XML-TEI basis

Ariane Pinche Warsaw, May 20–24, 2019.

1. What is a digital edition?

1.1 What is a text for computers?

- characters string
- fonts: https://folk.uib.no/hnooh/mufi/fonts/

1.2. What is a text for humans?

- A string of characters that most of the time makes sense.
- A text has different levels of hierarchy:
 - grammatical
 - structurel
 - semantic

1.3 Adding information in a text

There are two kinds of encoding:

- layout encoding:
 - o italic, bold, etc.
- semantic encoding
 - language, type of word, etc.

Langage	Layout encoding	Semantic encoding
LaTeX	emph{ad hoc}	\selectlanguage{latin}{ad hoc}
HTML5	<i> ad hoc </i>	<pre><i lang="la">ad hoc</i></pre>
XML-TEI	<hi rend="i">ad</hi>	<pre><foreign xml:lang="la">ad</foreign></pre>
VIVIL- I LI	hoc	hoc

1.4 XML solution

http://shelleygodwinarchive.org/sc/oxford/frankenstein/volume/i/#/p1/mode/rdg

XML can be used:

- to propose a representation of a text
- to make the scientific edition
- to allow access the text in its linearity and also as a database to interrogate.

2-What is XML

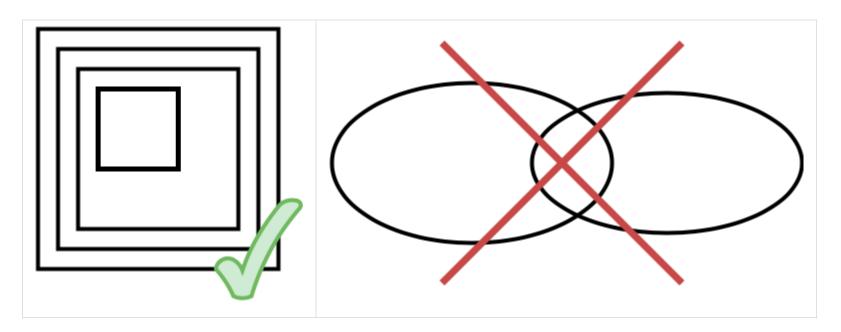
2.1 XML definition

eXtensible Markup Language

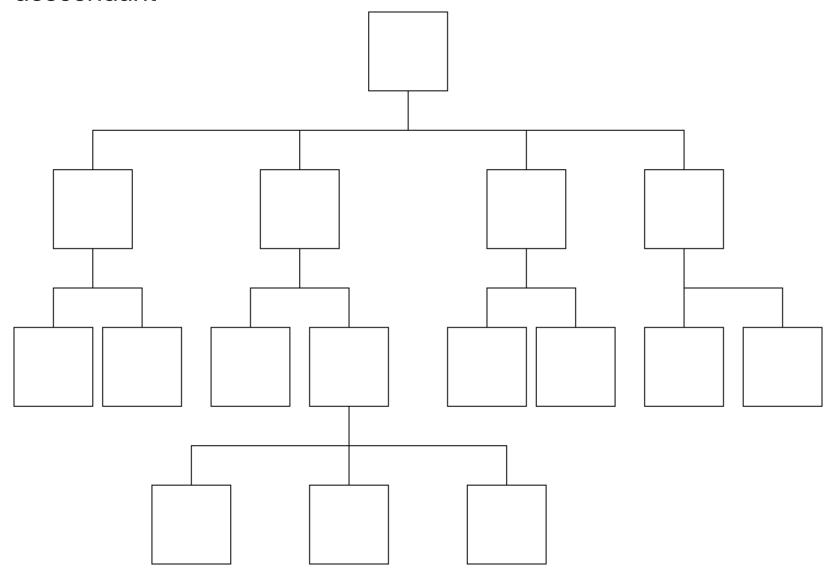
- XML is an international language since 1998 following the W3C recommendations.
- It is data format really easy and well documented.
- XML is a free language in the middle of a large community.
- XML was designed to store and transport data easily
- XML was designed to be both human- and machine-readable.
- It is a markup language created for text.
- XML has non-predefined markup set, this is why it is extensible.

2.2 XML structuration

• XML has hierarchical construction that works on imbrication.



