

## Towards a data model for (inter)textual relationships

Connecting Ancient Egyptian texts and understanding scribal practices

## Outline of the talk

- Background information about the Ramses Project & Ramses Online
- Evolution of the data model between 2006 and 2016
- Data models: state-of-the-art in digital editing
- Towards a data model for (inter)textual relationships in Ancient Egyptian

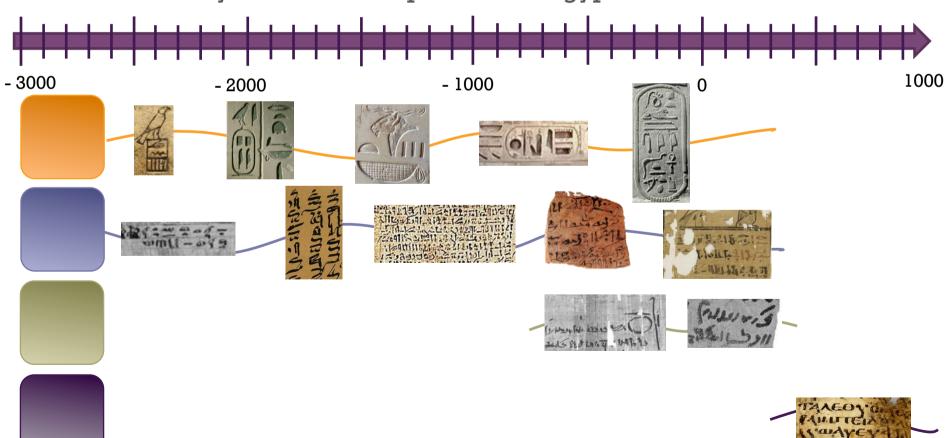
# + The Ramses Project & Ramses Online

Background information

## The Ramses Project

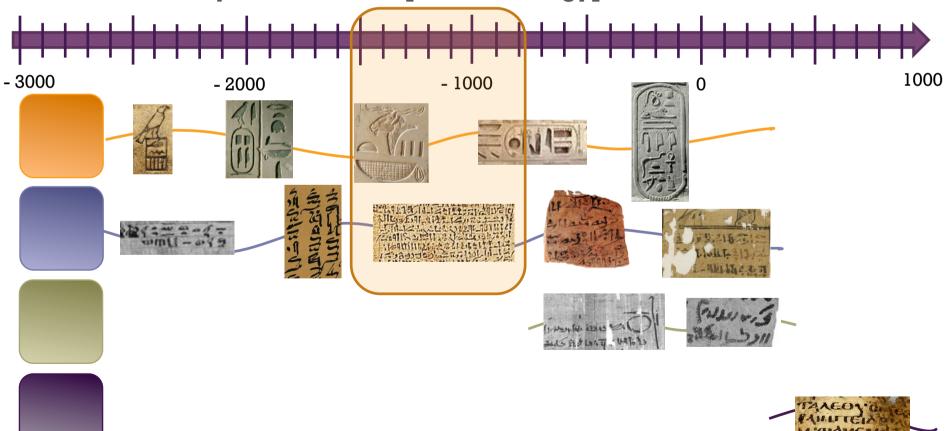
#### Goal

Build a richly annotated corpus of Late Egyptian texts



#### Goal

Build a richly annotated corpus of Late Egyptian texts





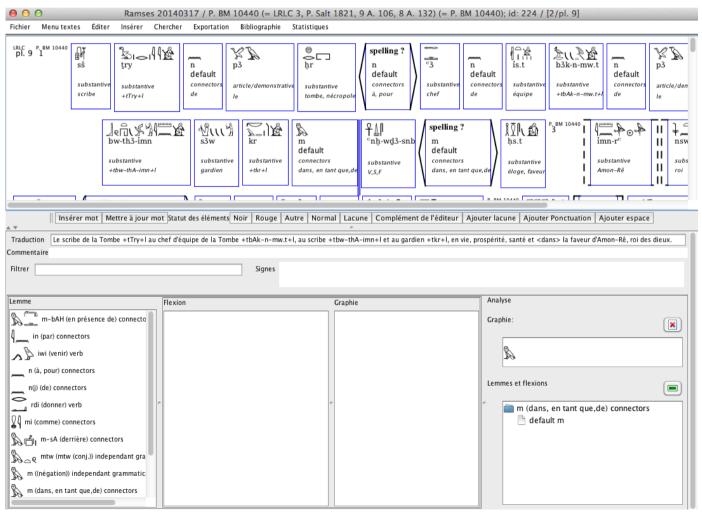


#### Goal

- Build a richly annotated corpus of Late Egyptian texts
- Useful both for philologists and linguists

### JAVA software (MySQL – texts stored in XML)

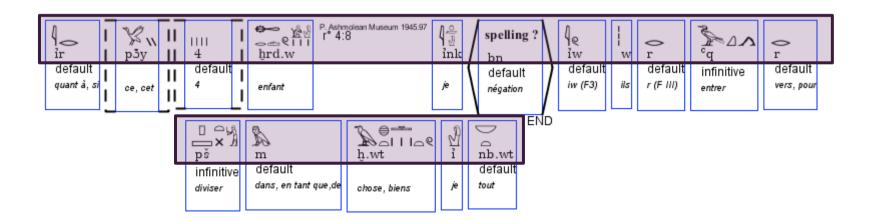
- LexiconEditor
- TextEditor



## The Ramses Project

What kind of data?

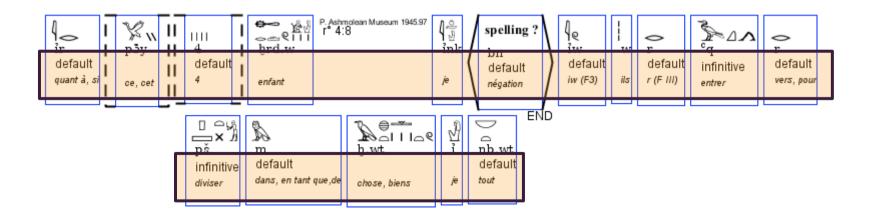
Hieroglyphic spellings





#### What kind of data?

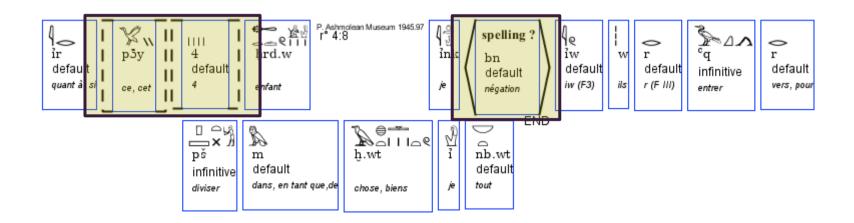
- Hieroglyphic spellings
- Lemmatization and morphological annotation





#### What kind of data?

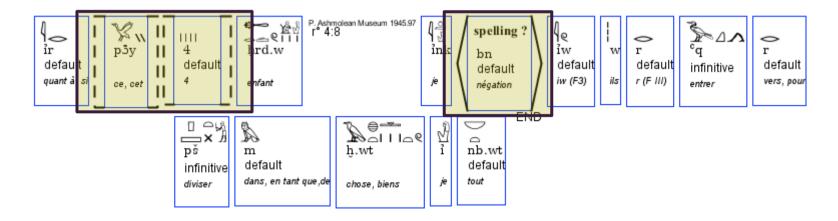
- Hieroglyphic spellings
- Lemmatization and morphological annotation
- Textual criticism





#### What kind of data?

- Hieroglyphic spellings
- Lemmatization and morphological annotation
- Textual criticism
- Translation (French / English)



12

History (2006-2016)







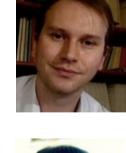


























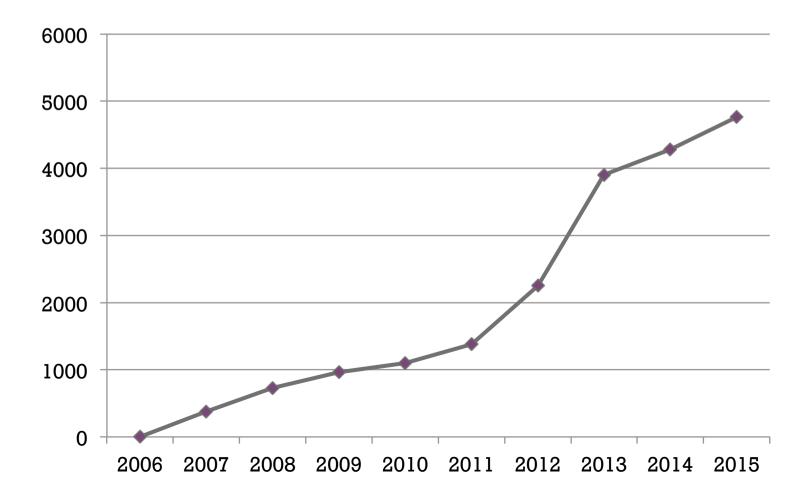






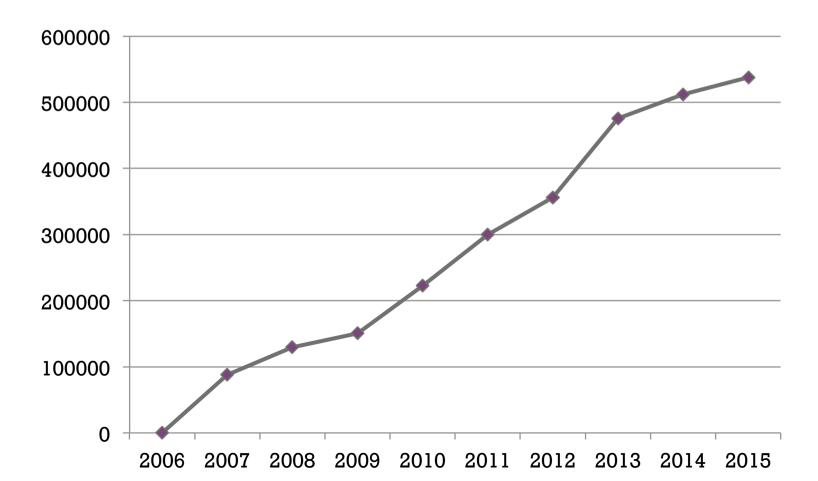
### The corpus

Number of witnesses



### The corpus

Number of occurrences





### Ramses Online un corpus annoté du néo-égyptien

À propos - Corpus - Recherches - Aide Version bêta Enregistrement Mot de passe oublié login

