

## SI 206 Data-Oriented Programming

**Project Name:** Data-Oriented programming with APIs and Visualization

### Homework Objective:

Demonstrate ability to:

- Create a fully-working program without any scaffolding
- Create and modify tables in a SQLite Database
- Utilize APIs (including researching possible methods)
- Utilize Visualization software (including researching options)
- Follow proper coding and submission conventions

\*\*\*Project of your choice is an option. Your optional project needs to be approved by **Nov 27th** and your proposal should address how you will be hitting on each of the objectives above. (If you will not be meeting an objective make sure to say why and what you will be doing instead.

### Deliverables and Submission Process:

1. **Proposals for alternate assignments due Nov 27th.**
2. **You must submit a plan by December 1st** - APIs you plan on using, visualization tools/package you want to implement, etc.
3. **You must have all of your data collection done (and fully commented) by December 11th.** Students who demo their fully completed project by 12/11 (in class) will receive 3% extra credit of their project score. (Note, this is 3% of their score, not 3% of 310).
4. **You must submit a report on your project and a zipped copy of all of your code by December 15th.** Absolutely not late assignments will be accepted.

### Background:

In this assignment you will be using the skills learned from the course to create your own Social Media/software package tracker.

### PART 1 - Basic work (150 pts)

- Caching setup
- Utilize the API for a social media site or work tool of your choice (Facebook, GitHub, Instagram, Gmail, YouTube or any other site you have an active account with).  
***Twitter is not an option.***









