

Rapid Prototyping for the Digital Humanities

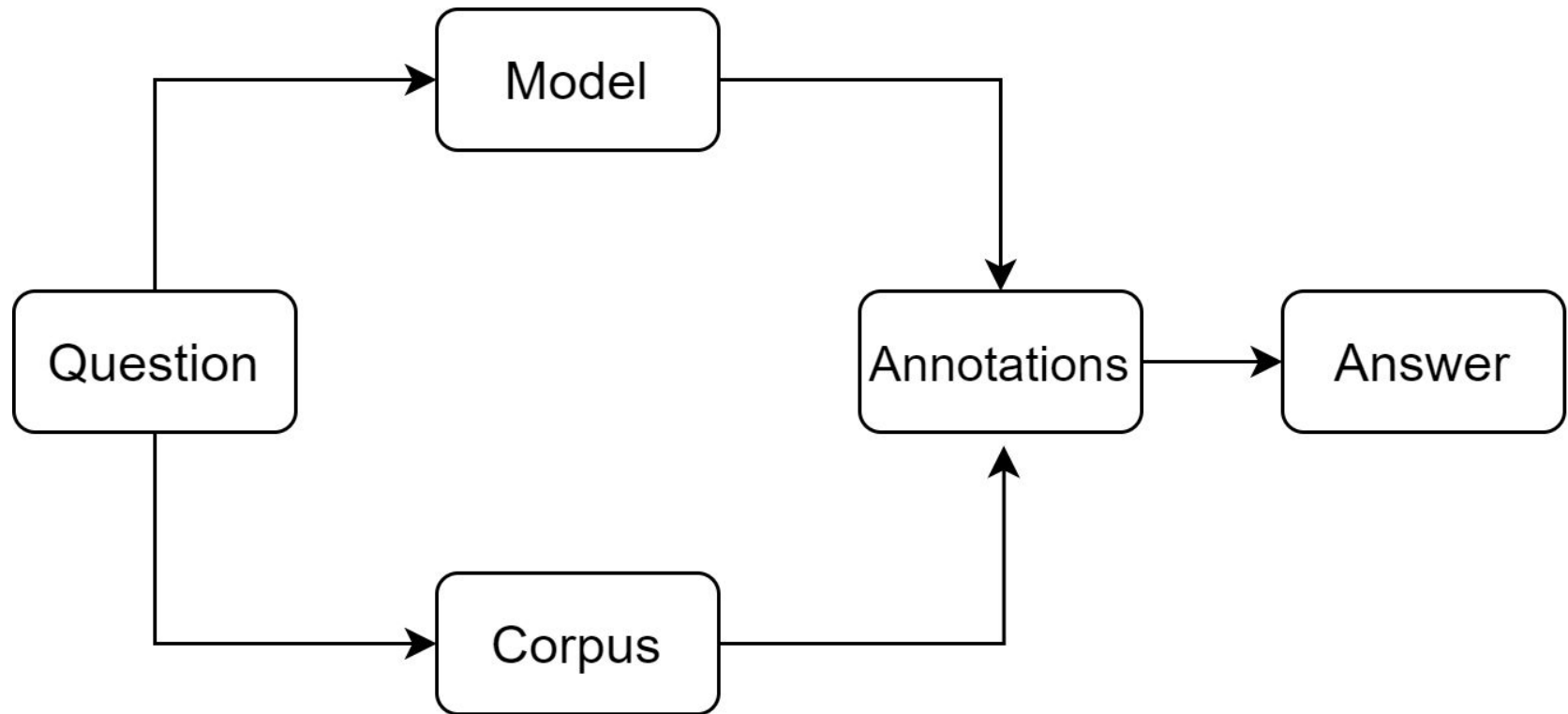
**Defence of Master's Thesis
Hans Lienhop**

