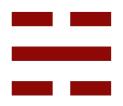




Markup, XML, TEI

Character, structure, guidelines



Content

- TEI Guidelines
 ↓ (26-31)

Procedural Markup

- Visual, typographic, representation;
- WYSWYG: What You See is ALL you Get.

Descriptive Markup

- Semantic, funcional, structured;
 - Meaning before format.

"Miguel de Cervantes wrote Don Quixote"

Procedural

<bold>Miguel de Cervantes</bold> wrote <italic>Don Quixote</italic>

Descriptive

```
Markup
<name>Miguel de Cervantes</name> wrote <title>Don Quixote</title>

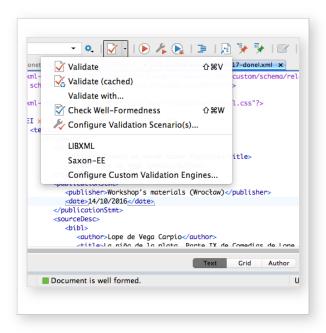
Visualization
name {font-weight: bold;} title {font-style: italic;}

Process
<xsl:for-each select="//name">
```

XML Golden Rules

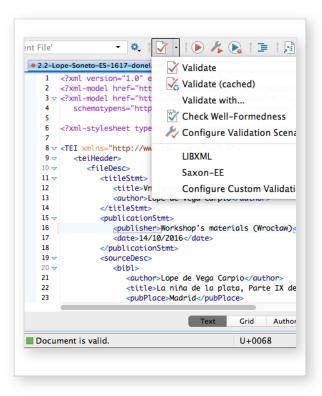
```
An element consists of a start-tag, optional content, and an end-tag.
<persname>Miguel de Cervantes</persname>
An element may have attributes, each consisting of a name and a value.
<name type="person">Miguel de Cervantes
An XML document may contain processing instructions or comments.
<? xml-stylesheet type="text/css" href="visualize-tei-xml.css"?>
    <!-- This is a comment: here starts the first sonnet -->
Elements and attributes are case sensitive.
<name> ≠ <Name>
Empty elements can use a minimized tag syntax.
<pb/> = <pb></pb>
```

Well-formed (good syntax)

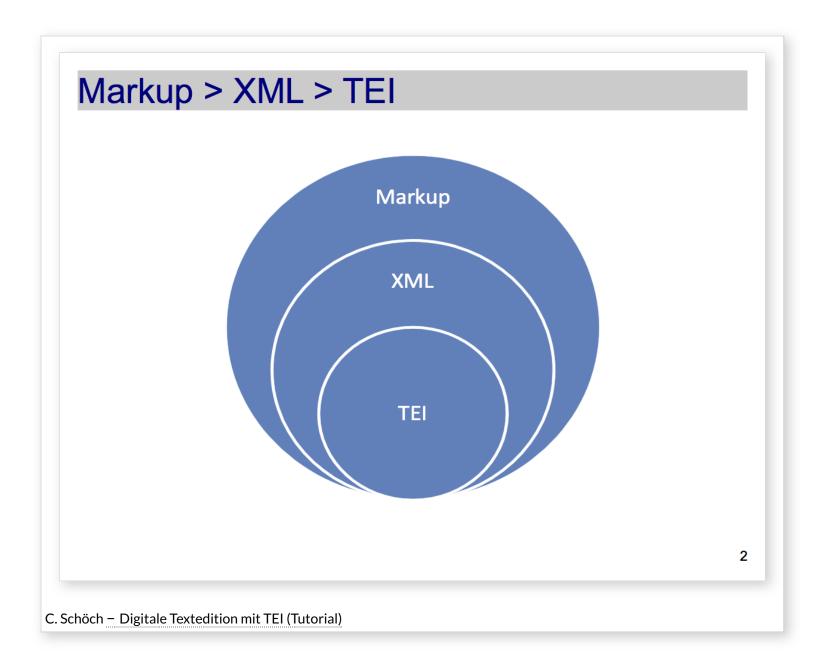


- XML-Version, character set;
- A single root element (first node) contains the XML document;
- Each element is nested within the root element in a hierarchical structure: no overlapping;
- Elements, attributes, etc., are case sensitive;
- Start-tags and end-tags are mandatory;
- Attribute values are quoted.

