

Peer feedback

Our peer group members are Jonathan Himes and Jesus Hurtado.

General Questions:

1. The objectives are interesting to the target audience. They are interested in our zoom in feature on the interactive map. Our target audience are basically everyone. Like people who are interested in trending news, or people planning to travel somewhere and want to get some info.
2. The scoop of the project is appropriate. They think we meet the requirement as a final project. But they point out a concern about our dataset. We might need to use the Twitter API to get tweets data, since the Kaggle data set has a lot of missing values. But twitter also has a limit on how much data we can get monthly, so they suggest we might be able to just get monthly tweets data and work on that. And they also provide some links about how to use twitter api to get data, So, we might still need to do some work on that.
<https://github.com/datascience-course/2022-datascience-lectures>
3. The split between optional and must-have features is appropriate. For the must-have feature, we can incorporate the skills we learned so far as a whole project, and it looks like we do need to spend some time on the two main visualization sections, to make the project meaningful and complete. For the optional feature, it will make the visualization more interactive, so if we do have enough time, we will add it, otherwise, we need to focus on the main visualization.
4. The visualization is creative. When we show our proposal, they feel like the visualization is what they imagine we could do. And they are interested in our interactive map.
5. Our project could handle large datasets. Since the attribute we are using is each tweet's date, hashtag, and country, a larger data set with the same attribute can also be handled.
6. They are interested in our idea and think it is detailed enough. It is good to follow the timeline.
7. For the optional feature-pop out, they point out a concern about what if the hashtag contains sensitive information and how we can handle that. We haven't considered this so

far, but probably just show what it is since twitter probably has already filtered out some sensitive information.

Visual Encoding:

1. The visualization follows the principles. They give us suggestions on bubble charts used for interactive maps. Seems like not everyone likes bubble charts, since if the number of occurrences of a hashtag is similar to another, then it will make it hard to make comparison by size. Then we come up with an idea about making a bar chart instead of a bubble chart, and add some transitions onto that, but we haven't decided whether to change or not.
2. We primarily have an interactive map together with a bubble chart. And that matches the most important aspect of our data, to show the trending topics based on different countries on twitter.
3. Another visualization is a line chart together with text on the right side. It will show the number of occurrences of a hashtag during a specific timeframe, and it can effectively show the trends.
4. Our choice of color scale seems pretty good.

Interaction and Animation:

1. The interaction is meaningful. For our interactive map, it can let users choose which country they are interested in and see the trends by clicking that country. And the result will be shown as a bubble chart.
2. We will have two pages to show visualization, so those two sections will be independent of each other. But within each page, it will be split into two sections, left is the main visualization and right one will show the result by clicking the left one. And this outline will be intuitive and straightforward for users.
3. We haven't considered animation, but they give us an interesting idea. For the pop out feature, when you click that bubble, if it can be shown like a chicken cracking an egg, that would be pretty cool. We thought if we have extra time, we might try this, but we will primarily focus on our main visualization part.