

Digital Humanities

DIGITAL HUMANITIES FOR MEDIEVAL PHILOSOPHICAL SOURCES

0. Presentation

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

- 1 Course 1: Introduction to Digital Humanities
- 2 Course 2: Semantic encoding
- 3 Course 3: Critical editing
- 4 Course 4: Principles of TEI-XML
- 5 Course 5: Representation of manuscripts in TEI
- 6 Course 6: Representation of textual variation in TEI
- 7 Course 7: Representation of source apparatus in TEI
- 8 Course 8: Visualisation of digital editions
- 9 Course 9: Integration and digital processing
- 10 Course 10: Artificial intelligence

1 What does DIGITAL HUMANITIES mean?

- a technique
- a philosophy

2 History of DIGITAL HUMANITIES

3 Domains of DIGITAL HUMANITIES

- 1 Visual representation vs. semantic representation
- 2 The semantic paradigm in the digital world
- 3 Utility of semantic encoding: integration, interfaces, data processing

1 Methods of approach for critical editions

- Best manuscript method
- Eclectic method
- Stemmatic (lachmannian) method
- Unoriented (material) method

2 Types of critical editions

- Facsimile type edition
- Eclectic edition
- Literary (critical) edition
- Diplomatic edition
- Material edition

3 Elements of a critical edition: Introduction, Text, Critical apparatus

1 The XML format

- XML syntax: tag, attribute, text, declaration, comment

2 About TEI¹

- The TEI Consortium P5 Guidelines and the document structure
 - <http://tei-c.org/>

XML

```
<?xml version="1.0"?>
<TEI xmlns="http://www.tei-c.org/ns/1.0">
  <text>
    <p xml:id="par01" lang="la">Hic est textus editionis.</p>
  </text>
</TEI>
```

¹Text Encoding Initiative

1 Indication and description of manuscripts

- manuscript identifier: place, library, shelf number
- description parts: physical, historical, contents, bibliography

2 Instruction set for describing manuscripts

<msDesc> manuscript description block

<msIdentifier> identifier: <settlement>, <repository>, <idno>...

<head> heading

<msContents> manuscript contents block: <msItem>, <locus>, <title>...

<physDesc> physical description: <objectDesc>, <supportDesc>, <dimensions>, <layoutDesc>...

<history> manuscript history: <origin>, <provenance>, <acquisition>...

<additional> additional information

<msPart> information about a section of the manuscript

1 Differences between manuscript copies

- variants of redaction
- copyist errors

2 Describing textual variations in TEI:

<app> apparatus

<lem> lemma

<rdg> reading

3 Encoding methods:

LRM Location-referenced Method

DEPAM Double End-Point Attachment Method

PSM Parallel Segmentation Method

4 Statistics and counters

1 Ontologies and trees

- tree-structured data
- objects, classes ontologies

2 Describing the elements of a textual reference

- references to author, title, work, section...: <title>, <author>...
- bibliographies: <bibl>...
- other types of references

3 Attaching the references

- inline
- using pointers

1 Conversion to classic format

- typesetting rules for editions
- specialized DTP: \LaTeX

2 Interactive interfaces

- web interfaces: client-side, server-side
- native applications

3 Inclusion of manuscript images

- TEI instructions set: <facsimile>, <surface>, <zone>, <graphic>
- image attachment: inline, pointer

4 Pitfalls of the visual

- 1 Indices and concordance tables
- 2 Query languages: *XQuery*, *XPath*
- 3 Search in text: simple, wildcard, stemmatized, lemmatized
- 4 Lemmatization, normalization, dictionaries
- 5 Digital corpora
- 6 Data-mining

- 1 What is artificial intelligence (AI) and machine learning (ML)?
- 2 Algorithms and models in ML
- 3 Training and prediction in ML
- 4 Classification of approach types in ML