning is indicated by rows and cols attributes
- role attribute indicates whether row or column holds data or a label
- embedded tables are permitted

for example...

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A three column table

Row1 123 4567 Row2 abc defgh

Bibliography

- The tBibl> element lists bibliographic citations
- Individual citations may be represented loosely as <bib> elements, or in a more structured way as <bib>struct> elements

 Individual citations may be represented loosely as
- In either case, elements from the model.biblPart class are used, e.g.
 - <author>, <editor>, (generic) <respStmt> etc.
 - <title> with optional level attribute to distinguish monographic, analytic etc.
 - <imprint> groups publication info (publisher, date etc.)
 - <bil>Scope> adds page references etc.
- Individual citations may be linked to in the usual way

Example

```
See for example <ref
target="#REG92">Regis (1992)</ref>...
```

Notes

- Use <note> for notes of any kind (editorial or authorial)
- if in-line, use place attribute to specify location
- if out of line, either use
 - target attribute to specify attachment point
 - or mark attachment point as a <ref>

for example...

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```
<lg><1>The self-same moment I could pray></l>
<1>And from my neck so free</l>
<1>The albatross fell off, and sank</l>
<1>Like lead into the sea.
<note type="auth" place="margin">
The spell begins to break.</note> </l>
</lg>
```

or

```
...
<l>The albatross fell off, and sank</l>
<l xml:id="L213">Like lead into the sea. </l>
</lg>
...
<note type="auth" place="margin" target="#L213">
The spell begins to break.</note>
```

Other Modules



Your choice from:

- Transcription of spoken texts
- ② Dictionaries and lexica
- Varieties of linguistic annotation
- Nonstandard characters and glyphs
- Linking, alignment, non-hierarchic structures
- Detailed metadata (the TEI Header)
- Manuscript Description
- Text-critical apparatus
- Physical description
- Onomastics and ontologies
- The ODD system



Exploring TEI P5



- Visit http://www.tei-c.org/release/doc/ tei-p5-doc/html/
- alphabetical lists of classes, macros, elements
- each chapter describes a distinct module
- each module presents a semantically related list of elements, with examples of their use

Feedback and advice available to all on tei-1@listserv.brown.edu

