DraftKings Lineup Design Document

Outline:

- 1. Scrape game by game statistics
 - a. Pro football reference is a good source but is paginated weird and may need some data reformatted for ease of use
 - i. http://www.pro-football-reference.com/play-index/
- 2. Store stats as csv file
- 3. Create predictive model for player statistics
- 4. Apply DK scoring formula to calculate expected DK points
- Create lineups with linear program to optimize expected points subject to DK lineup construction rules
 - a. Also can apply our own lineup construction rules for 50/50 vs tournament
 - b. Example construction constraints:
 - i. Not more than x players from the same team
 - ii. Do not pair QB with receiver from same team
- 6. Script DK website to take advantage of late breaking news
 - a. Alternatively figure out how to use the provided DK lineup tool effectively

General Notes:

- Not sure about best way to model player statistics. Any thoughts you have here would be cool
- We can play around with our own lineup construction rules to maximize/minimize variance. Might have to experiment to figure out exactly what structure to use.
- If you have private github might be better to host on yours. Mine is currently public