#### Recherche simple dans les textes







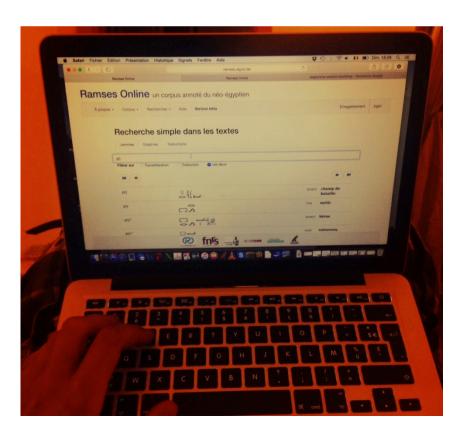






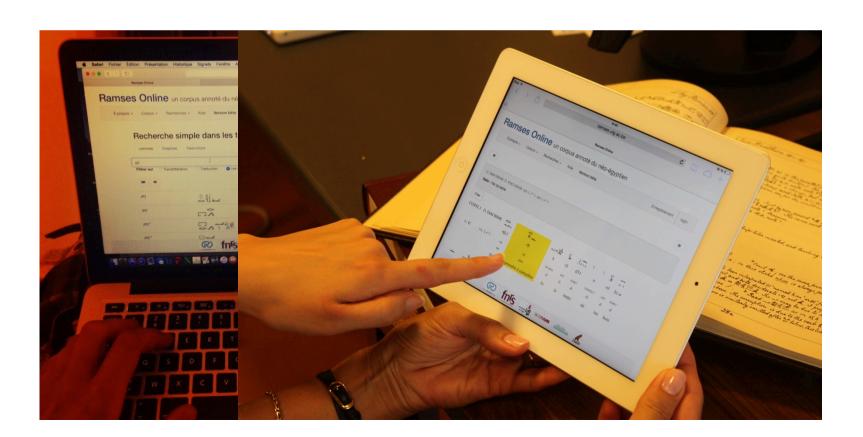


■ Responsive website based on *Bootstrap* 



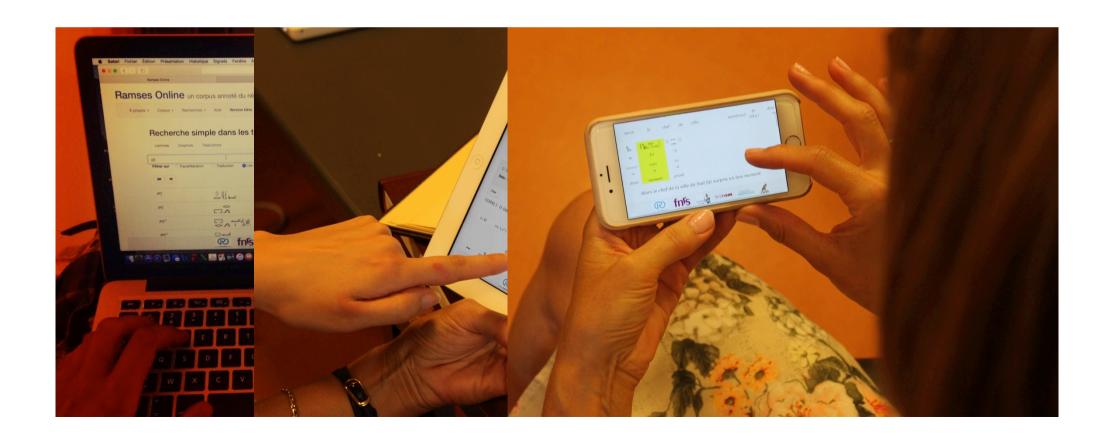


Responsive website based on Bootstrap



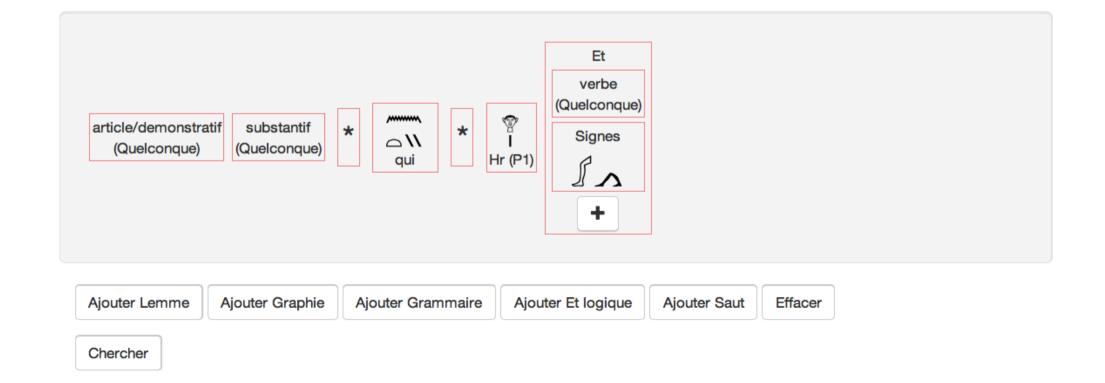


■ Responsive website based on *Bootstrap* 



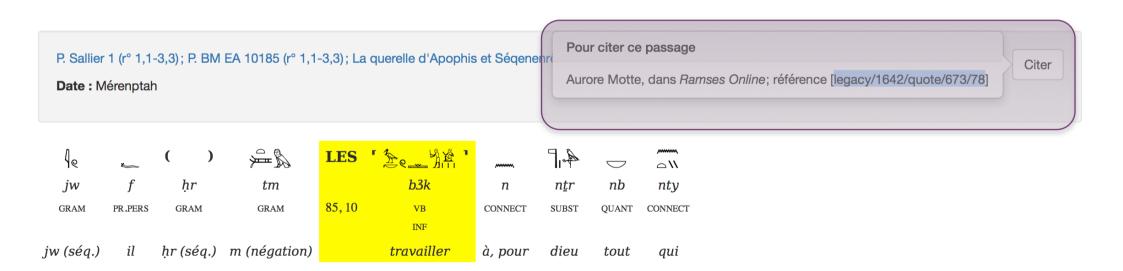


- Responsive website based on *Bootstrap*
- With powerful linguistic searching capabilities





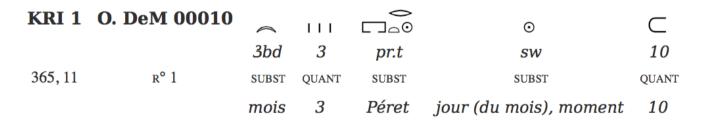
- Responsive website based on *Bootstrap*
- With powerful linguistic searching capabilities
- In interaction with its users





- Responsive website based on *Bootstrap*
- With powerful linguistic searching capabilities
- In interaction with its users





3e mois de Péret, 10e jour :







### Collaborations

### ■ TEI interchange format

- Laurent Coulon (EPHE Paris)
- Frederik Elwert (CERES Bochum)
- Emmanuelle Morlock (HiSoMA CNRS)
- Stéphane Polis (F.R.S.-FNRS Liège)
- Vincent Razanajao (ULg Liège)
- Serge Rosmorduc (CNAM Paris)
- Simon Schweitzer (BBAW Berlin)
- Daniel A. Werning (EXC Topoi Berlin)





### Collaborations

#### ■ TEI interchange format

- Laurent Coulon (EPHE Paris)
- Frederik Elwert (CERES Bochum)
- Emmanuelle Morlock (HiSoMA CNRS)
- Stéphane Polis (F.R.S.-FNRS Liège)
- Vincent Razanajao (ULg Liège)
- Serge Rosmorduc (CNAM Paris)
- Simon Schweitzer (BBAW Berlin)
- Daniel A. Werning (EXC Topoi Berlin)
- Linked metadata
  - Thot (thot.philo.ulg.ac.be)



#### THOT - THESAURI & ONTOLOGY

for documenting Ancient Egyptian Resources

Thanks to the Anneliese Majer Research Award granted to Prof. Jean Winand by the Humboldt Foundation, the Department of Egyptology of the University of Liege, in collaboration with the Berlin-Brandenburg Academy of Sciences and the Saxon Academy of Sciences in Leipzig (Thesaurus Linguae Aegyptiae), is now developing Thot, a set of resources for documenting and encoding ancient Egyptian resources in a shared, interoperable approach. Moving towards Web Semantic and Linked Open Data, the resources that will be pushed online progressively will consist in a set of thesauri covering most of the metadata relating to ancient Egyptian texts and monuments, as well as a proposal for a TEI interchange format that enables exchange and sharing of textual data.

#### Thesauri

multilingual thesauri related to documentary and textual for scholars working on Ancient Egyptian-Coptic (3000 metadata, aiming at providing controlled vocabularies BC-1350 AD), mainly because of the different writing and terms so that Egyptological projects with text and systems that have been used throughout the history of easier way (read more).

#### TEI exchange format

scopes of the projects involved in creating apportated corpora of Ancient Egyptian-Coptic. In collaboration with several leading projects in this field. That is coordinating the definition of a XML/TEI interchange format in order to enable this data sharing (read more).













Access That Thesaur



Access That Thesaur



### Collaborations

#### ■ TEI interchange format

- Laurent Coulon (EPHE Paris)
- Frederik Elwert (CERES Bochum)
- Emmanuelle Morlock (HiSoMA CNRS)
- Stéphane Polis (F.R.S.-FNRS Liège)
- Vincent Razanajao (ULg Liège)
- Serge Rosmorduc (CNAM Paris)
- Simon Schweitzer (BBAW Berlin)
- Daniel A. Werning (EXC Topoi Berlin)

#### ■ Linked metadata

- Thot (thot.philo.ulg.ac.be)
- Trismegistos (http://trismegistos.org/)



#### THOT - THESAURI & ONTOLOGY

for documenting Ancient Egyptian Resources

Thanks to the Anneliese Majer Research Award granted to Prof. Jean Winand by the Humboldt Foundation, the Department of Egyptology of the University of Liege, in collaboration with the Berlin-Brandenburg Academy of Sciences and the Saxon Academy of Sciences in Leipzig (Thesaurus Linguae Aegyptiae), is now developing Thot, a set of resources for documenting and encoding ancient Egyptian resources in a shared, interoperable approach, Moving towards Web Semantic and Linked Open Data, the resources that will be pushed online progressively will consist in a set of thesauri covering most of the metadata relating to ancient Egyptian texts and monuments, as well as a proposal for a TEI interchange format that enables exchange and sharing of textual data.

#### Thesauri

easier way (read more).

