

Computational Logics, Semantics and Pragmatics: Semantic Interpretation

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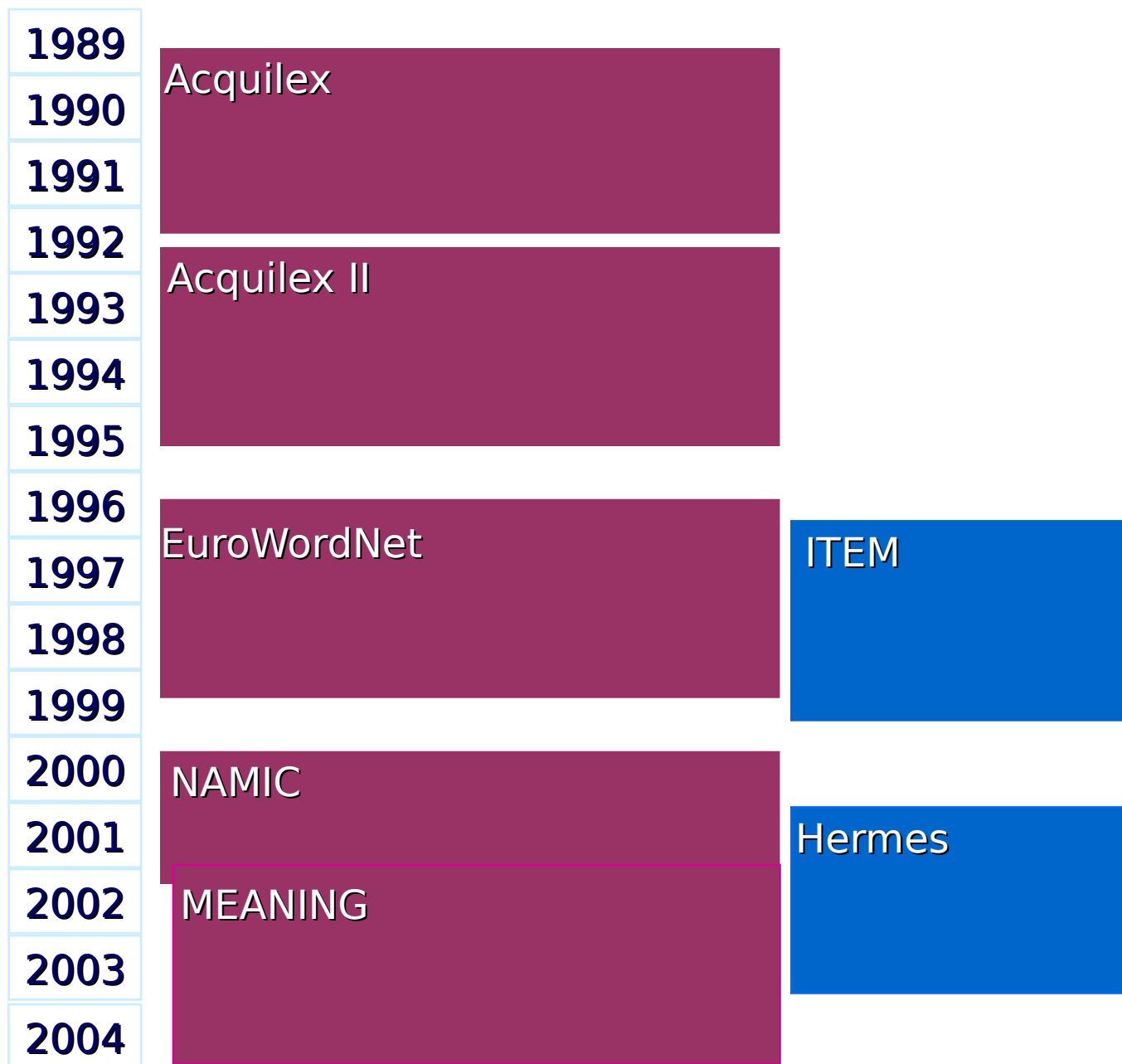