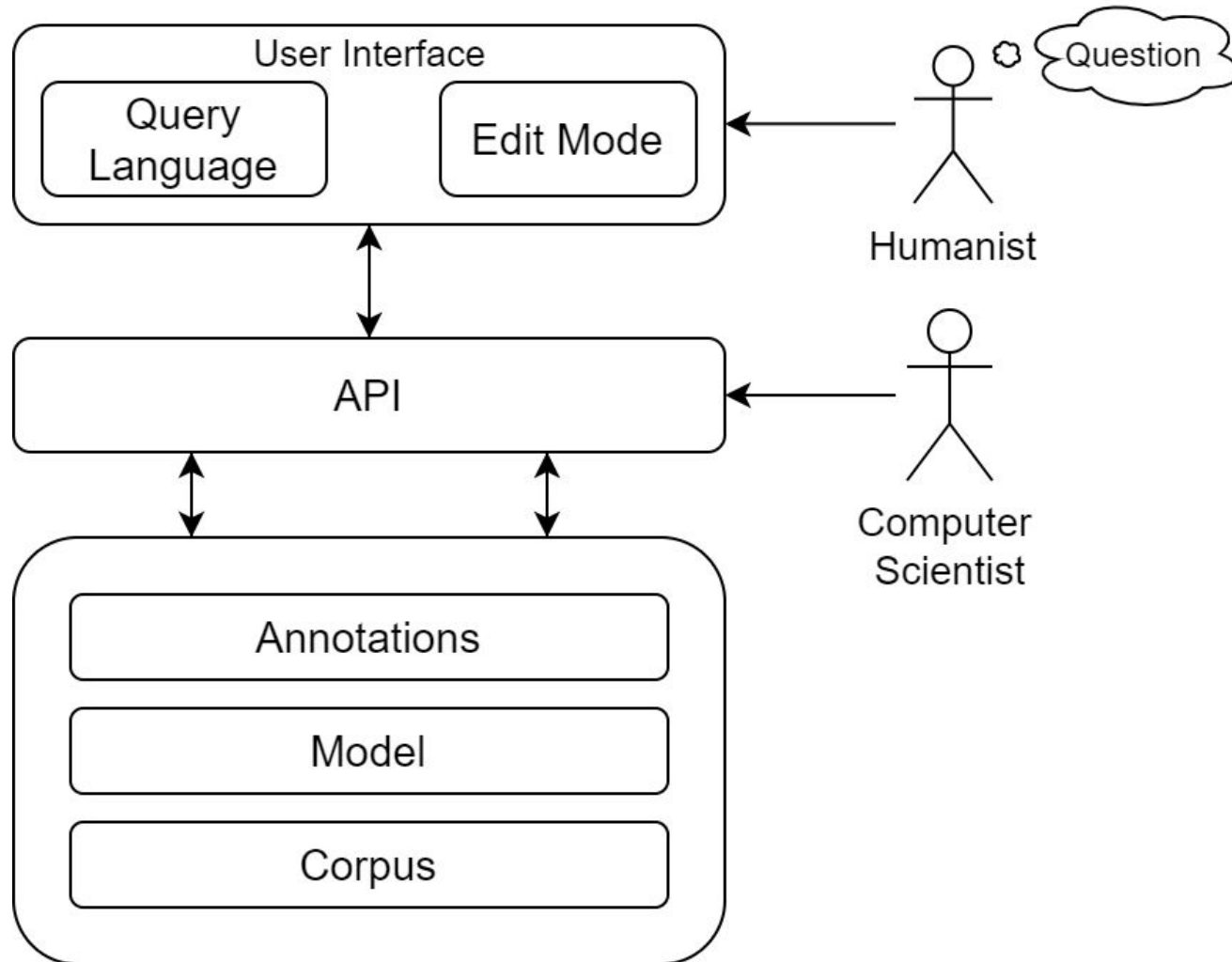
Digital Humanities?

- Research in the humanities with digital methods

Rapid Prototyping?