#### TEI exchange format

multilingual thesauri related to documentary and textual for scholars working on Ancient Egyptian-Coptic (3000 metadata, aiming at providing controlled vocabularies BC-1350 AD), mainly because of the different writing and terms so that Egyptological projects with text and systems that have been used throughout the history of scopes of the projects involved in creating apportated corpora of Ancient Egyptian-Coptic. In collaboration with several leading projects in this field. That is coordinating the definition of a XML/TEI interchange format in order to enable this data sharing (read more)

e::istdb

#### TRISMEGISTOS

An interdisciplinary portal of papyrological and epigraphical resources formerly Egypt and the Nile valley (800 BC-AD 800), now expanding to the Ancient World in general

How to cite TM

COLLECTIONS



### Collaborations

#### ■ TEI interchange format

- Laurent Coulon (EPHE Paris)
- Frederik Elwert (CERES Bochum)
- Emmanuelle Morlock (HiSoMA CNRS)
- Stéphane Polis (F.R.S.-FNRS Liège)
- Vincent Razanajao (ULg Liège)
- Serge Rosmorduc (CNAM Paris)
- Simon Schweitzer (BBAW Berlin)
- Daniel A. Werning (EXC Topoi Berlin)

#### ■ Linked metadata

- Thot (thot.philo.ulg.ac.be)
- Trismegistos (http://trismegistos.org/)



#### TEXT ENCODING INITIATIVE CONFERENCE AND MEMBERS' MEETING 2015 OCTOBER 28-31, LYON, FRANCE

#### THOT - THESAURI & ONTOLOGY

for documenting Ancient Egyptian Resources

Thanks to the Anneliese Majer Research Award granted to Prof. Jean Winand by the Humboldt Foundation, the Department of Egyptology of the University of Liege, in collaboration with the Berlin-Brandenburg Academy of Sciences and the Saxon Academy of Sciences in Leipzig (Thesaurus Linguae Aegyptiae), is now developing Thot, a set of resources for documenting and encoding ancient Egyptian resources in a shared, interoperable approach, Moving towards Web Semantic and Linked Open Data, the resources that will be pushed online progressively will consist in a set of thesauri covering most of the metadata relating to ancient Egyptian texts and monuments, as well as a proposal for a TEI interchange format that enables exchange and sharing of textual data.

#### Thesauri

multilingual thesauri related to documentary and textual for scholars working on Ancient Egyptian-Coptic (3000 metadata, aiming at providing controlled vocabularies and terms so that Egyptological projects with text and systems that have been used throughout the history of

#### TEI exchange format

BC-1350 AD), mainly because of the different writing scopes of the projects involved in creating apportated corpora of Ancient Egyptian-Coptic. In collaboration with several leading projects in this field. That is coordinating the definition of a XML/TEI interchange format in order to enable this data sharing (read more)

Access That Thesaur











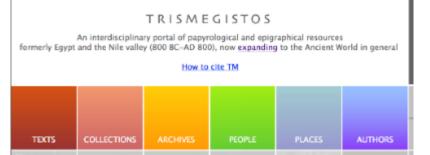


### TopBib (http://topbib.griffith.ox.ac.uk/)











## Evolution of the data model

Between 2006 and 2016

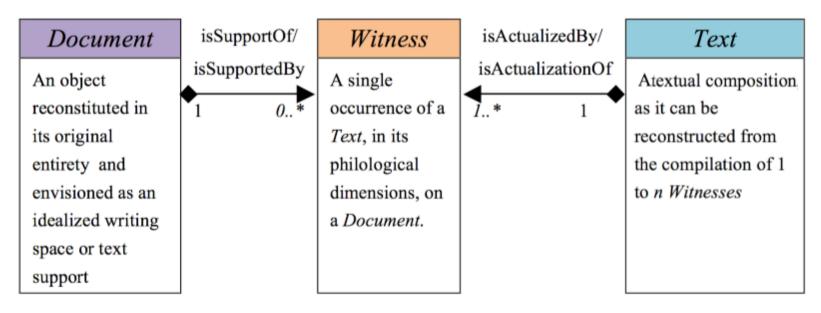


## Evolution of the data model

- The original model (2006)
- The Thot Data Model (TDM 2016)
- Towards TDM 2.0

### Evolution of the data model

■ The original model (2006)

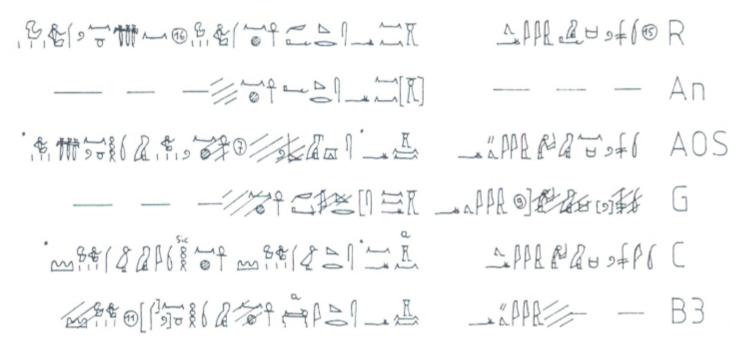


Following the egyptological practice, the decision was made to encode in hieroglyphs (and to annotate) every single witness of each text (envisioned as an abstraction). The document, on the other hand, was seen as the object on which multiple witnesses could occur.

⇒ No ideal/intended text, rather individual scribes as agents

## Evolution of the data model

■ The original model (2006)

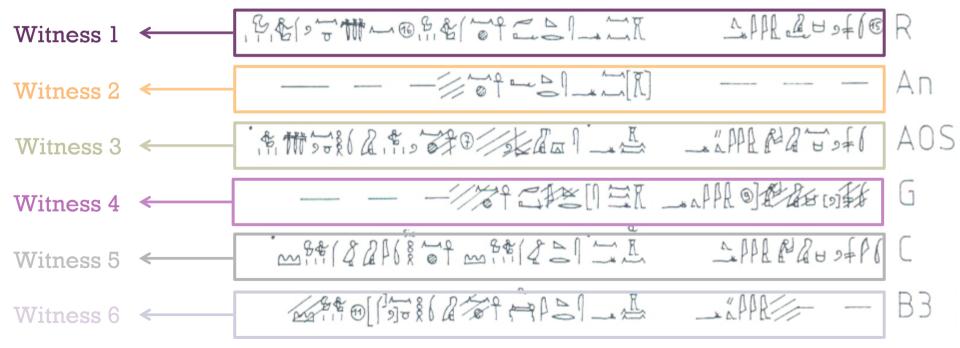


Synoptic edition of Sinuhe (Koch 1990: 8,2-7)



### Evolution of the data model

■ The original model (2006)

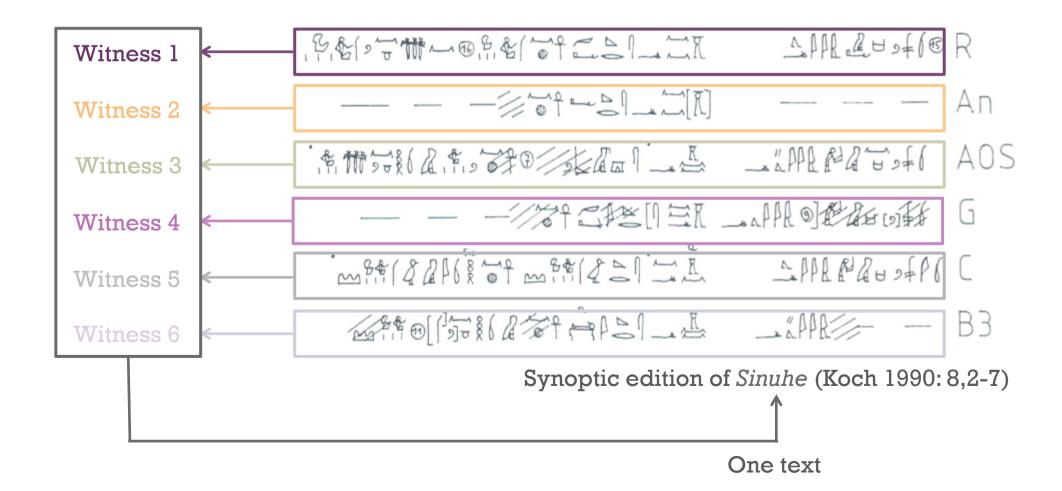


Synoptic edition of Sinuhe (Koch 1990: 8,2-7)



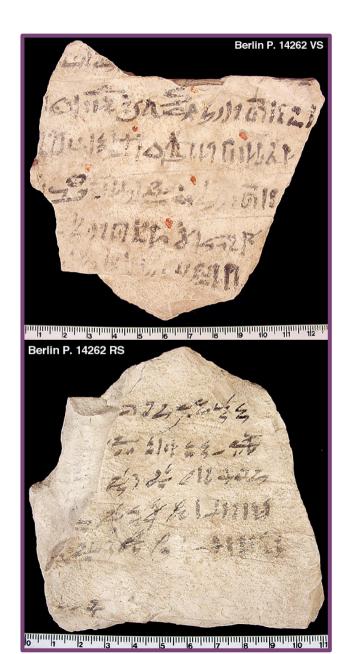
### Evolution of the data model

■ The original model (2006)



## Evolution of the data model

■ The original model (2006)



One document



### Evolution of the data model

■ The original model (2006)

Witness 1
Literary text
(hymn)

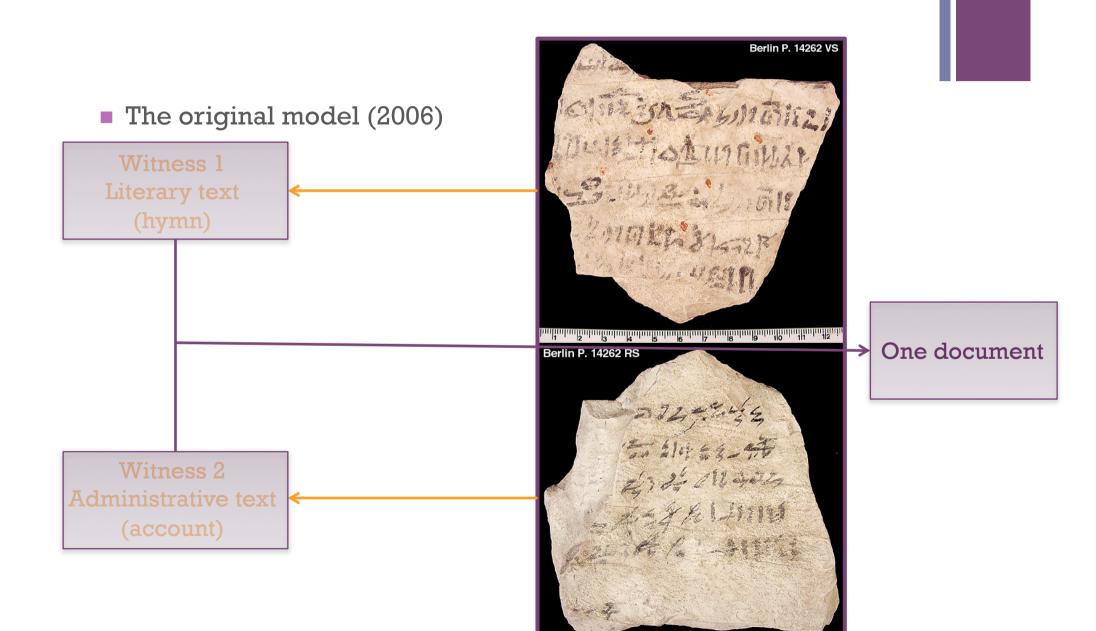
Berlin P. 14262 RS landan l

Berlin P. 14262 VS

One document

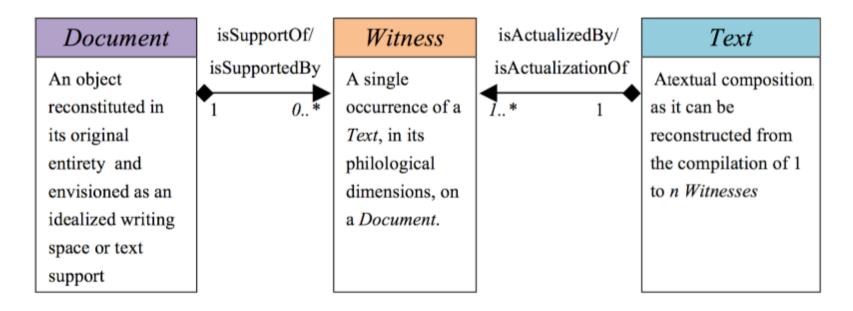
Witness 2
Administrative text (account)

## Evolution of the data model



### Evolution of the data model

■ The original model (2006)



"The [documentary and textual] dimensions are incapable of disconnection: (...) they negatively constitute one another and (...) this consitution requires human agency at every step, from composition to reception."