Valid (against the schema)



- Well-formed;
- Follows a structural definition (schema), e.g. TEI;
- Which elements and attributes are used;
- Which elements and attributes can appear where;
- Names, datatypes, and default values for all attributes.





- Development of markup for texts;
- International standard;
- Interchange of data;
- Platform independence;
- Preservation;
- Research community.
- TEI P5: Version 3.5.0. Last updated on 29th January 2019

Modular system

Each module defines a group of elements and attributes

List of TEI Modules							List of selected Modules		
	Module name		A short description	Changes			tei		
<u>add</u>	<u>analysis</u>	?	Simple analytic mechanisms			remove	<u>textstructure</u>		
<u>add</u>	<u>certainty</u>	?	Certainty and uncertainty			remove	core		
add	core	?	Elements common to all TEI documents			remove	<u>header</u>		
<u>add</u>	corpus	?	Corpus texts						
add	dictionaries	?	Dictionaries						
add	<u>drama</u>	?	Performance texts						
add	<u>figures</u>	?	Tables, formulæ, notated music, and figures						
add	g <u>aiji</u>	?	Character and glyph documentation						
add	<u>header</u>	?	The TEI Header						
add	iso-fs	?	Feature structures						
add	linking	?	Linking, segmentation and alignment						
add	msdescription	?	Manuscript Description						
<u>add</u>	<u>namesdates</u>	?	Names and dates						

<teiHeader>

```
<TEI>
   <teiHeader>
       <fileDesc> c </fileDesc>
   </teiHeader>
   <text> color="block"> </text>
</TEI>
```

<teiHeader>

```
<TEI>
  <teiHeader>
     <fileDesc>
        <titleStmt> com </titleStmt>
        <publicationStmt> continuo /publicationStmt>
        </fileDesc>
  </teiHeader>
  <text> c/text>
</TEI>
```

Content in the <teiHeader>

<text>

```
<TEI>
 <teiHeader> - </teiHeader>
  <text>
   <front> cont>
   </text>
</TEI>
```

<text>

```
<TEI>
<teiHeader> - <teiHeader>
<text>
     <front> cont>
     <body>
        </body>
     <back> color="block"> <back>
  </text>
</TEI>
```

<text>

```
<TEI>
<teiHeader> - <teiHeader>
<text>
     <body>
        <div>
           <head></head>
           </div>
     </body>
  </text>
</TEI>
```

Content in the <text>

Classes of elements

- grouped semantically: names, places, titles, ...
- grouped structurally: divisions, paragraphs, verses,...

Verse and name annotation

Atributtes inside of elements

```
Provides a unique identifier for any element:
 @xml:id
Provides a name or number for any element:
 @n
Specifies the language of any element:
 @xml:lang
Characterizes the element in some sense:
 @type
Specifies the visual appearance (rendition):
 @rend, @style, @rendition
```

Atributtes and elements

Metatextual markup for editions

Enriched with corrections, regularizations, expansions

```
Groups alternative encodings:
                       <choice> </choice>
Apparent error:
<sic> </sic>
Corrected error:
<corr> </corr>
Original form:
<orig> </orig>
Regularized form:
<reg> </reg>
```

