

Datarama Initial Release Plan

Team Members: Brian Liu, Diego Garcia(PO), Jacob Katzeff, Justin Tse

Meeting times:

Regular team/ta meeting - Thursdays w/ Scott

Scrum/team work meetings (2 week sprints)-

Mondays 4:30pm

Wednesdays 5:00pm

Fridays 3:45pm

Initial guiding question:

What is the correlation between shifting demographics and the positions of in office politicians?

Our product vision:

We will begin by making a map of demographic percents that change over the given timescale. This is a start. As the school year goes on we plan to move on to turning our visualization technology into a webapp.

We would like to make an application wherein a user could input in a certain text format that then could be visualized to the user's liking. This would be accomplished by giving the user an option to define how many dimensions were passed in and what kind of representation for each dimension the would like to see such as, area, color, depth, etc. Then the user could modify their own labels and save their progress. We as a team could not figure out which subset of data type we wanted to work with (labor, health, ethnicity) so, we decided on an app that would allow you make your own visualization.

Possible tools:

For logistics we are using slack for communication and Google drive to keep all team documentation. We of course are keeping our work on github to collaborate. To code we would use javascript because, we would like to work in d3 and, possibly node.js. To host the app we

could use heroku, firebase, mongodb, or some other database and web hosting combination once we get to it.

Possible Challenges:

Only two of our members have experience in javascript and that only includes frontend. None of us have used d3 or taken the data visualization class so we will have to spend a significant amount of time early on getting used to the programming. Like many groups, we all have to balance this class with our other classes. We will have to update the team on how much time we will have free until the next scrum meeting to keep us accountable. Our team has very basic experience in web apps and so this will have to be addressed eventually. Of course it may be a challenge to get the framework to work on everyone's workstation.

Winter quarter Release Goal:

For the first half of this project, we plan on focusing getting a basic application working as outlined in our vision. This does not yet include web functionality.

Spring Quarter Release Goal (tentative):

For the second half, we plan on turning the app into a web app and adding further functionality to the dimension modifications as well user posting and commenting.

Update log for release plan:

- We aren't really sure what the final product should look like, other than the fact that it should visualize data in a meaningful way. The example of Napoleon's march is pretty intimidating because we have no real idea how to make a visualization like that, nor how to find something with so much data to encode. Our goal right now is just to have a product that visualizes data, probably arbitrary data, and then possibly expand on it later.
- We're tending towards map visualizations because they have a lot of module support, and they tend to show trends very well. We don't really know what data we want to visualize yet, but our release at this point looks like it should involve a map visualization with some meaning behind it.
- We're starting to work on a few different types of map visualizations, so it's looking like our release should actually be not just one visualization, but a few different examples of map visualization highlighting different aspects of possible encodings of data in maps. Ideally we'd like to combine them into a single, extremely meaningful visualization at the end of the quarter, but that might not happen, since all the maps we're working on are pretty different.
- Our release plan is solidifying into having a California Map, a US Map, and a World Map that highlight demographics, gun shootings, and population encoded into color, size, and distance. The visualizations should be clear in their message as well as what the encodings represent.
- Our vision is to be able to have multiple maps side by side bound to similar data sets so the user can see a comparison.