(Eggert 2004: 169; see already Eggert 1998: 57)



## Evolution of the data model

- The original model (2006)
- The Thot Data Model (TDM 2016) & material philology



- The original model (2006)
- The Thot Data Model (TDM 2016) & material philology

Object(s)	Document	Witness(es)	Text
(A)  (A)	B (2)	またでがいることが、 またでがいることが、 またでからます。という。 は、当ない。 は、一つでは、 は、一つでは、 は、一つでは、 は、一つでは、 は、できる。 は、と。 は、と。 は、と。 は、と。 は、と。 は、と。 は、 は、 は、 は、 は、 は、 は、 は、 は、 は、	三会(12つ 二川五十八月と O. EV 180.614 三会(12つ 12 川五十八月と O. EW 41541 三会(12つ 12 川五十八月と O. Code. 15 196 日曜 7世 1 日間 O. Dan 1248。 日曜 7世 1 日間 O. Dan 1248。
(B)			
O. IFAO 1255 A (v°) + O. IFAO 1255 B (v°) + (O. Varille 39 [= V]; lost)	Reconstructed original potsherd ostracon based on the three Objects	Occurrence of the Teaching of Amennakhte (§39-48) on O. IFAO 1255 B (v°) [+ V lost]	Abstract version of the Teaching of Amennakhte, viewed here as a Synoptic edition

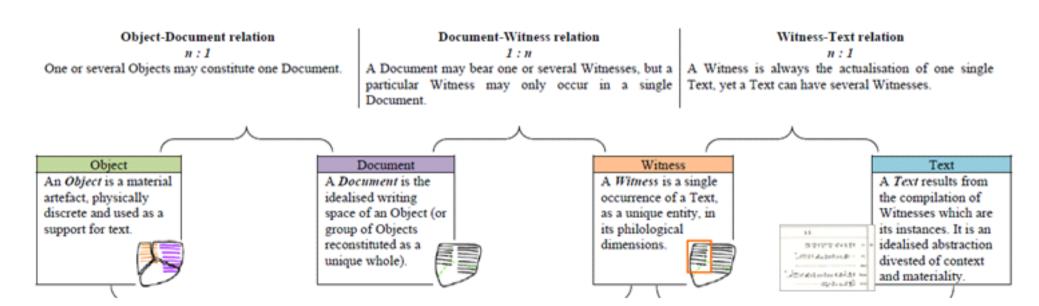


- The original model (2006)
- The Thot Data Model (TDM 2016) & material philology

Object(s)	Document	Witness(es)	Text
(A)  (A)  (B)	B (z) A	されて水できる: X: 日本は、1000年の1200年	三位(1200 年) 日本11 日本 0. KV 180.614 三位(1200 年) 月本11 日本 0. KW 180.614 三位(1200 年) 月本11 日本 0. KW 41541 日本 11 日本 11 日本 11 日本 12
O. IFAO 1255 A (v°) + O. IFAO 1255 B (v°) + (O. Varille 39 [= V]; lost)	Reconstructed original potsherd ostracon based on the three <i>Objects</i>	Occurrence of the Teaching of Amennakhte (§39-48) on O. IFAO 1255 B (v°) [+ V lost]	Abstract version of the Teaching of Amennakhte, viewed here as a Synoptic edition

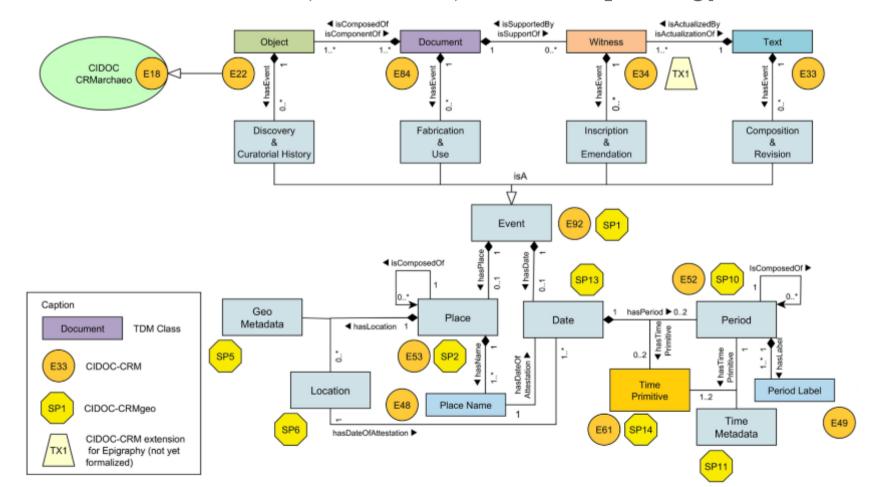


- The original model (2006)
- The Thot Data Model (TDM 2016) & material philology
  - St. Polis & V. Razanajao (2016), Ancient Egyptian texts in contexts. Towards a conceptual data model (the Thot Data Model TDM), to appear in *Bulletin of the Institute of Classical Studies* (special issue: 'Digital approaches to the Ancient World').





- The original model (2006)
- The Thot Data Model (TDM 2016) & material philology





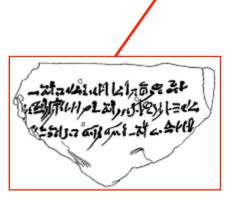
- The original model (2006)
- The Thot Data Model (TDM 2016) & material philology
- Towards TDM 2.0
  - Why?



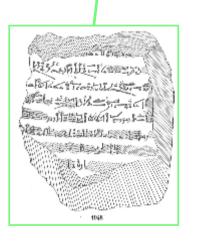
P. Mag. Isis (P. CGT 54051) = the main Witness of the Text (Isis magical papyrus)

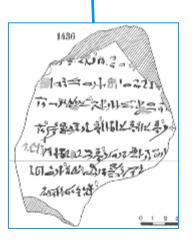


Other Witnesses of the Text, occurring on different Documents (ostraca)



「日本のののできたさら」「他 「日本ののできた。」「日本の 「日本ののできた。」「日本のできた。」」「日本のできた。」「





O. Gardiner O. Nash 14

O. DeM 1048

O. DeM 1046

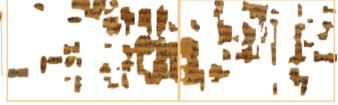


### P. Mag. Isis (P. CGT 54051 r°)



P. Chester Beatty XI (ro)







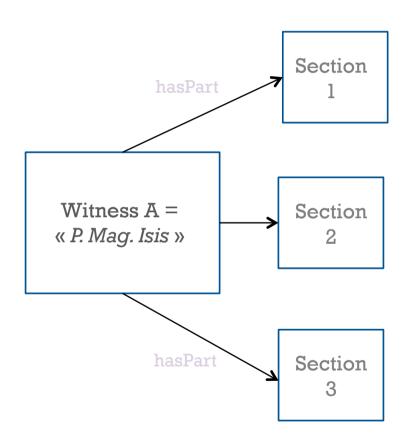
### P. CGT 54051 is composed of

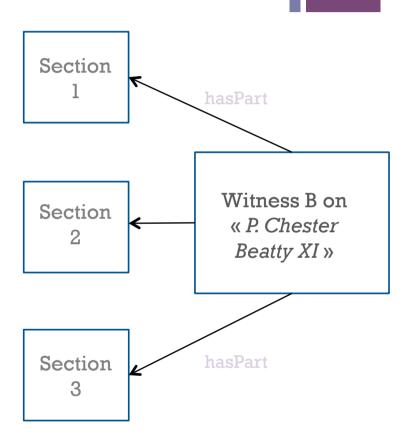
- A group of incantations (r° 2,1-8)
- A formula for bandaging (r° 2,8–12)
- The story of Isis & Ra (ro 2, 12 5,5)
- A group of formulae ( $r^{\circ}$  5, 12 6,3)
- A group of formulae ( $v^{\circ}$  2,6 5,1)

