

Papers

Hermer-Vazquez, L., Spelke, E., Katsnelson, A.S. "Sources of flexibility in human cognition: dual-task studies of space and language", *Cognitive Psychology*, 1999, 3-36.

WRT 1.5 hours

Wilson, M.A., McNaughton, B.L. "Reactivation of Hippocampal Ensemble Memories During Sleep", *Science*, Jul 1994, 676-679.

WRT 20 minutes

Assignment

The piece de resistance is the Hermer-Vazquez paper. You can skim the Wilson paper.

Assignment

You have decided you are so thrilled by 6.xxx, you will write a textbook covering the material. You arrange an appointment with Professor Winston, during which you go into such matters as dealing with publishers, handling reviewers, structuring royalty rates, and handling international sales. Winston mutters something about maybe talking about the same sort of stuff in class at some point.

Then, as you turn to the writing of the book itself and Winston explains that it is extremely important to do a good job on the chapter openings. Unfortunately, your time is up just when he is about to explain the standard components in his chapter-opening template.

On a total of one side of one sheet of paper, using 10 pt type or larger, with standard interline spacing and margins, respond to all the following:

- Reverse engineer the sample chapter openings from the books *Artificial Intelligence* and *On To Java* and exhibit the slots that seem to constitute Winston's chapter-opening frame, where "slot" and "frame" are used in the 6.034 sense, whatever that means. Add any others that seem especially important to you.
- Write an introduction to a chapter on Spelke's work, as reported in the Hermer-Vazquez–Spelke–Katsnelson paper, demonstrating use of whatever frame slots seem appropriate for the material.
- Write an introduction to a chapter on Wilson's work, as reported in the Wilson–McNaughton paper, demonstrating use of whatever frame slots seem appropriate for the material.