

# Sprint 2 Plan

*Data Visualization*

*Team: X-Force*

*Sprint Completion Date: 11/4/18*

*Revision 1*

The goals for this sprint will all involve getting together a basis for the framework of the website. A Django backend framework will be developed, and the sound, graph, and input data parsing components of the project will have a firm foundation.

User Story 1: As a visual learner, I want my data displayed in an organized and easy to implement graph.

1. Configure html pages of website to be able to use D3.js (2 hours)
2. Create a mock bar graph using test data. (1 hour)
3. Implement a mock line graph using test data. (2 hours)
4. Add functionality to make line graph procedurally graph over time. (2.5 hours)

*Total Time: 7.5 hours*

User Story 2: As an auditory learner, I want a graph that conveys data with sound in a way that conveys positive and negative slope.

1. Configure website to work with WebAudio API and Tone.js. (1 hour)
2. Create an oscillator that can be responsive to incoming data and interpret the data as pitch. (1 hour)
3. Make the oscillator follow a given data set and interpret increasing y values as increasing pitch and decreasing y values as decreasing pitch. (2 hours)
4. Implement shepard's tone to convey increasing and decreasing pitch. (3 hours)

*Total Time: 7 hours*

User Story 3: As a user of the website, I want the website to feel organized, work fast and follow an intuitive flow.

1. Initialize Django framework for website. (4 hours)
2. Create Django list object from user data. (1 hour)
3. Create logically organized html pages for website. (4 hours)
4. Fit website view pages into Django framework. (1 hour)
5. Integrate sound and graph functionality into Django. (2 hours)

*Total Time: 12 hours*

User Story 4: As a researcher, I want to be able to input my own data into the website to view a graph relevant to my own studies.

1. Allow users to upload .csv files to website. (3 hours)
2. Interpret .csv file input as data for graph. (2 hours)

*Total Time: 5 hours*

**Team Roles:**

- Taylor Chavez - Product Owner
- Franky Kohn - Scrum Master
- Zac Plante - Developer
- TJ Hansen - Developer
- Zach Sweet - Developer

**Scrum Times:**

Monday 3:30 pm, Tuesday 12:30 pm (time with TA), Thursday 12:30 pm