- Quickly creating incomplete versions of software
- Allows for fast feedback regarding fulfillment of requirements





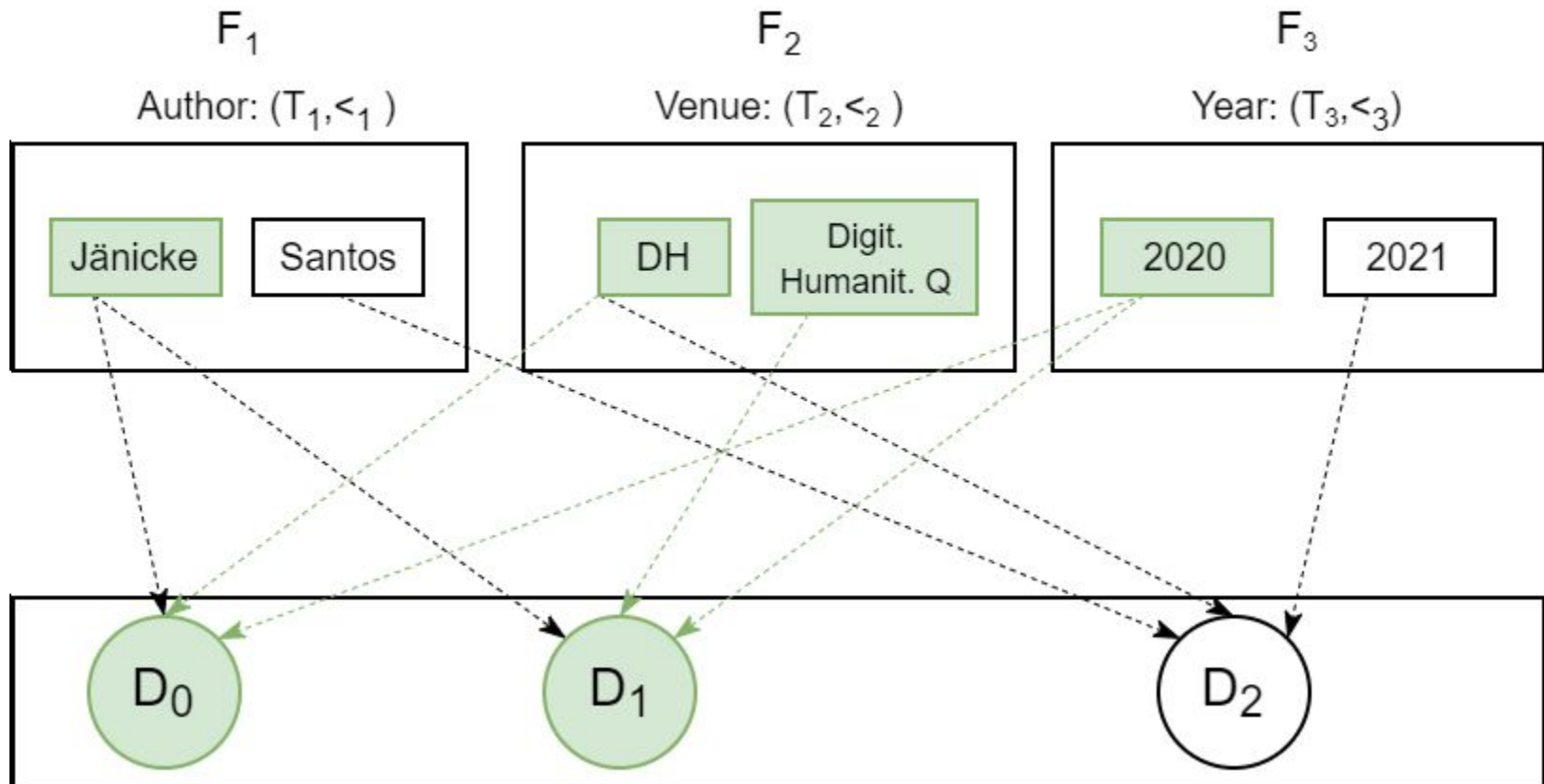
Faceted Search System

