

Encoding prior knowledge in text processing

- How to encode prior knowledge for text processing has two components (obvious alert!):
 - Figuring out what that prior knowledge is
 - Figuring out how to encode it
- These are dependent on each other.
 - Parse trees lead to Pitman Yor processes (Wallach et al.)
 - Groupings lead to DP clustering (Vlachos et al.)
- I'd like to brainstorm other sources of prior knowledge.

Examples of other sources of prior knowledge

- Some ideas for sources of prior knowledge
 - Sentence level:
Mathematical Structures of Language (Harris, 1967)
 - Document level:
Style: Toward Clarity and Grace (Williams, 1995)
 - Corpus level:
The Structure of Scientific Revolutions (Kuhn, 1962)
- What's different about these levels of prior knowledge?
- How might we encode these?
- In which problems can knowledge at these different levels help?