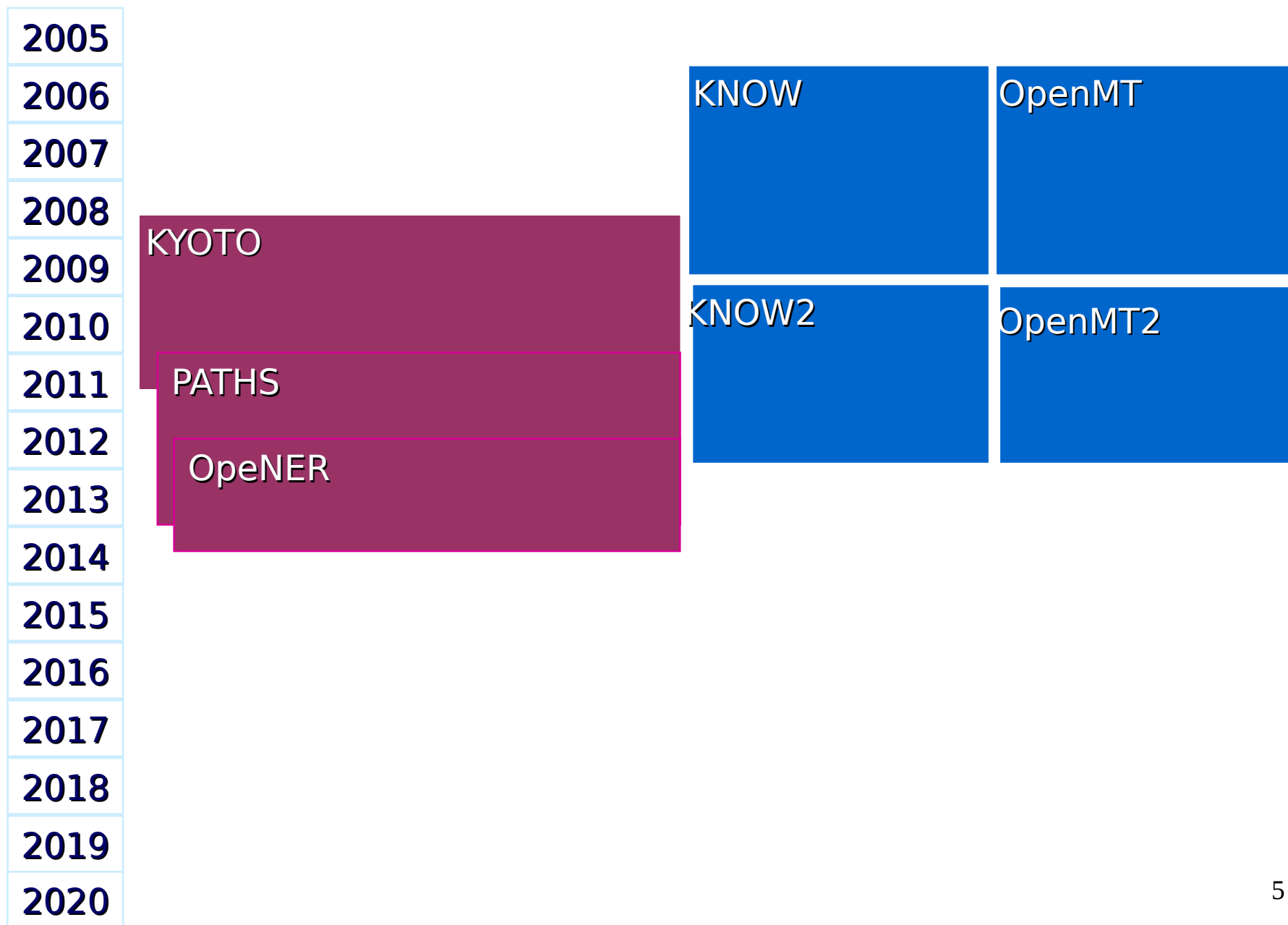
Plan

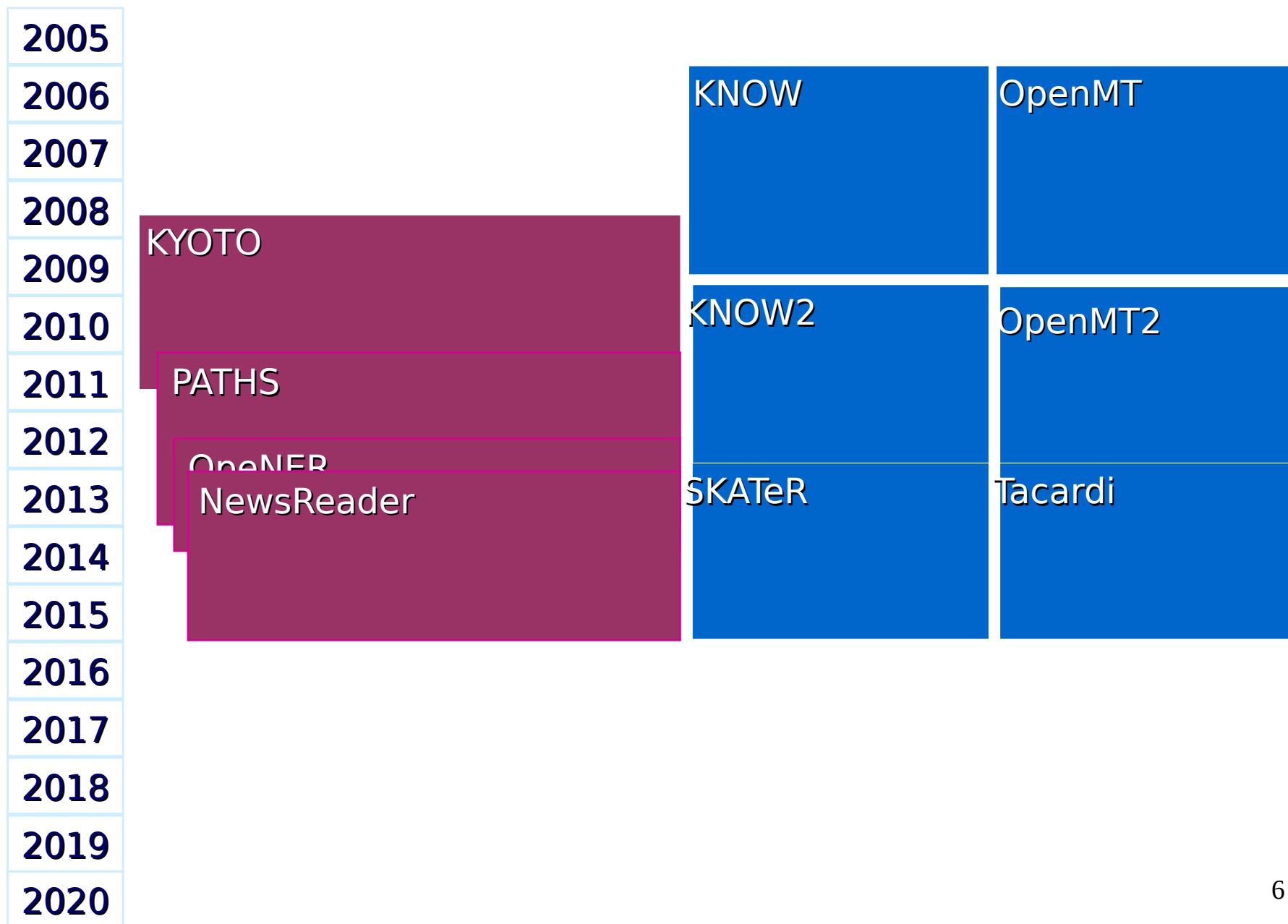
- **24/02** (German) :
 - Deep vs. Shallow Semantic Interpretation
 - Semantic Interpretation in action
- **26/02** (Rodrigo) :
 - Semantic Interpretation tasks: NERC + NED + Coref ...
- **03/03** (German) :
 - Processing strategies for semantic analysis I
- **05/03** (German+Itziar+Egoitz) :
 - Processing strategies for semantic analysis II
 - Implicit SRL
- **10/03** (Rodrigo) :
 - Hands-on with NLP tools
- **12/03** (Students+Rodrigo+German)
 - Hackathon
- **17/03** (Students+Rodrigo+German)
 - Hackathon presentations

