Computer Science 135 — 2017 Final Project Agreement

Proposal due Wednesday, April 12, in class; changes due Wednesday, April 19.  
Project due May 12 at 5pm.

To prepare for your final project, I would like you to spend some time thinking about and planning what you would like to do. The last three weeks of the course will be dedicated to the construction of a project that demonstrates, in a substantial way, what you have learned during this semester. Projects might include:

- The progressive solution of a collection of problems of one type. For example, Project Euler (see projecteuler.net) considers problems of number theory. Here, perhaps you solve a predetermined number of problems and develop a module of functions and data structures. Or, perhaps, you develop a collection of programs and databases that solve a series of word puzzles (see www.npr.org/series/4473090/sunday-puzzle). Or you develop a system for generating or solving a particular type of logic puzzle (see www.nikoli.co.jp/en/puzzles/).

- The thoughtful development of a utility that helps one explore, in new ways, questions about a collection or database. For example, you might construct a utility that evaluates Supreme Court decisions based on the academic impact rating, H-index (see wikipedia.org's H-index). Or, perhaps you build a browser for the New York Public Library's public domain digital collection (see on.nypl.org/10MpBc2). The P:NK project encourages this type of exploration of the WCMA.

- The application of a new statistic or metric to a new domain. For example, you might apply and tune "Elo" ratings to a new sport (see wikipedia.org's Elo_rating_system).

Below, please discuss your plans for a final project. Submitting this form is an indication that, if the project is accepted, you will follow through with the proposed work. In other words, think about what you write here, carefully.
1. How do you expect you'll want to use programming beyond this class?  
   Alternately: What lab have you found most interesting?

2. What Python skills would you like spend more time developing?
3. *Briefly*, what do you want to do for your final project?

4. For the purposes of focusing my evaluation: What aspects of this project will address those skills discussed in Question 2?