

Text Encoder and Annotator

an all-in-one editor for transcribing and annotating manuscripts with RDF

Motivation

- <u>ClaviusOnTheWeb</u> Project
 - manuscripts in latin and italian language about Christopher Clavius
- Several kind of users such as historians, linguists, scholars and students deal with manuscripts
- Users often have to:
 - transcribe a manuscript from its digitized copy
 - o **annotate** the text of a transcribed manuscript

Existing tools

- Transcription and annotation are often treated as distinct steps
- Heavy weight languages are used for annotating text
- RDF-based annotation tools are often designed only for web page annotation

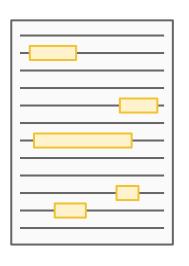
None of them provide transcription and annotation features **together**, along with RDF support.

Our Proposal

 Combine the transcription and annotation phases as they were one joined process

- Use a lightweight markup language
- Use RDF triples for specifying details of annotations

Inline vs Standoff



Inline:

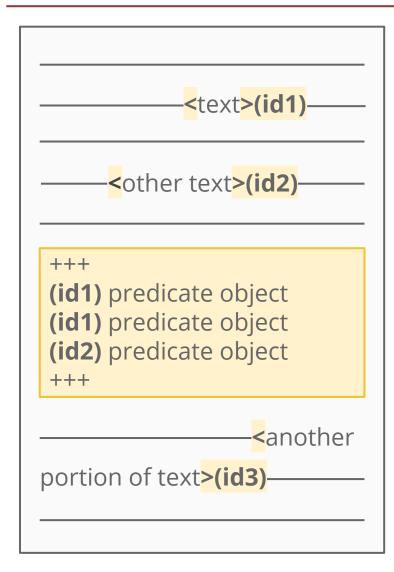
- annotations are included within the text
- an annotation and its text are kept close each other
- annotations could make the text heavier
- text could become hard to read
- a complex annotation language could make the annotation process difficult



Standoff:

- annotations are apart from the text and store offsets
- no markup overloading
- standoff could raise problems if a transcription error is found during the subsequent annotation phase

Lightweight Markup Language



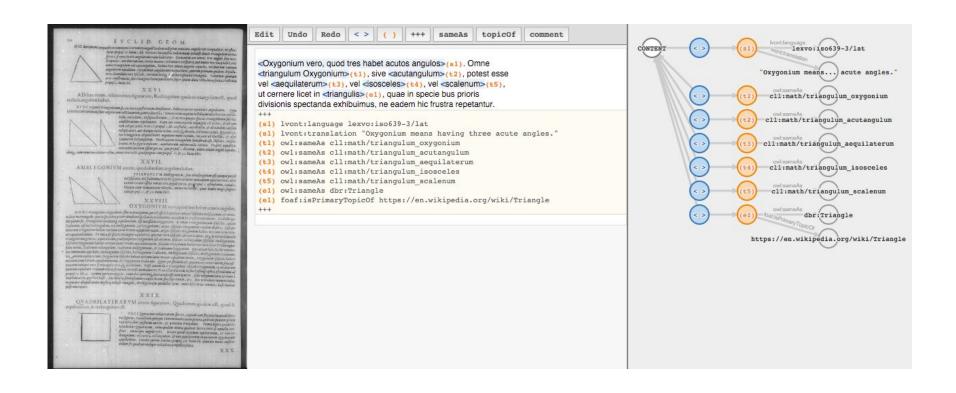
Inline lightweight syntax for:

- marking portions of text
- labeling them with an **identifier**

"Standoff-like" syntax for:

 creating a directive section in which the annotation details can be specified using RDF