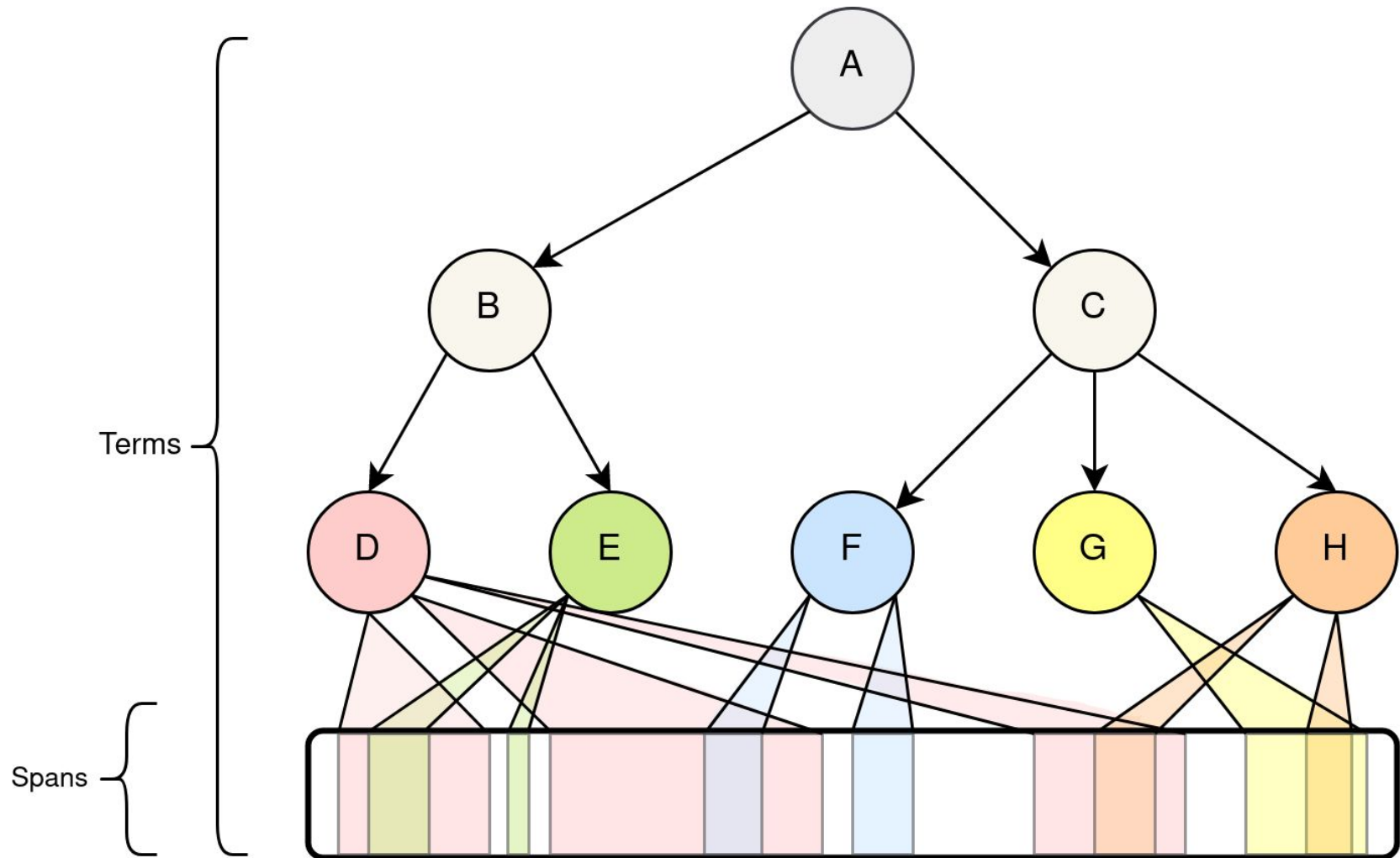
$$S = ((T, \leq), O, I, Q)$$

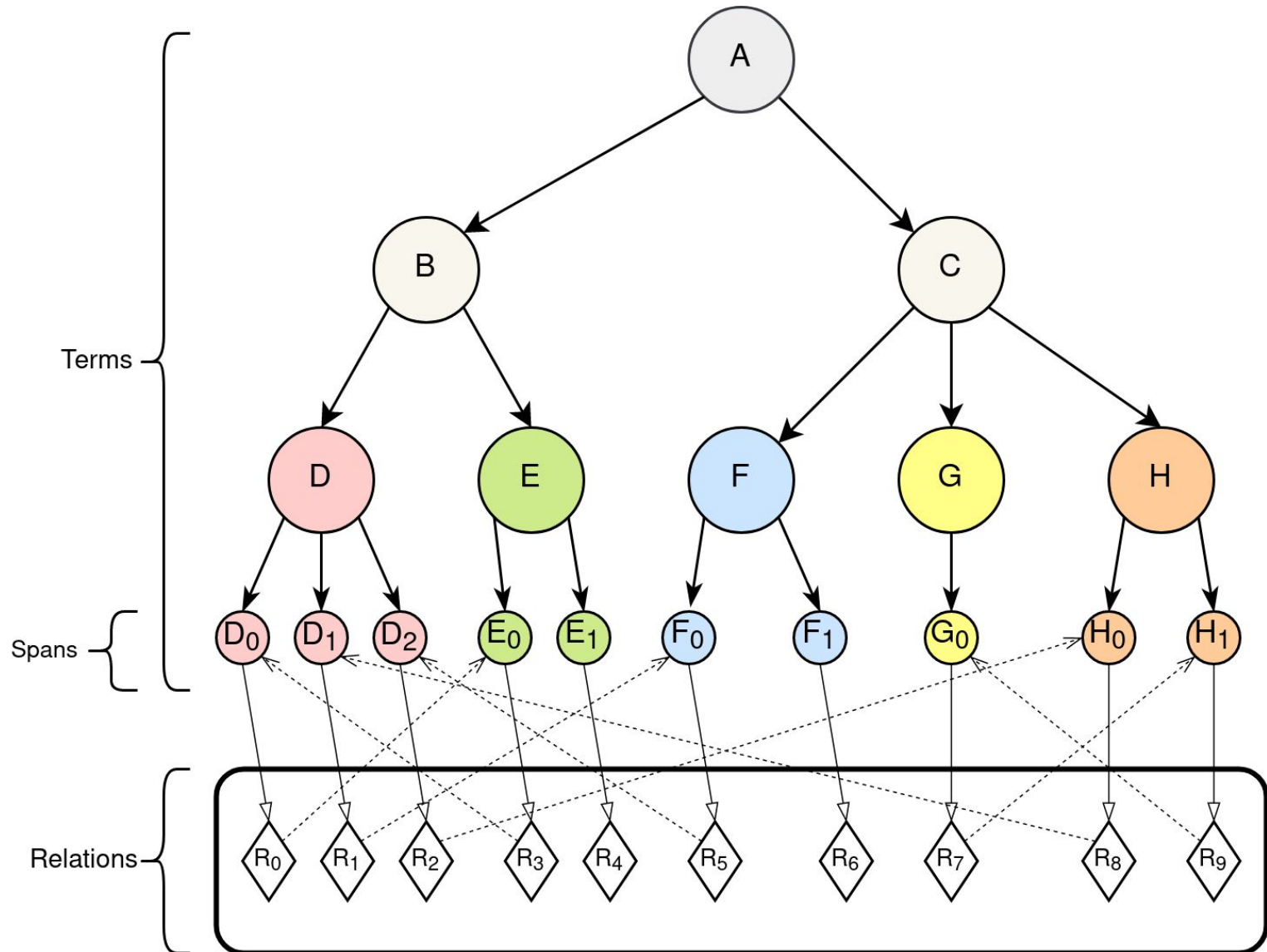
- T : A terminology consisting of abstract terms
- \leq : A reflexive and transitive relation over T , subsumption
- O : A set of objects indexed by the taxonomy
- I : A function $I : T \rightarrow 2^O$, interpretation
- Q : The set of queries over T using basic boolean algebra

