Final Assignment

1. We discussed how modal logic could be used to describe other domains. How might it be extended to account for other modals? For example, can you think of a way to describe a three-modal system with can (possibility), may (permission), and must? Make sure to provide an explicit formalism and relate your answer to “possible worlds”.

2. Explain what is “good” about degree-2 learnability. Explain what is “bad” about it.

3. Explain what distinguishes mereology from set theory.

4. Find some very simple linguistic data and model it probabilistically with an HMM or with a PCFG. (Keep this small: an HMM with no more than five states or a PCFG with no more than ten rules.)

Things to keep in mind:

1. This is due in my mailbox in Douglass by noon on Dec. 13!

2. Type it.

3. This can be no more than four double-spaced pages.