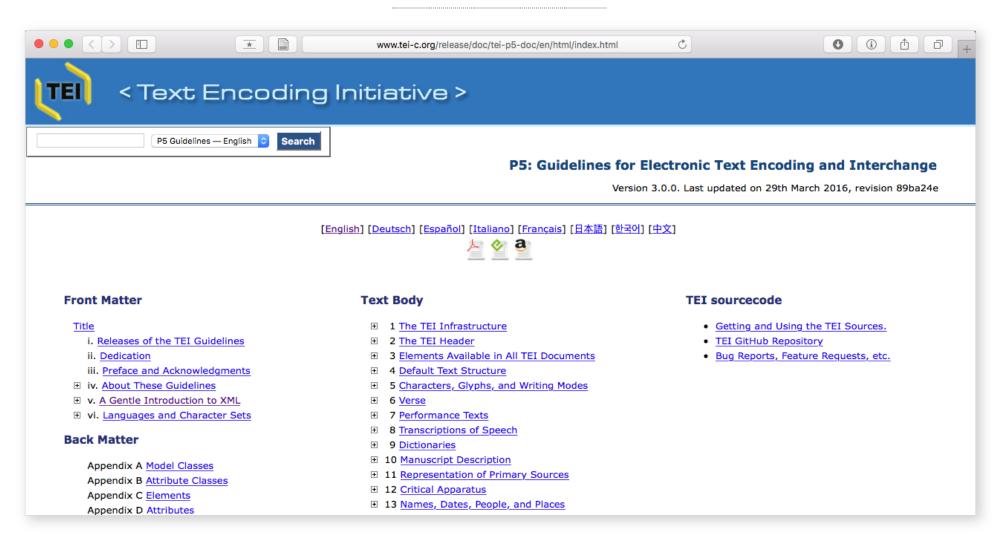
Markup for corrections

```
1 <body>
2 <lg type="quatrain">
        <1 n="1">Doris, qui fait qu'aux vers quelquefois je me plais,</l>
  >
        <1 n="3">Me demande un Sonnet; & je m'en defefpere:</l>
4
       <l n="4">Quatorze vers, grand Dieu! le moyen de les faire!</l>
        <l n="5">En voilà cependant
                  <choice>
8
                           <orig>desja</orig>
9
                           <reg>déià</reg>
                   </choice>
0
              quatre de faits.</l>
  </1q>
  </body>
```

Critical Apparatus, Dictionaries, Manuscript Description, Bibliographies, ...

nearly 500 elements

Guidelines



Information, eg., on an element

<sourcedesc></sourcedesc>		lome Element			
	urce description) describes the source from which an electronic text was derived or generated, typically a bibliographic description in the case n digital" for a text which has no previous existence. [2.2.7 The Source Description]	of a di			
Module	header — The TEI Header				
Attributes	att.global (@xml:id, @n, @xml:lang, @xml:base, @xml:space) (att.global.rendition) (@rend, @style, @rendition)) (att.global.linking (@correguesameAs, @copyOf, @next, @prev, @exclude, @select)) (att.global.analytic (@ana)) (att.global.facs (@facs)) (att.global.change (@change (att.global.responsibility (@cert, @resp)) att.declarable (@default)				
Contained by	header: biblFull fileDesc				
May contain	core: bibl biblStruct list listBibl p figures: table header: biblFull linking: ab msdescription: msDesc namesdates: listEvent listNym listOrg listPerson listPlace spoken: recordingStmt scriptStmt textcrit: listApp listWit				
Example	<pre><sourcedesc></sourcedesc></pre>				

Quick look up in the TEI *Guidelines*. TEI-Look up

TEI Roma (tool)

Generating customizations for the TEI

- possibility to choose your modules;
- possibility to create new elements;
- possibility to generate your schema;
- possibility to generate your documentation.

References

- A Gentle Introduction to XML, Guidelines for Electronic Text Encoding and Interchange, TEI P5: Version 3.5.0.
- digital.humanities @ Oxford, TEI @ Oxford Teaching Pages.
- Lou Burnard (2014), What is the Text Encoding Initiative? How to add intelligent markup to digital resources, Marseille: OpenEdition Press.
- Christof Schöch (2014), Digitale Textedition mit TEI, DARIAH TEI-Tutorial.

José Luis Losada Palenzuela, *Markup*, *XML*, *TEI*. *Character*, *structure*, *guidelines*, http://editio.github.io/presentations/xml-tei, 2019.