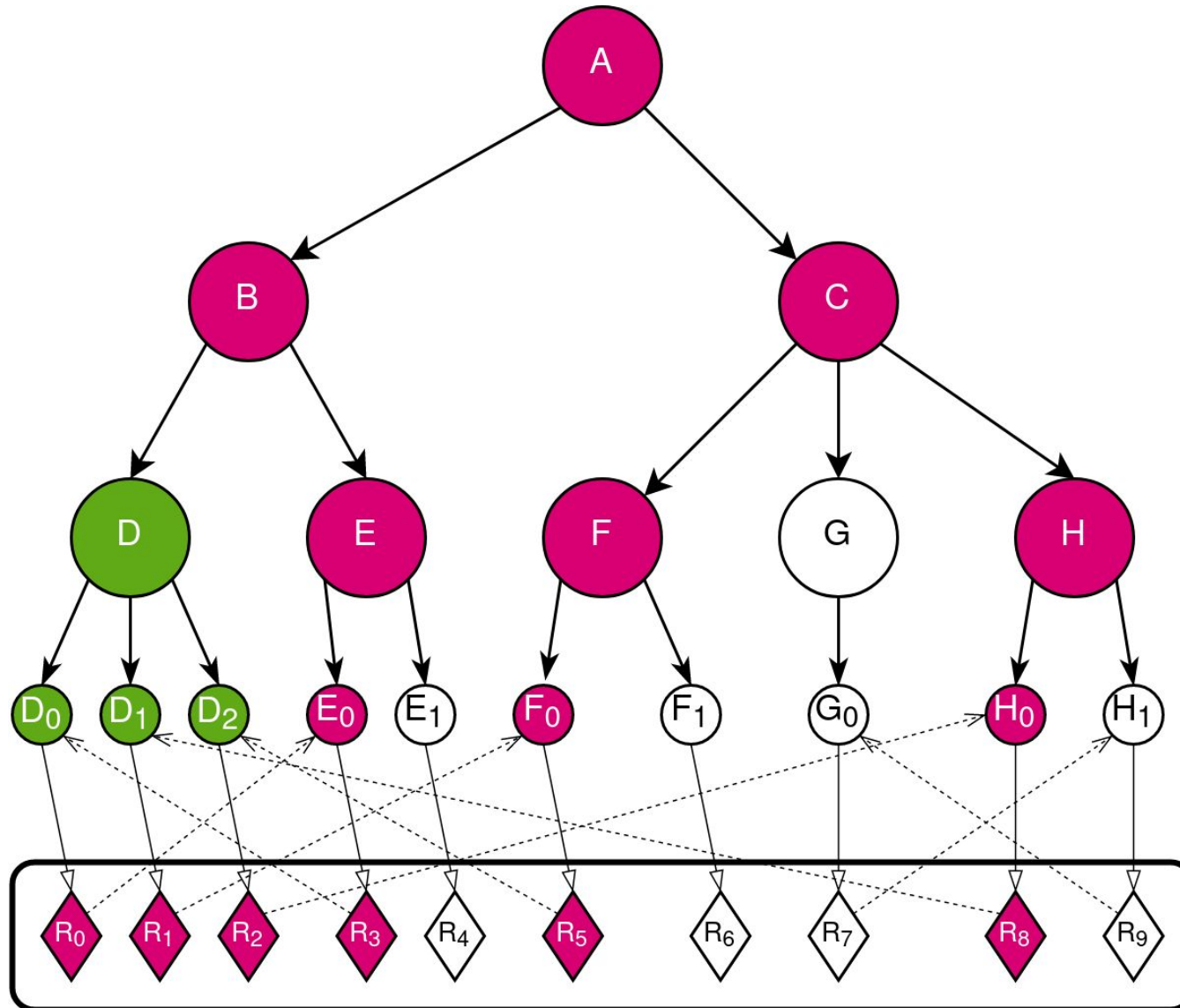
$D(o)$ returns for each object the set of terms it is described by.

