Annotation:
From Theory to Practice

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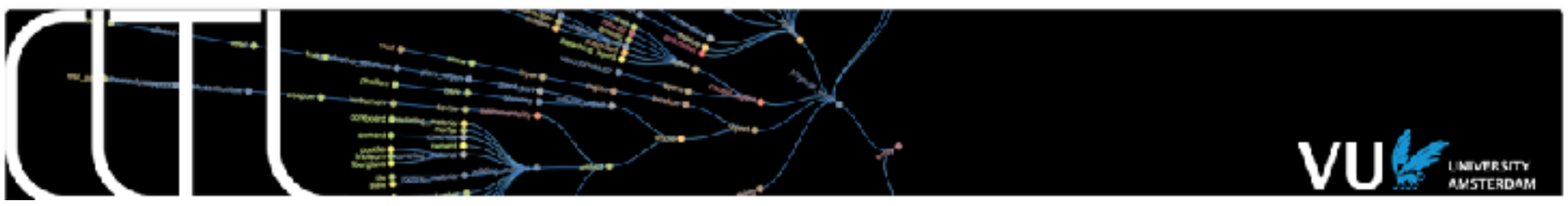


The process of *annotation*

Annotation: "*a note by way of explanation or comment added to a text or diagram*" [OED]

Annotation: a process of enrichment of information contained in data (texts, images, sounds, etc) by making explicit what (i.e. information) is already present (i.e. implicit)

The annotation can take place at different levels with different degree of granularities of the *encoded* information

The process of *annotation*

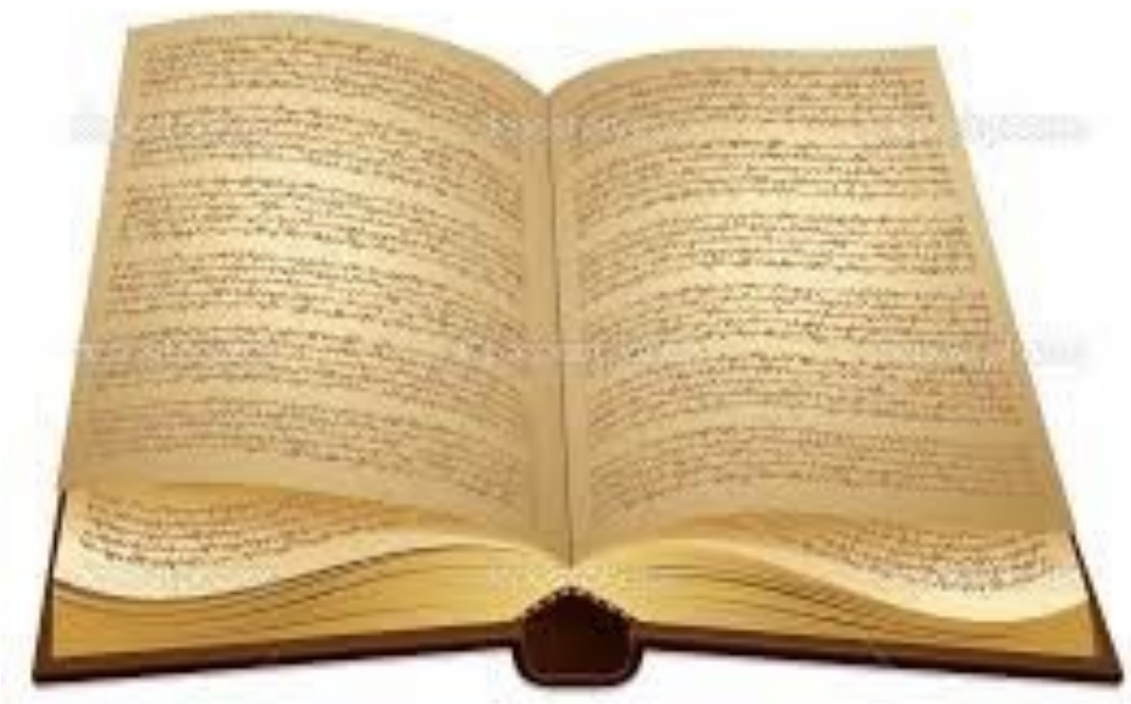
Title:	Garden of Earthly Delights, central panel of the triptych
Painted by:	Hieronymous Bosch
Location:	Museo Del Prado, Madrid, Spain
Dimensions:	76.77 inch wide x 86.61 inch high
Orientation:	Portrait

Description of the content

Description of the symbols

….