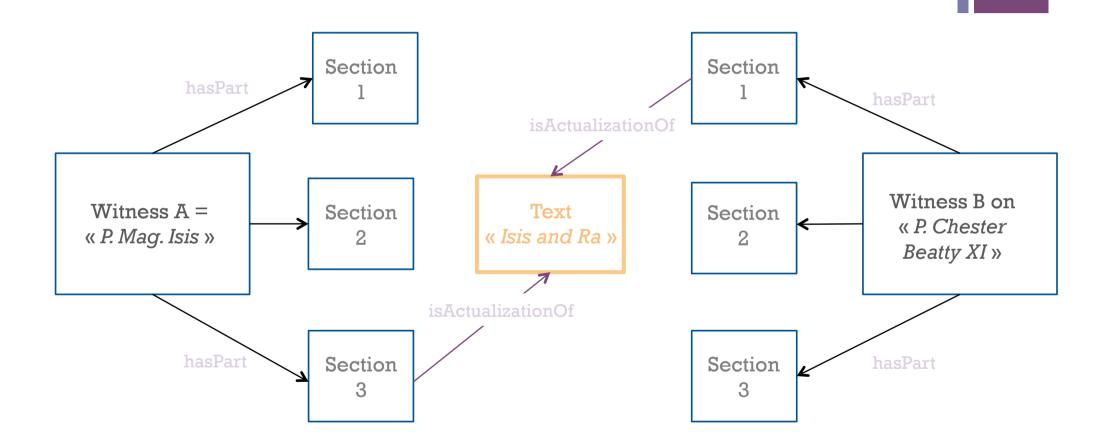
### P. Chester Beatty XI is composed of

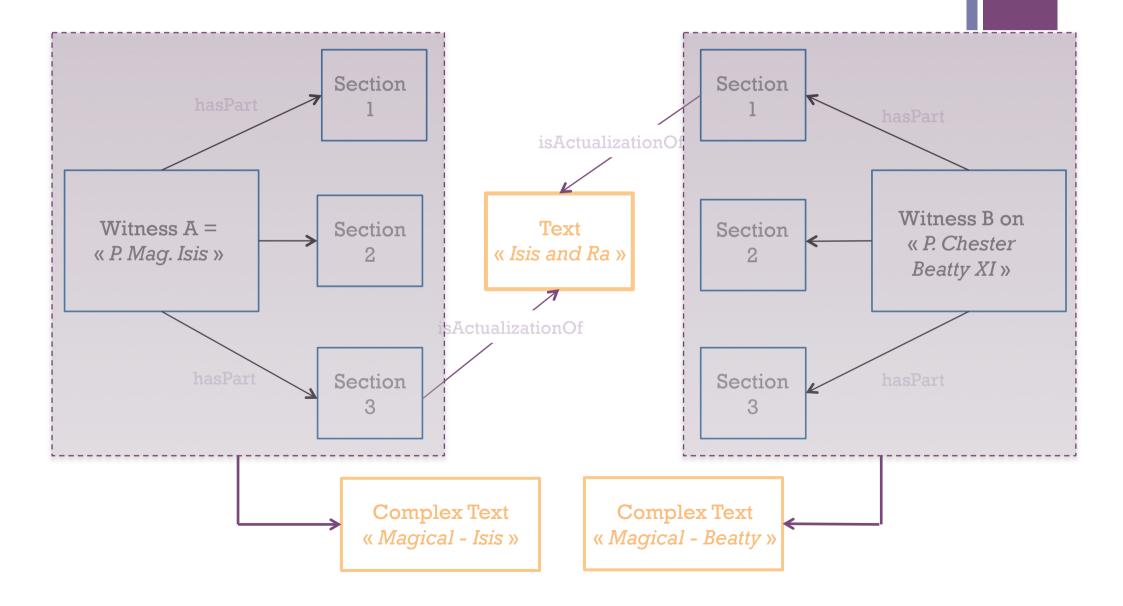
- The story of Isis & Ra  $(r^{\circ} l, l-4, l)$
- A group of magical spells (r° 4,2-10)
- A magical text against scorpions (ro, fgmts A-L)
- The end of a magical text ( $v^{\circ}$  1,1-3)
- An account (v° 1,4-10)
- An hymn to the god Amun (v° 2-3)
- A group of formulae for "safety upon the river" (v°, fgmts A-D)

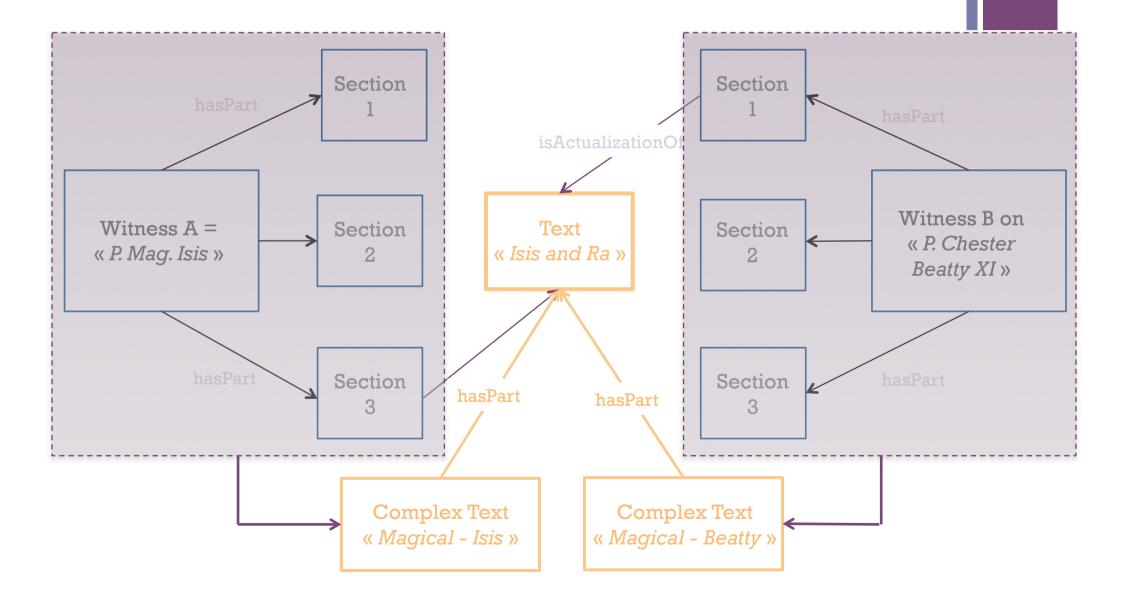






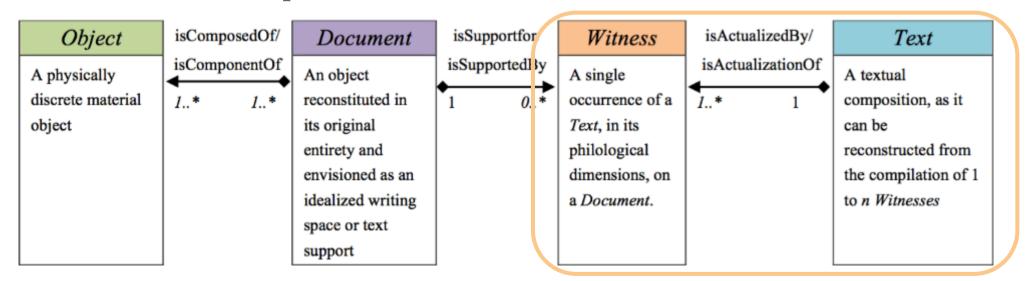








- The original model (2006)
- The Thot Data Model (TDM 2016)
- Towards TDM 2.0
  - Why?
  - With which model can we handle such cases?
    - Relationships between witnesses
    - Relationships between texts





## Data models

State-of-the-art in digital editing



■ 'Digital approaches to intertextuality' is a hot topic



## Data models for digital editing

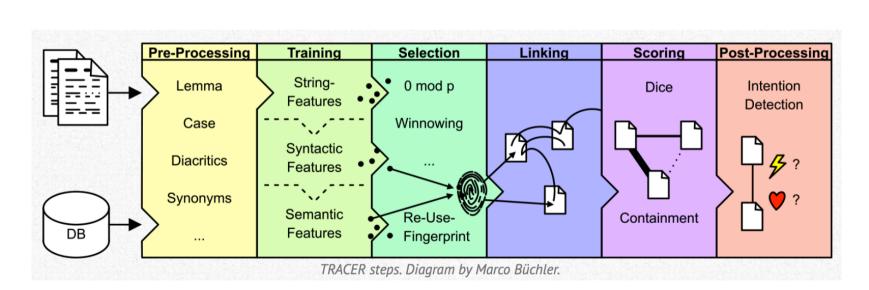
■ 'Digital approaches to intertextuality' is a hot topic



## Data models for digital editing

52

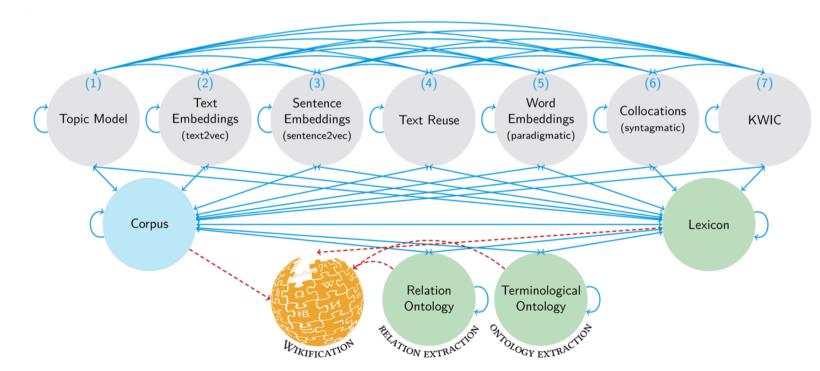
- 'Digital approaches to intertextuality' is a hot topic
- Many tools (and a huge body of literature) for automatic detection of INTERTEXTS and TEXT REUSE (NLP)





53

- 'Digital approaches to intertextuality' is a hot topic
- Many tools (and a huge body of literature) for automatic detection of INTERTEXTS and TEXT REUSE (TAL)









54

- 'Digital approaches to intertextuality' is a hot topic
- Many tools (and a huge body of literature) for automatic detection of INTERTEXTS and TEXT REUSE (TAL)



PAIR: Pairwise Alignment for Intertextual Relations

PAIR (Pairwise Alignment for Intertextual Relations) is a si implementation of a sequence alignment algorithm for hun text analysis designed to identify "similar passages" in larg collections of texts. These may include direct quotations, plagiarism and other forms of borrowings, commonplace expressions and the like. We are developing two currently streams:

**PhiloLine** (for PhiloLogic alignment) is the experimental model, written largely by Mark (in very old fashioned perl), designed to perform all-against-all comparisons in documents loaded into a PhiloLogic database. An entire corpus is indexed and compare against itself, or another database, to find text reuse.

March 2009: We have released version 0e of PhiloLine. To get some sense of what this does and how it currently works, please consult our ARTFL-Frantext Release Notes. We have put this into production for ARTFL and are using it for a number of other projects. We have fairly extensive installation and use instructions in our Release Notes. This is known to work for English, French, Greek, and other language document collections up to 11,500 documents and 520 million words.







## Data models for digital editing

55

- 'Digital approaches to intertextuality' is a hot topic
- Many tools (and a huge body of literature) for automatic detection of INTERTEXTS and TEXT REUSE (TAL)



#### **Latin Search**

The Tesserae project aims to provide a flexible and robust web interface for exploring intertextual parallels. Select two poems below to see a list of lines sharing two or more words (regardless of inflectional changes).

Compare Texts

For an overview of all advanced features, see the Instructions page.