$$\rightarrow I_D(t) = \{o \in O | t \in D(o)\}$$









Query Language

A INTERSECTING (B AND C)

A INTERSECTING (B AND C) OR
SIMILAR TO (D NOT E)

A SIMILAR TO (B) AND INTERSECTING
(C INTERSECTING (D OR E))

Query 0:

Find

/ (9)

Intersecting

/

Prefix './' to only search in the current facet, './.' to search only

Search



Total 9 results

☐ Case Sensitive

Active Search:



W

Sätze (492978/492978)

↓

Paragraphen (140390/140390)

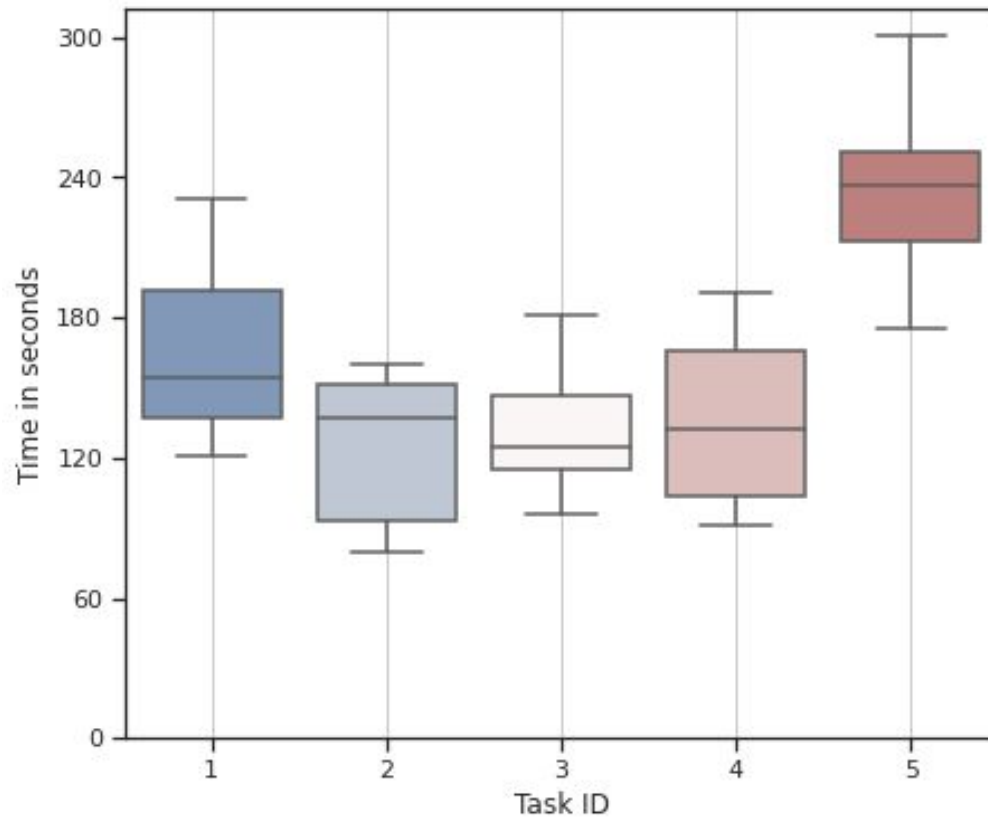
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Dokumente (5110/5110)