The process of *annotation*



- The linguistic perspective
- The domain expert perspective
- The “crowd” perspective

The process of *annotation*

Coding the content of a document (picture, text, sounds etc.) depends on the purpose of the study

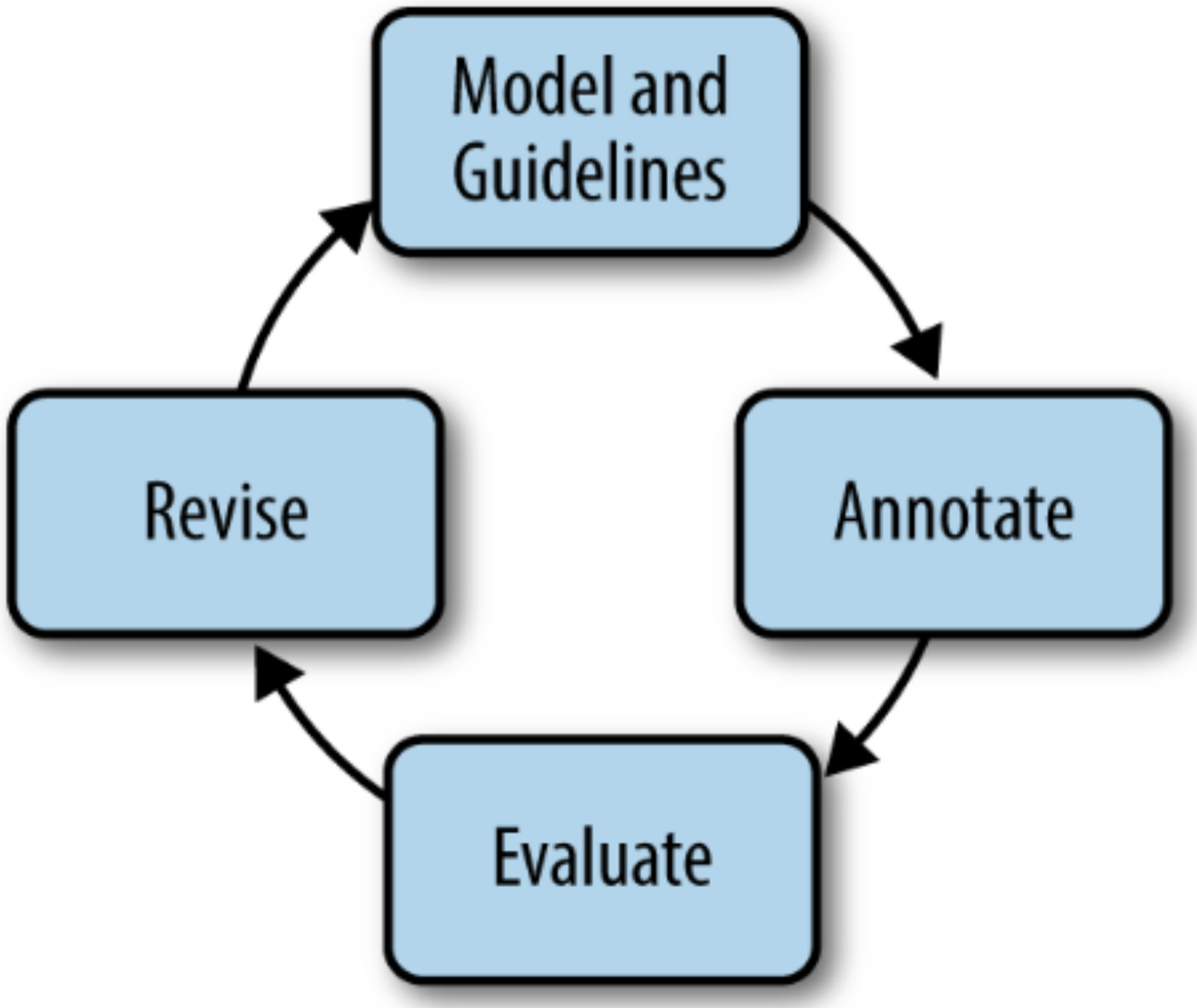
Annotation can be applied to any type of document to "comment" or "explain" any type of information

data: the information, the target of the annotation

metadata: the design and specification of data structures; "data about the ***containers*** of data"

The process of *annotation*

The full annotation process can be represented by the MAMA cycle (Pustejovsky and Stubbs, 2012)



Set up

- TASK: connect the events in the document(s) by means of different relationships:
  - temporal relation: timelines
  - causal relation: causelines
  - plot link relations: storylines

Temporal Relation

- We are using only a reduced set of relation values, namely:
  - BEFORE
  - AFTER
  - OVERLAP
  - INCLUDES
  - IS_INCLUDED

Causal Relation

- A cause-effect relation between a pair of event X-Y
- adopt a linguistic approach: annotated a causal relation only in presence of explicit linguistic evidence

Plot Relation

- A relation **logically connecting** a pair of events, X-Y, one with respect to the other
  - key question 1: *is event Y a rising action or a falling action of the happening of event X?*
  - key question 2: *why did event X happen? (Because of event Y)*