Source:	Catullus	
	Carmina 🗘	
	Full Text 🗘	
Target:	Vergil	
	Georgics 🗘	
	Book 1 🗘	
	show advanced	



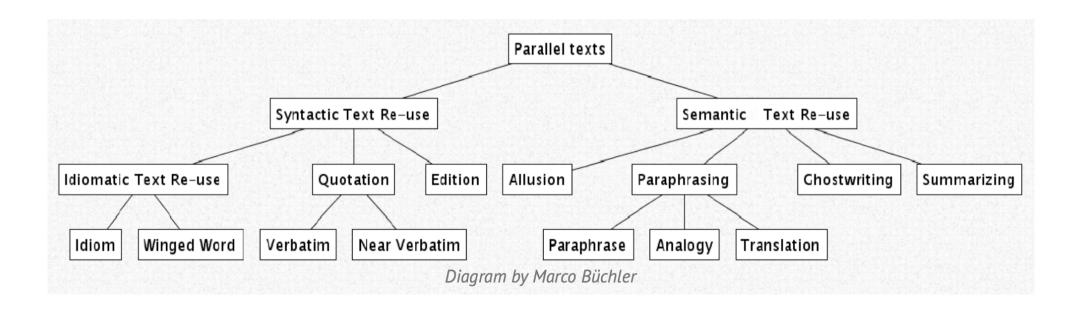








- 'Digital approaches to intertextuality' is a hot topic
- Many tools (and a huge body of literature) for automatic detection of INTERTEXTS and TEXT REUSE (TAL)





- 'Digital approaches to intertextuality' is a hot topic
- Many tools (and a huge body of literature) for automatic detection of INTERTEXTS and TEXT REUSE (TAL)
- Theoretical framework



- 'Digital approaches to intertextuality' is a hot topic
- Many tools (and a huge body of literature) for automatic detection of INTERTEXTS and TEXT REUSE (TAL)
- Theoretical framework





- 'Digital approaches to intertextuality' is a hot topic
- Many tools (and a huge body of literature) for automatic detection of INTERTEXTS and TEXT REUSE (TAL)
- Theoretical framework



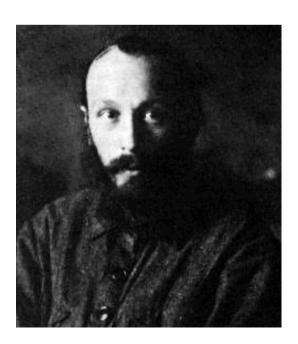


The text is seen as

"a mosaic of
quotations; any text
is the absorption and
transformation of
another" (1986: 37)



- 'Digital approaches to intertextuality' is a hot topic
- Many tools (and a huge body of literature) for automatic detection of INTERTEXTS and TEXT REUSE (TAL)
- Theoretical framework







"any text is a new tissue of past citations. Bits of code, formulae, rhythmic models, fragments of social languages, etc., pass into the text and are redistributed within it, for there is always language before and around the text" (1981: 39)



- 'Digital approaches to intertextuality' is a hot topic
- Many tools (and a huge body of literature) for automatic detection of INTERTEXTS and TEXT REUSE (TAL)
- Theoretical framework











- 'Digital approaches to intertextuality' is a hot topic
- Many tools (and a huge body of literature) for automatic detection of INTERTEXTS and TEXT REUSE (TAL)
- Theoretical framework
  G. Genette (1997 [1982]), Palimpsests: Literature in the second degree
  - Intertextuality
  - Paratextuality
  - Metatextuality
  - Hypertextuality
  - Architextuality



- 'Digital approaches to intertextuality' is a hot topic
- Many tools (and a huge body of literature) for automatic detection of INTERTEXTS and TEXT REUSE (TAL)
- Theoretical framework
- Data models
  - "In the context of digital editing, by modelling we mean at least two types of conceptualization: the one that tries to organize entities such as texts, documents, works, along with their relationships and how they have happened to come into being, and the analytical process of establishing the kind and purpose for the production of a new edition, its implied community of users and what features best represent their various needs." (Pierazzo 2015: 48)

# Data models for digital editing

- 'Digital approaches to intertextuality' is a hot topic
- Many tools (and a huge body of literature) for automatic detection of INTERTEXTS and TEXT REUSE (TAL)
- Theoretical framework
- Data models
  - The FRBR data model (1997 [2009])

## FUNCTIONAL REQUIREMENTS FOR BIBLIOGRAPHIC RECORDS

#### **Final Report**

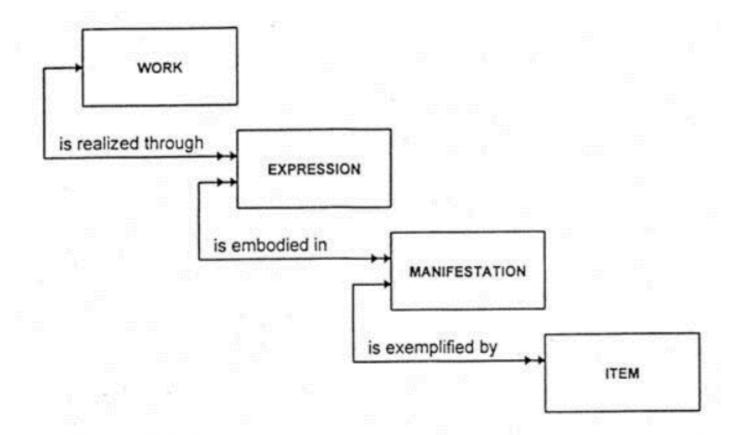
IFLA Study Group on the Functional Requirements for Bibliographic Records

Approved by the Standing Committee of the IFLA Section on Cataloguing

September 1997

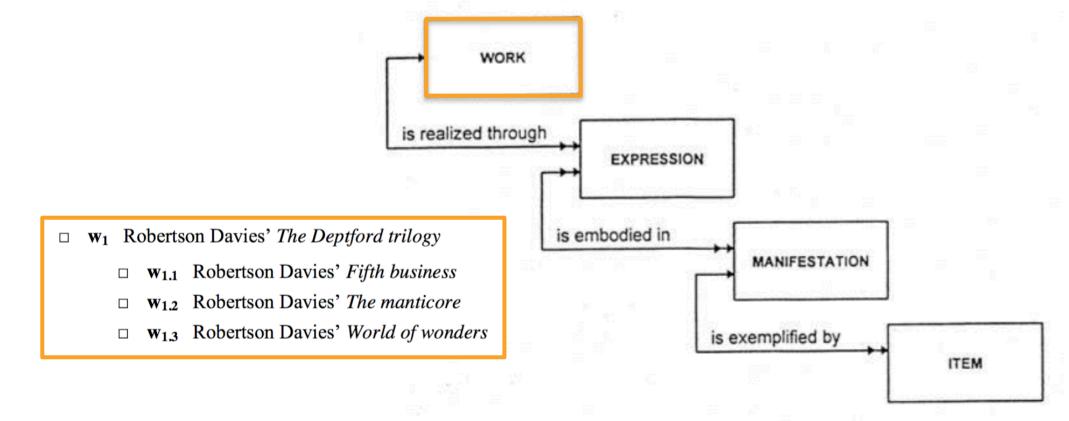
## Data models for digital editing

■ Four basic elements

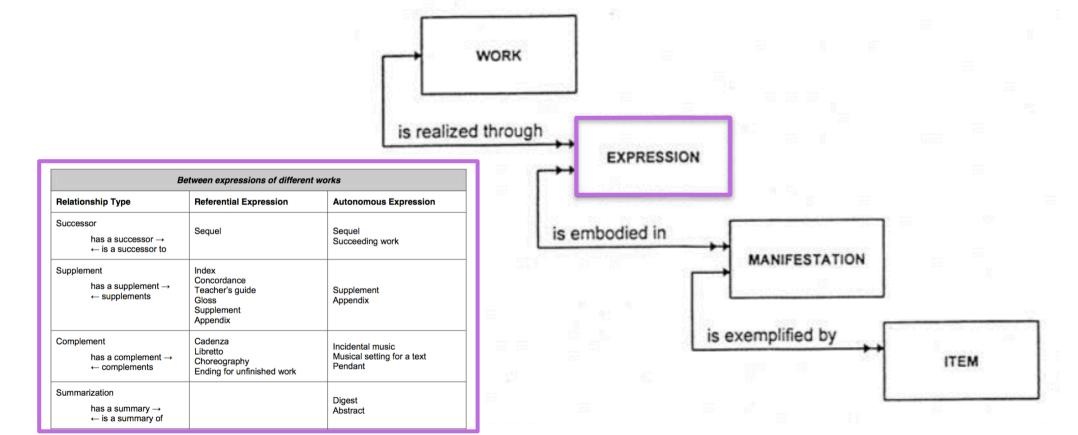




- Four basic elements
- Relationships between these elements



- Four basic elements
- Relationships between these elements





- 'Digital approaches to intertextuality' is a hot topic
- Many tools (and a huge body of literature) for automatic detection of INTERTEXTS and TEXT REUSE (TAL)
- Theoretical framework
- Data models
  - The FRBR data model (1997 [2009])

    'Neo-platonistic idealism'

    Cf. Rafferty (2015) "the notion of work points to intertextuality, with all its potential for rich analysis, but at the same time it embeds deep in its system the logocentrism of the ideal signified"

## FUNCTIONAL REQUIREMENTS FOR BIBLIOGRAPHIC RECORDS

#### **Final Report**

IFLA Study Group on the Functional Requirements for Bibliographic Records

Approved by the Standing Committee of the IFLA Section on Cataloguing

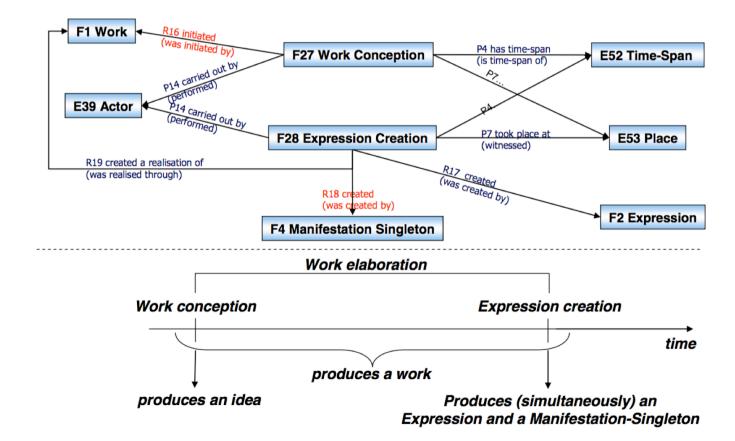
September 1997



- 'Digital approaches to intertextuality' is a hot topic
- Many tools (and a huge body of literature) for automatic detection of INTERTEXTS and TEXT REUSE (TAL)
- Theoretical framework
- Data models
  - The FRBR data model (1997 [2009])
  - FRBRoo (> CIDOC-CRM)

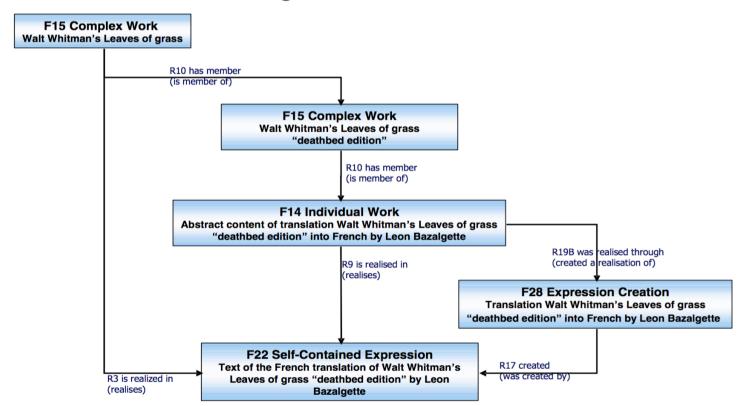


- FRBRoo is the FRBR ontology revised and expressed in an objectoriented form compatible with that of the CIDOC-CRM
  - Strong orientation towards modelling intellectual processes





- FRBRoo is the FRBR ontology revised and expressed in an objectoriented form compatible with that of the CIDOC-CRM
  - Strong orientation towards modelling intellectual processes
  - Addition of some interesting elements



- 'Digital approaches to intertextuality' is a hot topic
- Many tools (and a huge body of literature) for automatic detection of INTERTEXTS and TEXT REUSE (TAL)
- Theoretical framework
- Data models
  - The FRBR data model (1997 [2009])
  - FRBRoo (> CIDOC-CRM)
  - Pierazzo (2015), *Digital Scholarly Editing*

## Data models for digital editing

#### **DOCUMENT**

### ■ Pierazzo (2015)

- Interpretative process
- Multiple dimensions
- A single occurrence of 'intertextuality' in the book, about the documents' "literary dimension: style, rhetorical features, genre, intertextuality, citations and allusions."

