

Final Project Details

CIS 192

March 12, 2018

1 Overview

The final project is your chance to explore something you're interested in using Python. We want to see what you've learned here and we're excited to see the projects you develop. In the past, we've had interesting websites, games, and ML projects.

2 Requirements

2.1 Project Rules

Your project should take each group member roughly 10 hours of work. Successful projects can be completed in less time with good effort, and ambitious students may find themselves working slightly longer.

You are welcome to work alone or with a partner, but no groups any larger than two people will be permitted. Pairs are strongly encouraged, and there is a form on Piazza up dedicated to helping you find a teammate.

2.2 Deadlines

- Your proposal is due Wednesday, March 18th at **11:59 AM**. Your proposal should be between 100-400 words and will include the names of everyone in the group. The proposal will be a rough outline of your intended project and should make note of how you attempt to meet the rest of the requirements listed below. Submit this proposal by email and note that **all proposals must be approved by Harry to be valid project choices**.
- Final code is due April 25 at 11:59 PM. This will be submitted as a .zip to Canvas and must include a README file explaining your project structure and how it meets the requirements.
- Project Demos (date TBA) will be conducted during reading days. If you will be away, please let Harry know to schedule a make-up time before or after to do your demonstration. The demo will take no more than 10 minutes.

2.3 Sample Ideas

- An app that analyzes live Tweet sentiment about a topic.
- Create a python library that does something useful. Check <http://pypi-ranking.info/alltime> for ideas.
- Use a WEB REST API for Dropbox, Facebook, etc. to do something cool
- Build a game.

2.4 Coding Requirements

- Define and use a custom class that features a magic method (other than init!). It's okay if this class inherits from something other than just object.

- Use at least three of these modules: collections, copy, functools, os, itertools, re, sys, math, datetime, random, heapq, requests, BeautifulSoup, flask, json, pickle, numpy, scipy, matplotlib, scikit-learn, pandas, nltk. Or, suggest your own!
- Use at least one of a decorator or a generator function.
- A readme file explaining how you meet the requirements, how to use your app, and the names of the group members.

3 Grading

Rubric to be hosted on the course website under "project".