 XML is a tree with a root element, every other elements are its descendant



XML markups are elements:

```
<ElementName>
textString
</ElementName>
```

An element can have an attribute or multiple attributes

```
<ElementName nameAttribute='attributeValue'>
textString
</ElementName>
```

• XML elements work on the principle of imbrication:

```
<Element1>
  <Element2>
    textString
  </Element2>
  </Element1>
```

2.3 Encoding

Try to encode a post card





- Create an XML element to encode the complete object
- Create an XML element to encode the recto side
- Create an XML element to encode the verso side
- On the verso side :
 - Create XML elements to encode the heading
 - Create XML elements to encode the text
 - Create XML elements to encode the address

3-What is TEI?

3.1 Definition

Text Encoding Initiative

- TEI is a consortium which collectively develops and maintains a standard for the representation of texts in digital form.
- TEI is a dataset of XML mark-up to help describe a text in digital form.

3.2 What is the interest of TEI?

- Meaning of the text before format;
- Software independence;
- Community-driven;
- Standard to exchange
- Data curation.

3.3 A bit of History

- 1987: birth of Text Encoding Initiative.
- 1990: TEI P1 (proposal 1), dir. Michael Sperberg-McQueen et Lou Burnard.
- 1992–1993: TEI P2, expansion.
- 1994: [TEI P3] (http://www.tei-c.org/Vault/GL/P3/index.htm), first complete version.
- 2000: birth of TEI Consortium.
- 2001–2004: TEI P4 uses XML.
- 2007— ...: [TEI P5] (http://www.tei-c.org/Guidelines/P5/), stop usage of SGML.

3.4 How to use it?

Translate the postcard XML markup in TEI wiht the following tags:

- text, body, div, p
- span
- closer, salute, signed
- address, persName, street, settlement

3.4.1 Base structure of a TEI document

- 1. An instruction XML
- 2. Schema declaration
- 3. Root element
- 4. Two mandatory subelements:
 - o teiHeader
 - text

• teiHeader is for metadata of the document: title / author / type of encoding, etc.

- teiHeader can have 4 subsections:
 - fileDesc (obligatory)
 - encodingDesc
 - o profileDesc
 - revisionDesc
- fileDesc has 3 obligatory parts:
 - o titleStmt
 - publicationStmt
 - sourceDesc

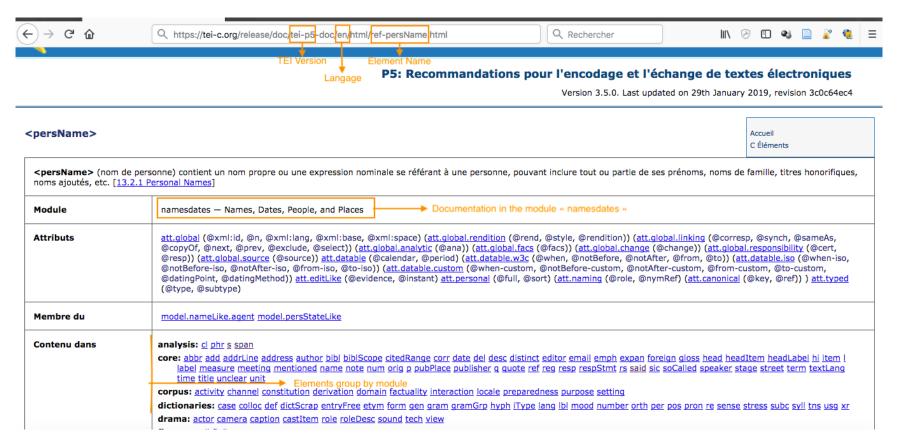
•	text is the markup where you put your textual material, you can
	arrange it in 3 parts:

- o front
- o body
- back

- 3.4.2 Documentation: how to read the guidelines
- 3.4.2.1 Develop documentation

http://www.tei-c.org/release/doc/tei-p5-doc/en/html/index.html

3.3.2.2 Documentation for a specific element



Exercice

With the guidelines help try to structure the "Sacramenta Argentariae" (The Oaths of Strasbourg)

add:

- paragraphs
- speech and information about languages used in the speech
- persName tags
- simple teiHeader

Transcription: https://fr.wikisource.org/wiki/Serments_de_Strasbourg