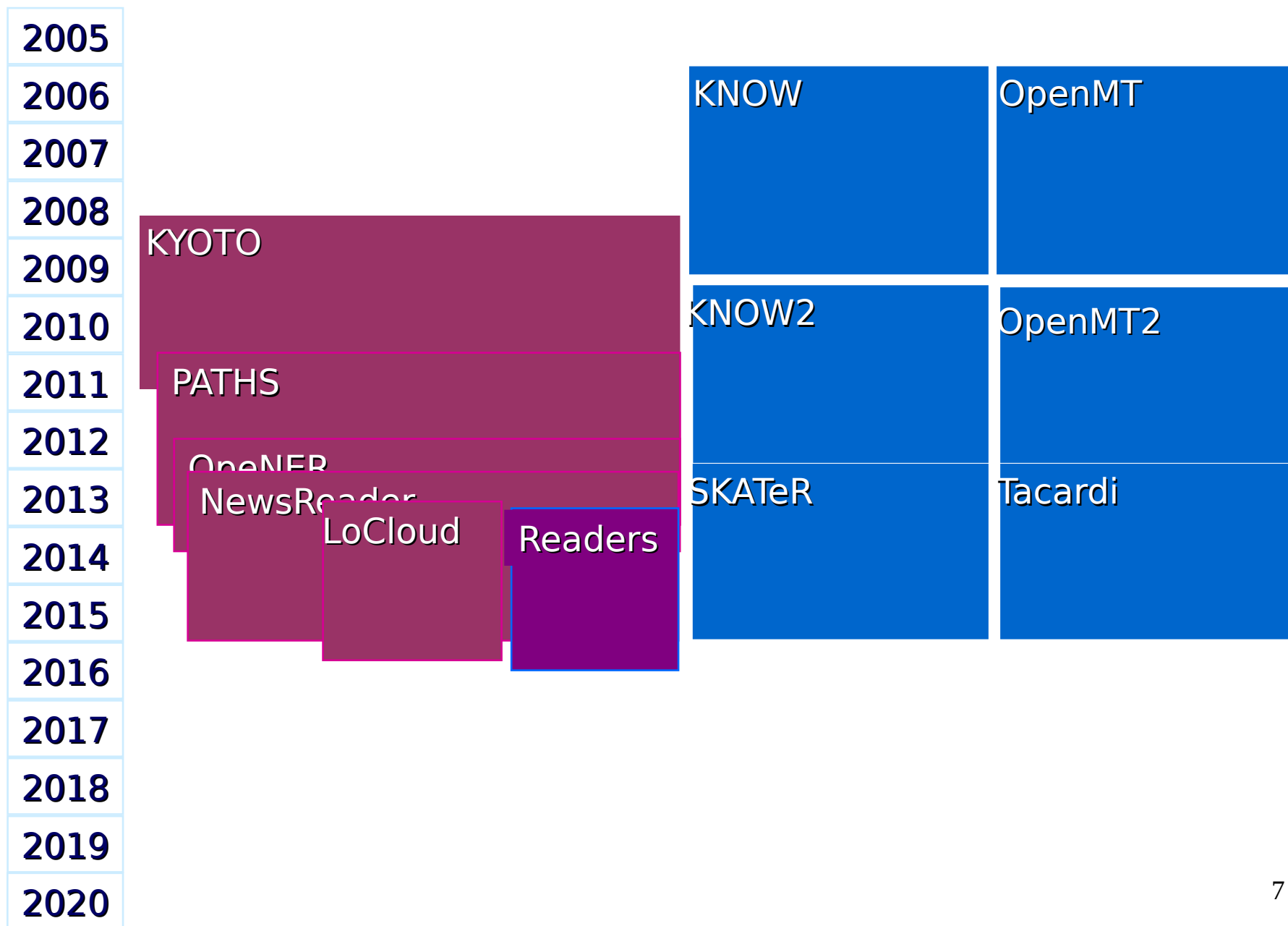
Evaluation

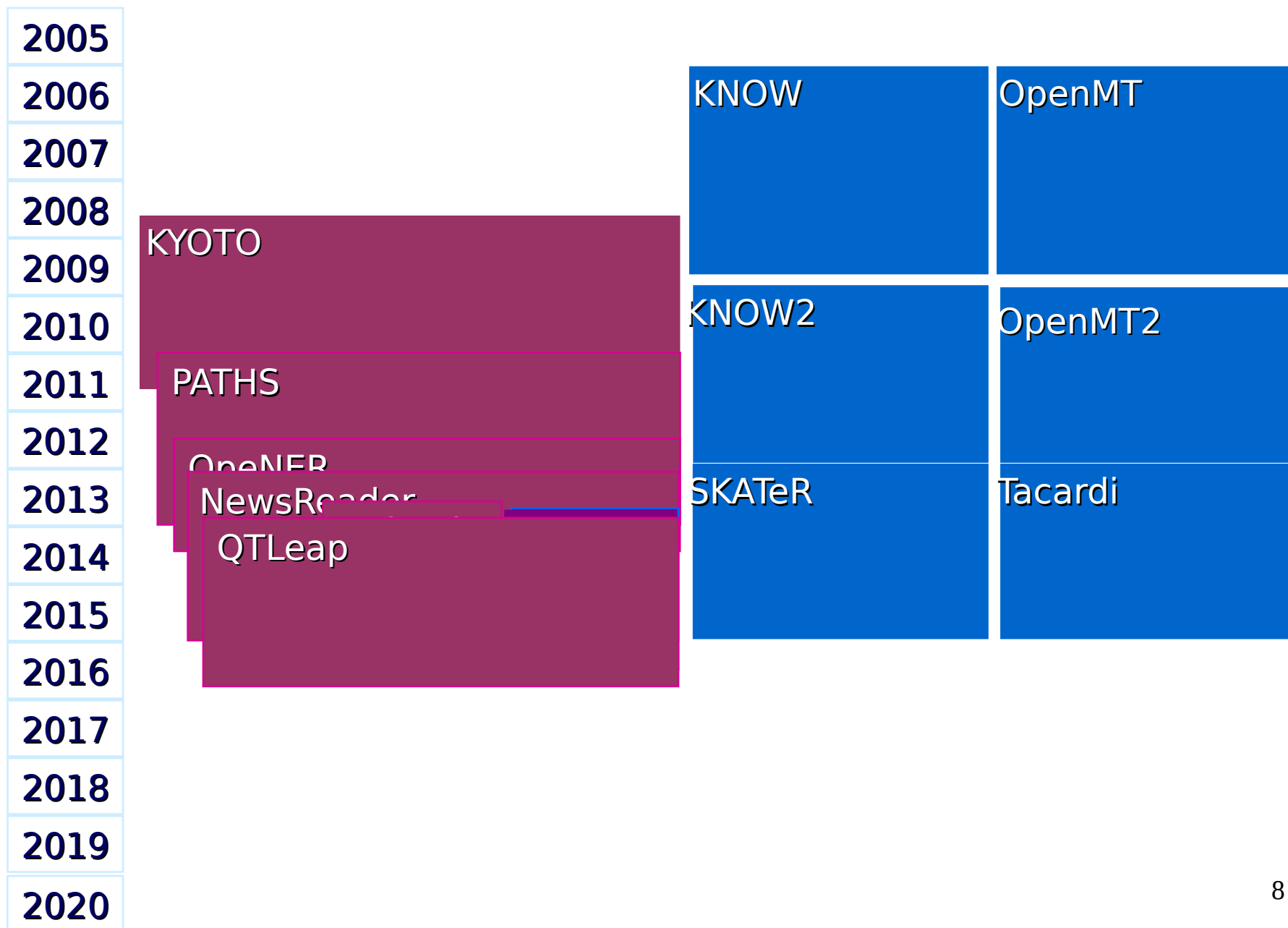
- Hackathon (on 12/03):
 - Student/teacher topic
 - 2/3 students per team
 - 5 minutes project plan presentation ~ 3 slides
- Short presentation + Demo (on 17/03):
 - 15 minutes sharp, ~ 10 slides
- Written report + Final demo (on 17/04):
 - Format:
 - <http://www.acl2013.org/site/call.html>
 - Example:
 - EuroLoveMap
 - <http://adimen.si.ehu.es/~rigau/publications/opener14-aemrs.pdf>

