

Digital Humanities

DIGITAL HUMANITIES FOR MEDIEVAL PHILOSOPHICAL SOURCES

7. Representation of source apparatus in TEI

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<https://www.dhcluj.ro/dhm/>

- 1 Ontologies and trees
 - 2 Describing the elements of a textual reference
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tree abstract data structure that simulates a hierarchical arborescence (see in *Course 3*: **root**, **parent**, **children**)

- can be conceived as a tree: a text (chapters, subchapters...), a bibliography (author, work...), a text corpus etc.

ontology (in information science) definition of types, properties and relations which exhaust the entities of a domain

- the definition of all classes, attributes and relations of the objects from a text corpus represents an ontology or a model

class = typology to which the object belongs

attribute = type of propriety of the object

relation = rapport with other object types

```
<rdg cause="homeoteleuton" wit="#MsAA01"/>
class attribute          relation
```

The sources and textual references are described as bibliographic elements.

<listBibl> parent element for a bibliographic list

(may appear in header in **<sourceDesc>** or after the text body in **<back>**)

<bibl> parent element for a bibliographic indication

xml:id="□" unique identifier

<author> author of the source (simple or structured with **<name>...**)

<title> title of the source (simple or structured)

<publisher> publishing house

<editor> name of the volume editor

<pubPlace> publishing place

<date> publishing date

<biblScope> reference scope (e.g. pages, chapter)

<...> other properties (see [TEI Guidelines](#))

TEI-XML

```
<listBibl>
  <bibl xml:id="bibl001">
    <author>Aristoteles</author>
    <title>Metaphysica</title>
  </bibl>
  <bibl xml:id="bibl002">
    <author>
      <name>Stephen Ramsay</name>,
      <name>Geoffrey Rockwell</name>
    </author>
    <title level="a">Developing Things: Notes toward an Epistemology of
      Building in the Digital Humanities</title>
    <editor>
      <name>Matthew K. Gold</name>
    </editor>
    <title level="m">Debates in the Digital Humanities</title>
    <publisher>University of Minesotta Press</publisher>
    <pubPlace>Minneapolis,
      <country>USA</country>
    </pubPlace>
    <date when="2012">2012</date>
    <biblScope unit="pp" from="75" to="84">75-84</biblScope>
  </bibl>
</listBibl>
```

prosopography person list, optionally with biographic data

- uses the elements `<listPerson>`, `<person>` etc.

geography geographic locations list

- uses the elements `<listPlace>`, `<place>`,
`<geoDecl>`, `<geo>` etc.

chronology historical events list

- uses the elements `<listEvent>`, `<event>` etc.

The references may appear in the text or, more often, they are separately edited and referenced based on the unique identifier.

TEI-XML

```
<TEI>
  <teiHeader><!-- ... --></teiHeader>
  <text>
    <body>
      <p>
        <name ref="#Aug">Augustinus</name> scribit <title ref="#DeCiv">De civitate</title>
        postquam <ref target="#a410" type="event"><name ref="#Alar">Alaricus</name>
        ceperit <place ref="#Rom">Romam</place></ref>.
      </p>
    </body>
  </text>
  <back>
    <listPerson>
      <person xml:id="Aug">
        <persName>Augustinus</persName> <addName>Hipponensis</addName>
      </person>
      <person xml:id="Alar">
        <persName>Alaricus</persName> <genName>I</genName> <roleName>rex Visigothorum</roleName>
      </person>
    </listPerson>
    <listPlace>
      <place xml:id="Rom"><placeName>Roma</placeName> <geo>41.90 12.45</geo></place>
    </listPlace>
    <listEvent>
      <event xml:id="a410" when="410"><label>Anno 410 Roma ab Visigothis capta est</label></event>
    </listEvent>
    <listBibl>
      <bibl xml:id="DeCiv">
        <author ref="#Aug">Augustinus</author> <title>De civitate Dei</title>
      </bibl>
    </listBibl>
  </back>
</text>
</TEI>
```

- The references are attached with the aid of the unique identifier (`xml:id="□"`).
- The call to the unique identifier is a local identifier (prefixed with `#`) or an external URL (partial or full).
- The unique identifier may contain letters, digits (but not in the first position), some special characters (`. - _`).

```
<span xml:id="id_01"></span>      <ptr target="#id_01"/>

                                <ptr target="sources.xml#id_01"/>

                                <ptr target="http://example.com/sources.xml#id_01"/>
```

Identify the sources from the following text and encode it in TEI with a bibliographical list and links:

Quia intellectus habet duas operationes: scilicet unam qua format quiditates, in qua non est falsum, ut dicit ARISTOTELES in III *De anima*; aliam qua componit et dividit; et in hac etiam non est falsum, ut patet per AUGUSTINUM in libro *De vera religione*, qui dicit sic: “nec quisquam intelligit falsa”. Ergo falsitas non est in intellectu.

Praeterea, AUGUSTINUS in libro *LXXXIII quaestionum*, quaestio 32: “omnis qui fallitur, id in quo fallitur, non intelligit”. Ergo in intellectu non potest esse falsitas.

Item ALGAZEL dicit: “aut intelligimus aliquid sicut est, aut non intelligimus”. Sed quicumque intelligit rem sicut est, vere intelligit. Ergo intellectus semper est verus; ergo non est in eo falsitas.

THOMAS DE AQUINO, *Quaestiones disputatae de veritate*, Q. 1, art. 12