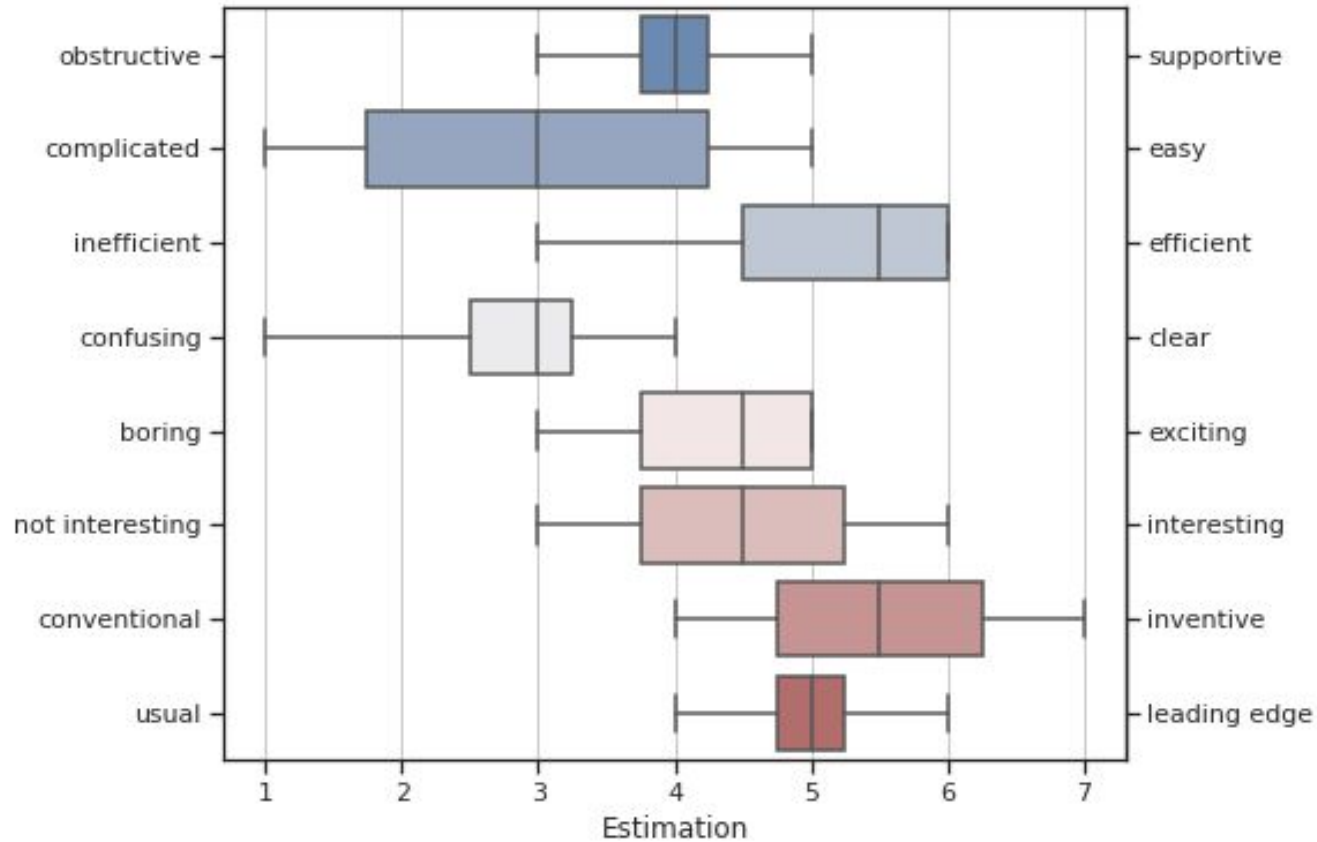
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User Study

- 10 participants
- 4 explorative tasks, one annotating
- Evaluating:
 - Time
 - Estimated Difficulty
 - User Experience



Task	avg. Time	avg difficulty
1	167	3.3
2	124	1.7
3	133	2.3
4	137	2.5
5	235	4.3



Thank you for your attention!