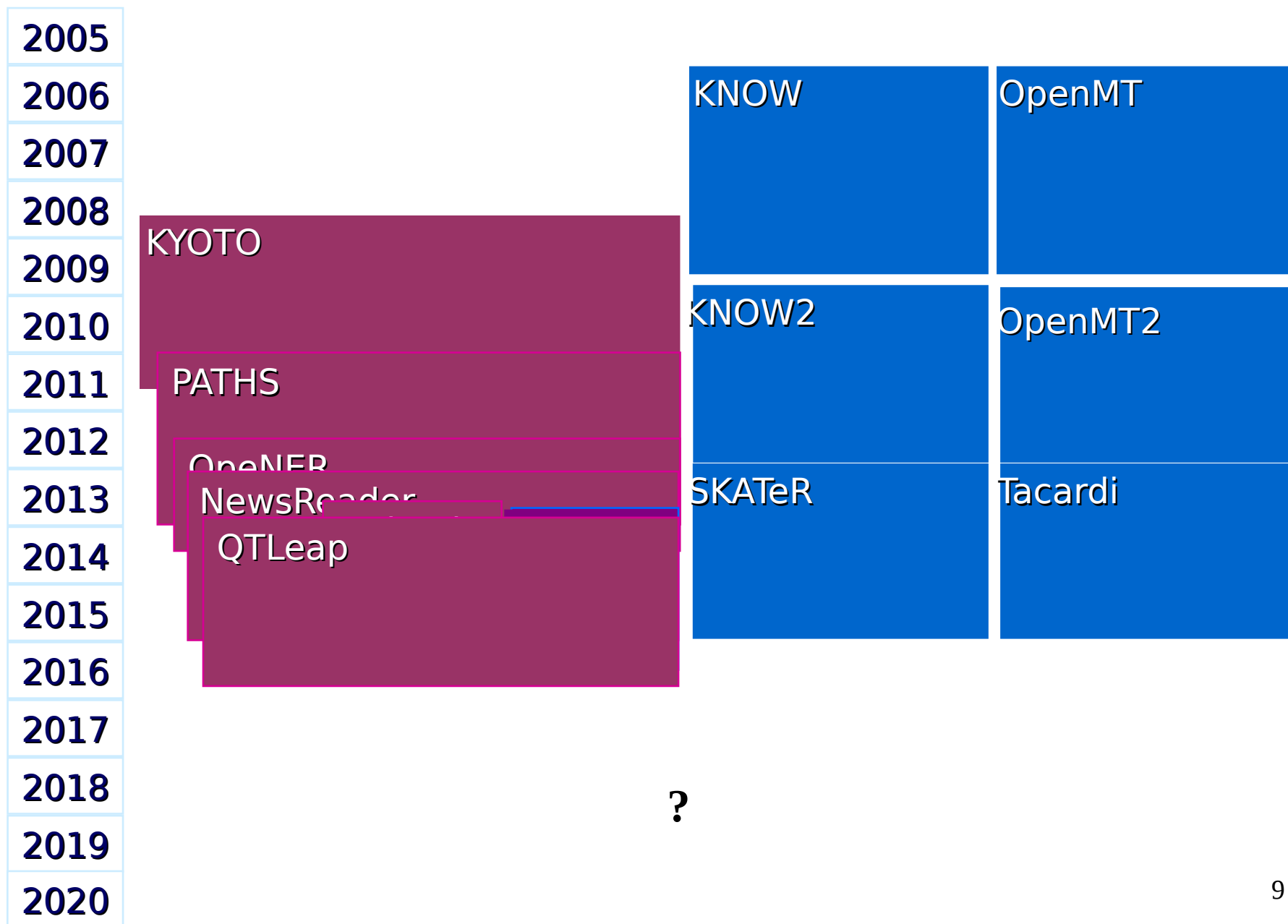












Motivation

Sbdm ip im vdu yonreckblms.
Abf ip im vdu bhhigu.
Sbdm yigaus ly vdu hbbvfnoo.
Abf zumv vb vdu aivgdum.
Mduku ip vdu hbbvfnoo? A:yonreckblms
Mduku znp Abf fuhbku vdu aivgdum? A:bhhigu

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Motivation

John is in the playground.

Bob is in the office.

John picked up the football.

Bob went to the kitchen.

Where is the football? A:playground

Where was Bob before the kitchen? A:office

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Motivation

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Motivation

พรรค

Motivation

party

Motivation

party

- Which sense of “party”?
- How many senses have “party”?
- How a computer should represent these senses?

Motivation

- For example:
 - The lexical-semantic knowledge allows us to better **characterize** the different meanings of the words
 - *In 1992 Perot tried to organize a third **party** at the national level*
 - *She joined the **party** after dinner*
 - *They organized a **party** to search for food*
 - *He planned a **party** to celebrate Bastille Day*
 - *The **party** of the first part*

Motivation

- This better characterization may consist of:
- Add domain tags to each word sense
 - party¹_n: politics
 - party⁴_n: free-time
- Distinguish the semantic relations that apply to each concept
 - party¹_n: member of: political_system¹_n
 - party⁴_n: hyponym: wedding¹_n
- Ontologies?

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