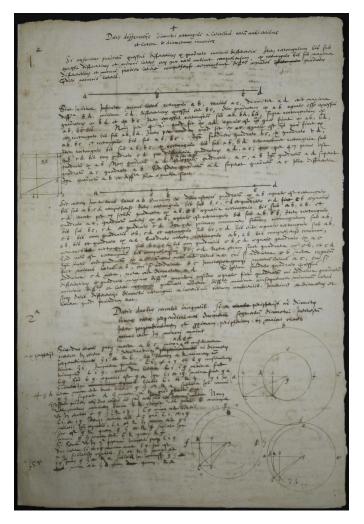
Text Encoder and Annotator (TEA)



Manuscript image

Editor

Summary Diagram



Letter written
by Jean Chastellier
to Christoph Clavius
Paris 4 dicembre 1594

(Historical Archives of the Pontifical Gregorian University, APUG 530 cc. 73r-74v)







• Annotation about the whole document:

Jean Chastellier a Christoph Clavius in Roma Paris 4 dicembre [1594] (1) APUG 530 cc. 73r-74v Autografa

Editor's reconstructions:

... solutionem neque tamen debitor illius sum [quoniam replicavi] aliud mihi agendum esse deinde ut v[olo] [solvimus] ita ...

• Editor's comments:

... hoc nostro collegio studia (3) mathematica (4) hora 2a post meridiem et schola ...

Author's additions:

... erit ig {hoc est gd} quam gh et ...

• Sheet identifiers:

73v 74r

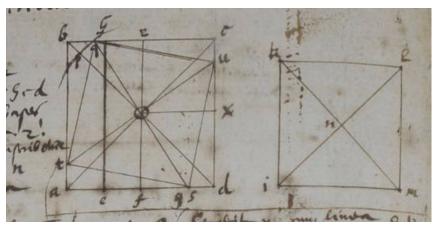
Drawing of figures by typing characters

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Annotating the presence of an image



A Part of the same

[FIGURE]

[FIGURE 2]

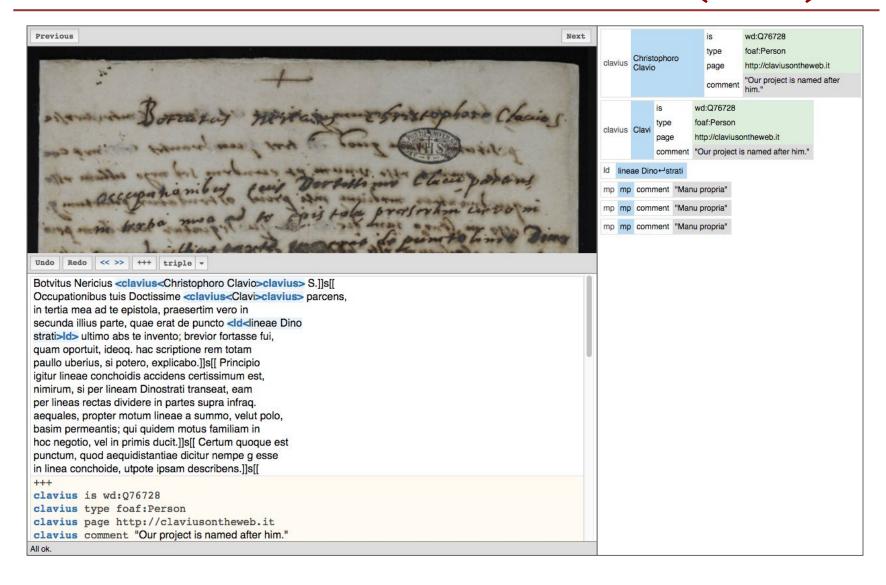
[FIGURE 3a-3b-3c]

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Future Works

- New syntax allowing overlapping and nested annotations
- New interface designed for hosting multiple views (manuscript image, editor, summary)
- Triple export using different formats (XML, Turtle, JSON-LD) in compliance with different models (Open Annotation and NIF2)
- Annotation on images. Even big ones like digitizations of maps (Matteo Ricci, World map of 1602)

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Thank you!

Questions?

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