

Final Project Proposal

Idea 1: Pirates of the Caribbean Movies Data Visualization

In my project, I will make a series of visualization of interesting data from Pirates of the Caribbean movies.

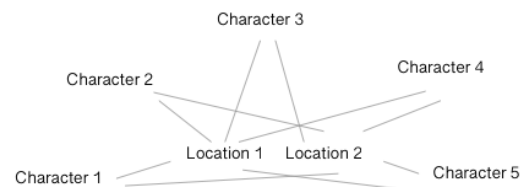
1. One idea is to see character interaction with each other throughout scenes. Color of the line can be sorted by relationship between characters (enemy, friends, lovers, etc)



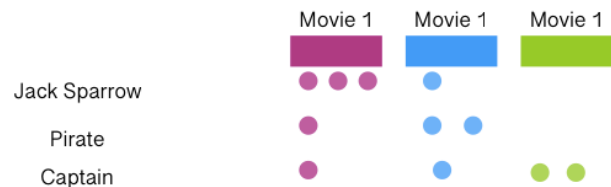
2. The same can be done with fictional locations of the scenes in the movies. List of locations can be found here: http://pirates.wikia.com/wiki/Category:Caribbean_Sea_locations



3. Another approach for the locations is how characters and locations relate to each other.



4. Another idea is to show how often a specific word/line/thing is shown in the movie. For eg: the number of time a character mention the word “pirate” or “ship” or “Jack Sparrow”. These data can be achieved by reading the script of the movie.



5. Some other ideas are: relationship trees between characters that have info of their age, status, etc

Idea 2: Education and Employment

For this idea, I would like to explore education and employment problems in the US. I choose to visualize education of different fields (undergrad level) and employment of those fields and compare some set of data throughout the years.

For eg:

- Number of students in each field vs. number of job listing/employment
- Tuition fee of each field vs. Salary.
- Number of undergrad program of each field every year.

Data sources:

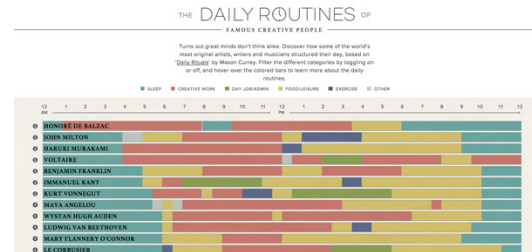
Data from website: <https://stats.oecd.org/Index.aspx?DatasetCode=RGRADSTY#>
<http://data.uis.unesco.org/index.aspx?queryid=163>
<https://www.bls.gov/oes/current/oes271029.htm>
[https://data.bls.gov/oes/#!/indOcc/
Multiple%20occupations%20for%20one%20industry](https://data.bls.gov/oes/#!/indOcc/Multiple%20occupations%20for%20one%20industry)

For the next step, I will need to dig deeper into different data sets and choose what exact fields do I want collect data since each data source divides the fields differently. After that I'll need to start sketching how I want to visualize them.

Idea 3: My Average Life

There is a famous saying that you are the average of the 5 people around you. For this idea, I would love to collect data of 5 people who are closest to me and compare them with mine.

1. One idea is to compare their daily routines with mine based on hours and activities.



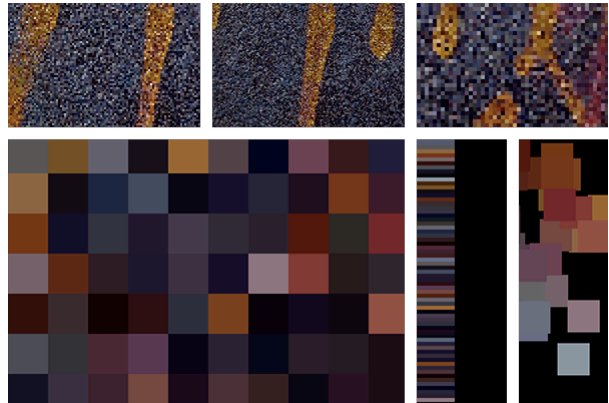
2. I can explore what books they have read based on genres and how many words those book have.
3. Visualize places they have been to (Country/ States they have been to). For these, I can make an interactive map.
4. Track the food they eat in a week (could be based on calories or the ingredients)
5. Visualize the music they listen to a week (by songs, artist, genre)
6. Track their activities (collect data from their phone)

The next step is to decide what data I want to track and, the strategy to track them and ask for my friends' permission.

Idea 4: Collection of poster in the 20th Century

For this idea, I would love to collect as much as I can the posters designed in the 20th Century based on different design movements (list of them can be found at: <https://visscom.wordpress.com/2013/04/07/20th-century-design-movements/>). The data can be achieved through design history books and the Internet.

To push this further, I can combine those posters into an image. One idea is each poster is one colored pixel and combined together.



I can also try to make a (interactive) timeline to see how the movements were born and died and how they relate to each other.