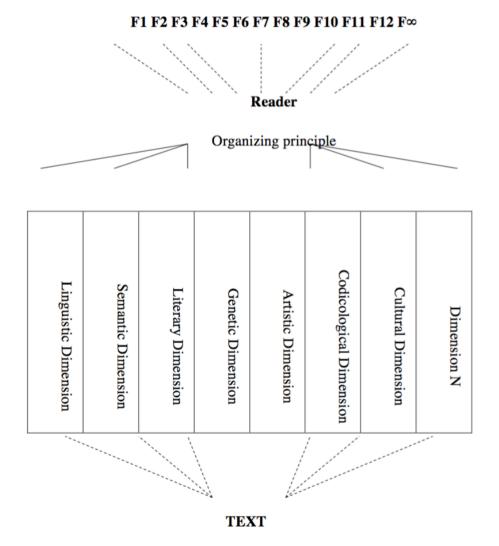
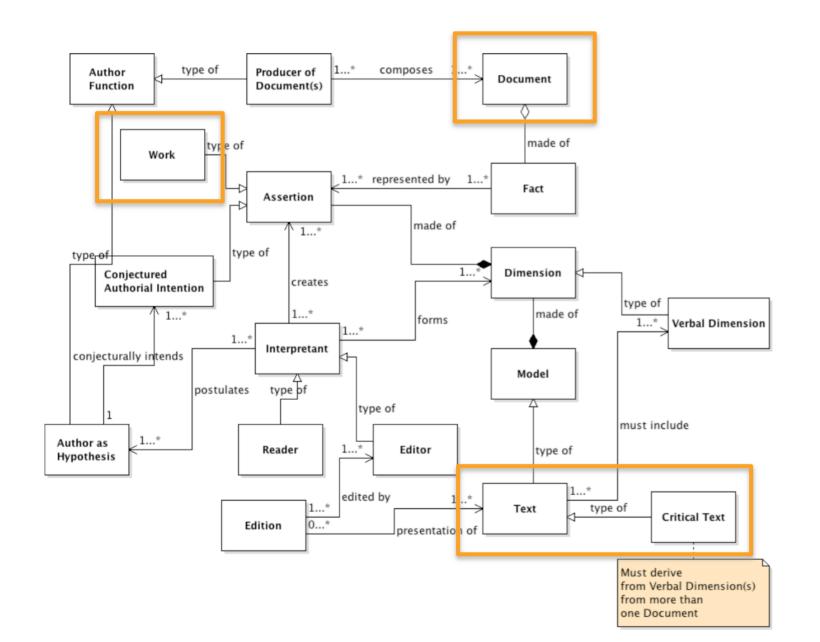
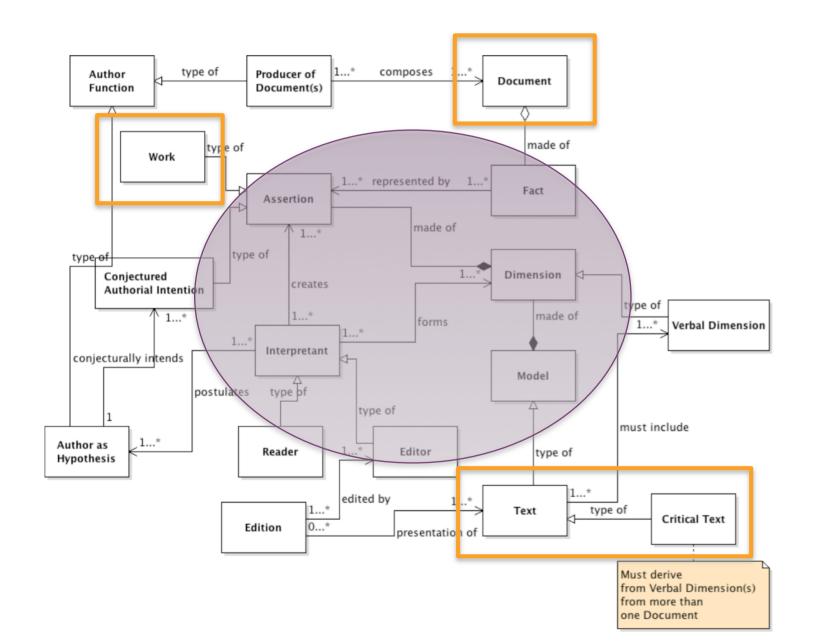


Figure 2.1: Conceptual model of texts and documents







- 'Digital approaches to intertextuality' is a hot topic
- Many tools (and a huge body of literature) for automatic detection of INTERTEXTS and TEXT REUSE (TAL)
- Theoretical framework
- Data models
  - The FRBR data model (1997 [2009])
  - FRBRoo (> CIDOC-CRM)
  - Pierazzo (2015), Digital Scholarly Editing
  - Hedges et al. (2016, in press) S(haring) A(ncient) W(isdom)S project

## Data models for digital editing

■ Hedges et al. (2016, in press) – SAWS ■ They worked with an extension of FRBRoo marginalia locus E33\_Linguistic\_ Object language owl:Thing edition \* material E1\_CRM\_Entity section person 'content item' definition 'other content item' F23\_Expression\_ Fragment statement

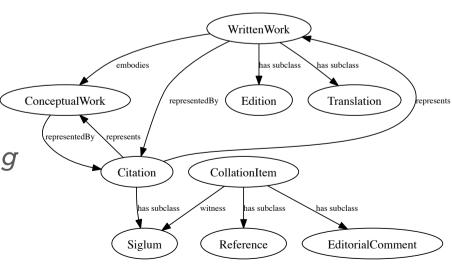
narrative

■ Hedges et al. (2016, in press) – SAWS ■ They worked with an extension of FRBRoo marginalia comment locus E33\_Linguistic\_ Object language owl:Thing edition \* material E1 CRM Entity section person 'content item' All the 'intertextual' definition relationships are defined at the 'other content level of E33 'Linguistic Object' item' F23\_Expression\_ Fragment statement

narrative



- 'Digital approaches to intertextuality' is a hot topic
- Many tools (and a huge body of literature) for automatic detection of INTERTEXTS and TEXT REUSE (TAL)
- Theoretical framework
- Data models
  - The FRBR data model (1997 [2009])
  - FRBRoo (> CIDOC-CRM)
  - Pierazzo (2015), *Digital Scholarly Editing*
  - Hedges et al. (2016, in press)
  - [L(inking) A(ncient) W(orld) D(ata) http://lawd.info]





- To sum up
  - The concept *work* as an abstract/unifying element represented by witnesses/expressions



### ■ To sum up

- The concept *work* as an abstract/unifying element represented by witnesses/expressions
- 'Part-whole' relationships
  - Work-level: 'Complex' works made of 'simpler' works
  - Witness-level: 'Complex' witnesses made of smaller witnesses



### ■ To sum up

- The concept *work* as an abstract/unifying element represented by witnesses/expressions
- 'Part-whole' relationships
  - Work-level: 'Complex' works made of 'simpler' works
  - Witness-level: 'Complex' witnesses made of smaller witnesses
- Other relationships
  - Between different works ('sequel', 'imitation', etc.)
  - Between different witnesses ('verbatim copy of', 'translation', etc.)

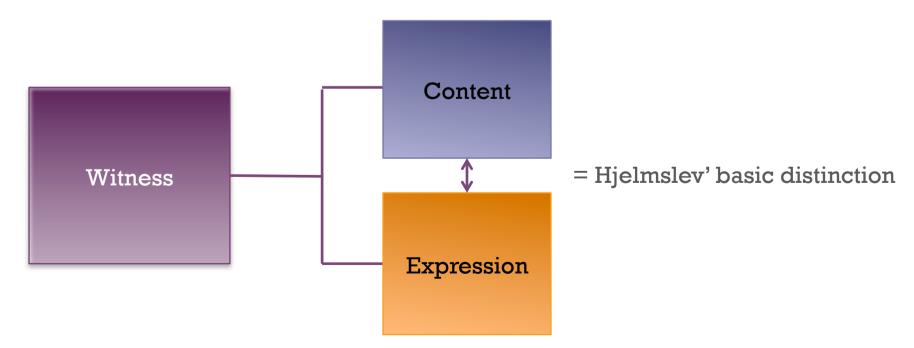
- Thomas Tanselle (1989), A Rationale of Textual Criticism
  - **Texts of documents**, namely the texts one can derive from physical documents
  - **Texts of works**, "namely the ideal texts that the author had intended to write but which have never been realized in practice" (see Pierazzo 2015)



- Thomas Tanselle (1989), A Rationale of Textual Criticism
  - Texts of documents, namely the texts one can derive from physical documents
  - Texts of works, "namely the ideal texts that the author had intended to write but which have never been realized in practice" (see Pierazzo 2015)

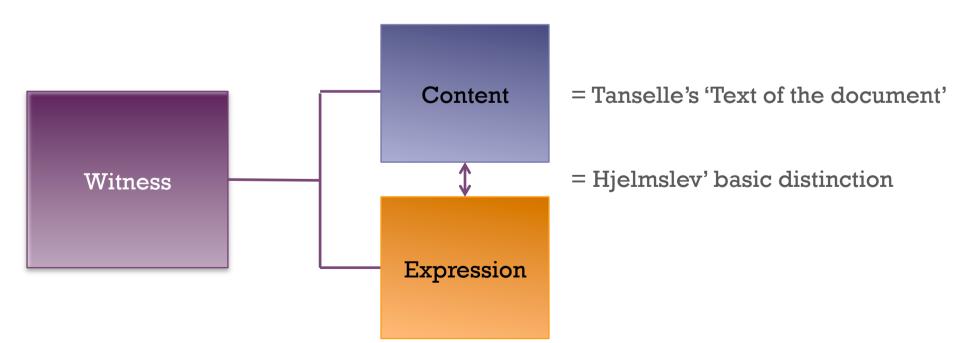


- Thomas Tanselle (1989), A Rationale of Textual Criticism
  - Texts of documents, namely the texts one can derive from physical documents
  - **Texts of works**, "namely the ideal texts that the author had intended to write but which have never been realized in practice" (see Pierazzo 2015)





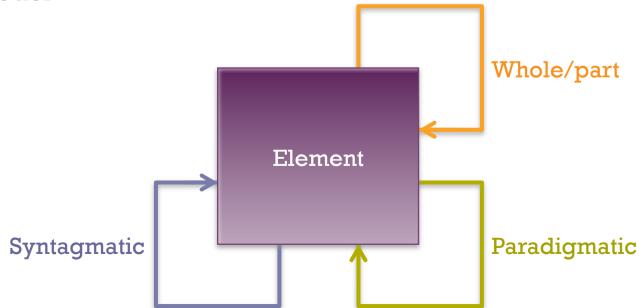
- Thomas Tanselle (1989), A Rationale of Textual Criticism
  - **Texts of documents**, namely the texts one can derive from physical documents
  - **Texts of works**, "namely the ideal texts that the author had intended to write but which have never been realized in practice" (see Pierazzo 2015)



