

Name of Group: JSEN

Group Members: Sarah Zhang, Evan Xiang, Jingwen Zhang, Nancy Li

**Description of Project:** Scraping college subreddits on Reddit and creating lists of most popular keywords from different colleges. Users enter the college, time frame, and task they want accomplished. The scope of the project will be limited to the ten top colleges according to USNews.

**Goals of Project:**

- The goal is to be able to scrape college subreddits
- It will return most popular keywords/phrases from the subreddits for a given time period
  - This will give us an idea of the interests of the student body at a particular college during a particular time period.
- It will also compare percentage similarities across colleges
  - This same functionality can also compare percentage similarities of the same college across time periods
- It will also analyze word prevalence over time
  - It can create a graph that will show the word prevalence as a percentage of total words over time
- It will also analyze upvotes

**Data Sources We Plan to Use:**

HTML and API from subreddit links

**Lists of Tasks to Complete and Timeline for Completing them:**

Each of us is responsible for one of the above tasks.

Nancy: Analyzing word prevalence over time

Evan/Sarah: Percentage Similarities/ Top Keywords

Jingwen: Analyzing upvotes

Week 4

- Presentation

#### Week 5

- Collect data (all ten schools)
- Research characteristics of database that we will need to accomplish each of our tasks
  - Have meeting about this, and discuss how best to proceed in creating database (what characteristics will the tables have? How will we be representing the data?)

#### Week 6-7

- Clean data (for one school)
- Create corpus of insignificant/repetitive words (from one school, limited data)
- Set up database for one school
- Get database working for one school, so that the method can be applied to the rest of the data
- Clean remaining data and add to database

#### Week 8-9

- Each team member works on their designated task separately
- Then, we will integrate all the programs so that it runs cohesively
- Design basic Python UI
- If all other tasks are completed, optionally create simple website interface that will output images (word clouds and graphs)