1. (a) Pick one of the following pieces of software to use, to extend from the topics discussed in class:
   - SenseLearner or GWSD: https://web.eecs.umich.edu/~mihalcea/downloads.html
   - word2vec: https://code.google.com/p/word2vec/ (note that other implementations are available online, e.g., for Python)
   - SENNA: http://ml.nec-labs.com/senna/
   - ... or if you’d like to petition to use some other software related to the last parts of the course, ask me.

   (b) Explain, in approximately half-a-page, what the software does, i.e., what the problem is that it’s trying to solve, and how it goes about solving it. What does it do that other tools don’t (or didn’t) do? You will likely have to read an associated publication or two.

   (c) Use the tool in some way that points to a greater purpose. In other words: get it working with data that you actually care about and for a downstream purpose that interests you. In half a page or so, report on how the tool is to be used for that purpose. Be sure to discuss how to evaluate the effectiveness of the tool for your purpose.

   (d) In a page or so, give a brief “consumer report” on the software. What options does it have? What does it lack? What does it have that you want, but isn’t immediately obvious? What is the difficulty of use, in general and for your purpose? What could be improved, either from a scientific or a more pragmatic perspective?

2. Mini-Project: Assignment 11 is going to be a mini-project of your own choosing (~5-page/person write-up due December 16). For now, what I want you to do is the following:

   (a) Decide on whether you’re working on your own or in a group, and pick a topic. This should tie in to the class in some way; some examples might include:
      - Implement and use a technique described in class (e.g., probabilistic chart parsing) for some task you are interested in
      - Use the tools we have discussed for some purpose of your own interest (e.g., parsing for sentiment analysis)
      - Develop or improve upon a technique described in class assignments (e.g., sentiment analysis)
      - Continue one of your earlier projects, expanding it out into something bigger and better.

   I’ll expect you to provide some motivation for what you’re doing, but the bulk of the mini-project will be implementation-focused.

   (b) Think about where you want this topic to go after this class.

   Part of your project will involve writing up a small prospectus, i.e., outlining what the overall research agenda is going to be. This semester, you will only be laying the groundwork with what you implement.

   (c) Taking together parts (a) & (b), write up a paragraph on what the topic is and why you/your group want to do it.