# Thot Data Model (2.0)

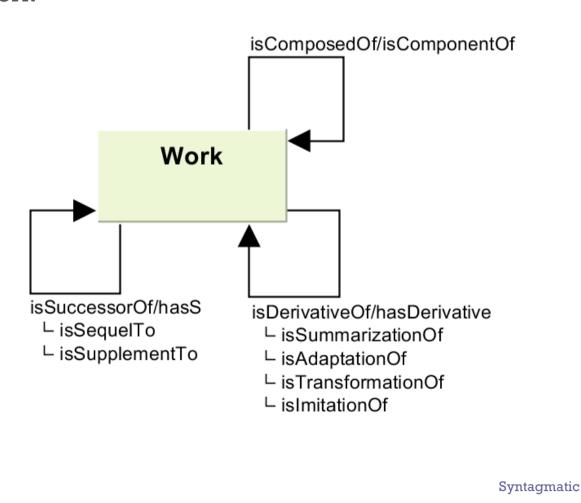
■ The Domain and Range of intertextual relationships become much clearer when this distinction is made (cf. Büchler's opposition between 'syntactic and semantic text reuses')

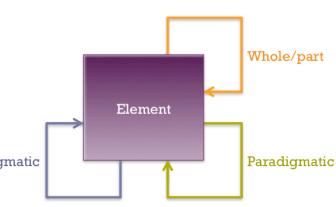
- The Domain and Range of intertextual relationships become much clearer when this distinction is made (cf. Büchler's opposition between 'syntactic and semantic text reuses')
- An analysis of the relationships suggested in the literature suggests that they can be organized according to three types for any element of the model



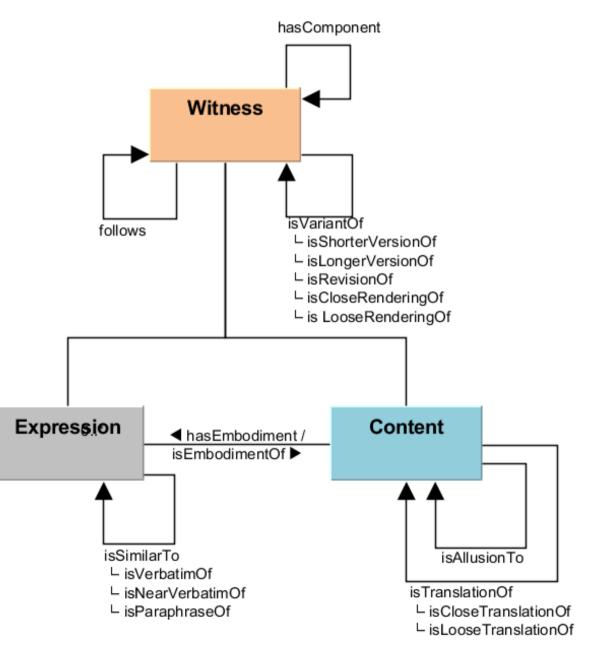
## Thot Data Model (2.0)

### ■ The Work





- The Work
- The *Witness* 
  - Expression
  - Content

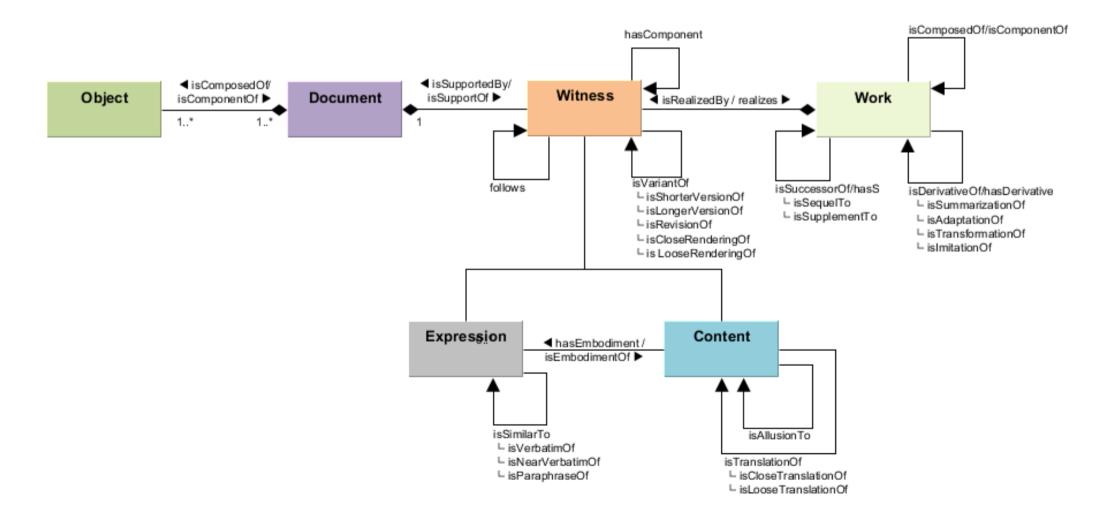


■ General model



## Thot Data Model (2.0)

■ General model



### Illustration 1. Multilingual decree

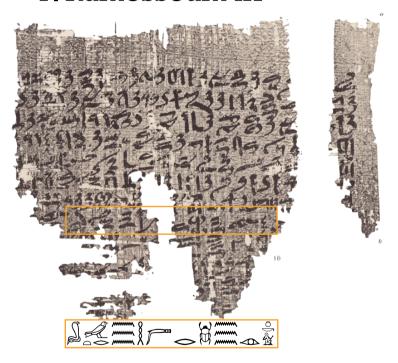
▼ isActualizedBv / Object Document Witness Work isActualizationOf ► 1 Stela Cairo CG 22186 Expression Content Decree of Canopus Full extent Decree of Canopus. Egyptian text by Ptolemy III Decree of Hieroglyphic text reconstructed Copy from ('Egyptien de Ptolemy III text ancient Imau tradition') Euvergetes -is Translation Of Demotic text Egyptian text (demotic) Greek text Greek text 2 Stela Louvre C 122 Decree of Egyptian text Canopus. ('Egyptien de Hieroglyphic text tradition') Copy from ancient Memphis \*is Translation Of \* Egyptian text (?)Demotic text (demotic) Greek text Lines 2-9 of Greek text canonical text (= version 1) Stela + Stela Cairo Fragment of the Port-Said CG 22187 Museum Canopus Decree Hieroglyphic text Hieroglyphic text inv. 493 Copy from Whole doc. + Fragment Bubastis from El-Kab

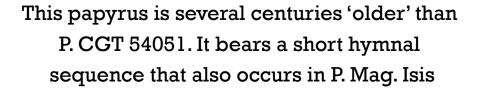
## Thot Data Model (2.0)

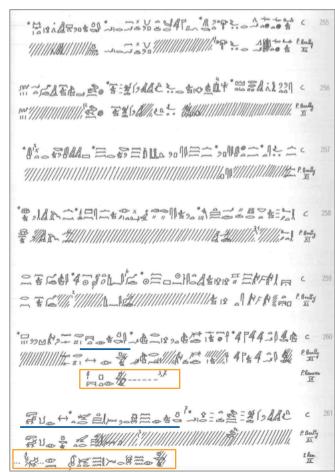
### Illustration 2. Distant text reuse

### P. Ramesseum IX





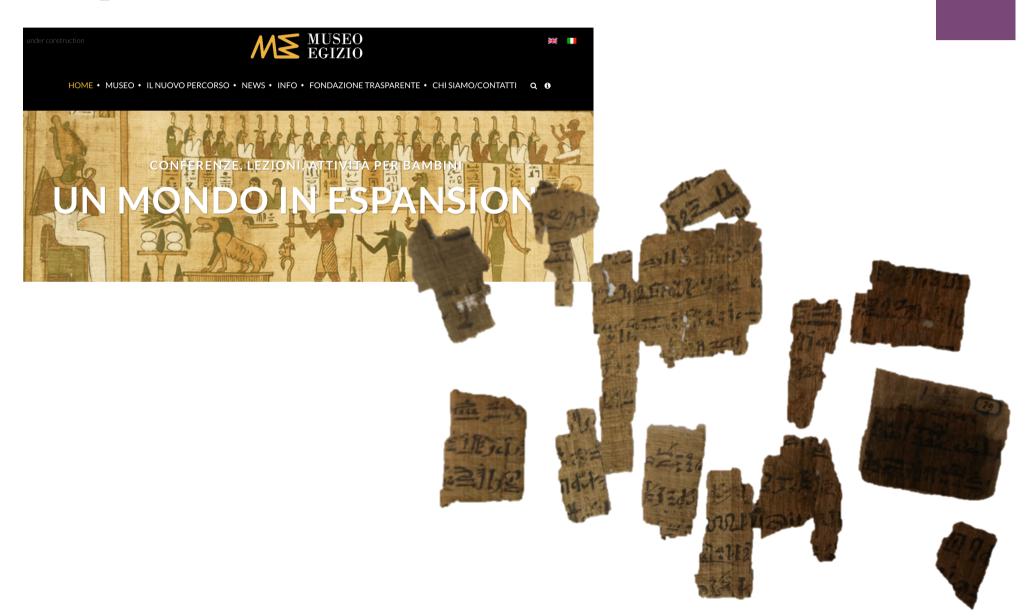




Roccati (2011: 141)



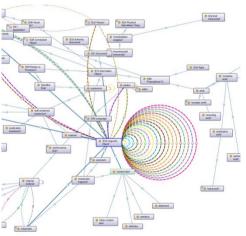
**Implementation** 





### Thanks!







Home Guidelines Activities Tools Member

Home

#### TEI-C News

TEI 2014 Members Meeting website

Pasted on: 2014-05-01

Final Call for Papers - 2014 TEI Conference

Posted on: 2014-04-18

Social Media Coordinator for the

TEI: position available Posted on: 2014-03-20

TEI Conference 2014: First Call for

Papers

Posted on: 2014-02-04

Issue 6 of the Journal of the TEI published: Selected Papers from the

2012 TEI Conference

Posted on: 2014-01-27 TEI P5 Guidelines version 2.6.0 is

released

Pasted on: 2014-01-23

#### Other News

Digital Scholarly Editions Initial Training Network (DiXIT)

Pested on: 2013-07-19

EpiDoc Workshop, London, April 22-25, 2013

Posted on: 2013-01-14

CFP: Issue 6 of the Journal of the Text Encoding Initiative

Posted on: 2012-10-31 Call for TAPAS test data

Posted on: 2012-09-26

Seminar, Taking TEI Further:

Transforming and Publishing TEI Data

Posted on: 2012-08-15

Older Benne

#### TEI:

The Te: digital f social s to pres

softwar The TE around

of resor

Want to come to