

**Project Title:** How does your city commute?

Team Members:

- Lama Albarqawi -u6011663 – [lama.albarqawi@hsc.utah.edu](mailto:lama.albarqawi@hsc.utah.edu)
- Manish Roy - u1145372 -[manish.roy@utah.edu](mailto:manish.roy@utah.edu)
- Rushit Sanghrajka - u1142286 - [rush.sanghrajka@utah.edu](mailto:rush.sanghrajka@utah.edu)

We had the project peer feedback session with:

- Hsuan Lee – u1076070-[hsuan@cs.utah.edu](mailto:hsuan@cs.utah.edu)
- Chein-Wei Sun - u1141797- [cwkenwaysun@gmail.com](mailto:cwkenwaysun@gmail.com)

### General Questions

- Are the objectives interesting to the target audience?  
They liked the idea of trying to find patterns and stories of the bike commuting system for different cities, and excited to see how these different cities might be compared to each other using categorized filtration on Gender or Age for example.
- Is the scope of the project appropriate? If not, suggest improvements.  
  
They have proposed adding a simple map beside the circular styled graph, to show the stations on this map. We thought this point can be added to our “nice to have” points. They have also proposed to locate the stations on the circular graph in a way that reflects their actual positions to each other (e.g. if stations A is close to B and far from C then this distance should be proportionally reflected on the graph). We will work on this but after our Milestone 1.  
The third suggestion was that it would be nice to add a table chart that shows the actual numbers for trips counts that is represented by the connections, in addition to our way of showing it (which is tooltip on hovering).
- Is the split between optional and must-have features appropriate? Why?  
There was no comment on the split, but they have proposed the previously mentioned points.
- Is the visualization innovative? Creative? Why?  
Their feedback on that was it will appropriately and comprehensively cover the answers of the research question if implemented as planned.
- Does the visualization scale to the used dataset? Could it handle larger but similar datasets?  
We will be using all the dataset attributes. It can easily handle larger datasets.

- Is the project plan detailed enough? Is a path to the final project clear?  
There was a concern about how we will split the age groups of the cyclists. But other than that, it was clear enough.
- Is an interesting story told?  
Yes, it can tell an exciting story if we succeeded to match how some characteristics (such as geography, weather) for each city can affect bike usage and total number of trips.

## Visual Encoding

- Does the visualization follow the principles used in class?  
Marks and Channels are chosen appropriately, and will provide a good guidance for the user or the observer.  
We have also asked for feedback on other design principles followed like Expressiveness and effectiveness principles and the scales used, the feedback was positive. They proposed using different scale for each category of the trips filtration.
- What is the primary visual encoding? Does it match to the most important aspect of the data?  
Map: Mark is the red dots, Channel is the position for each city and station if zoomed in.  
Circular graph: Mark are the node for each station and the link that represents the starting and ending points of each trip, Channels are the position of the node, width of the connection which represents total number of trips represented by this connection, and color to distinguish between the filtered trips according to the chosen category option (e.g. If the filtration on Gender, then each connection should split into 2 connections, one is pink to show the total number of female cyclists, and one is blue to show the male cyclists)  
  
They match the most important aspect of the data.
- What other visual variables are used? Are they effective?  
They had a concern that filtering on the trip duration might not be effective, or tell a useful story.
- Is color sensibly used? If not, suggest improvements.  
Since we are not using so much coloring except for splitting connections with regards to category selected, the feedback was that the color is sensibly used.

## Interaction and Animation

- Is the interaction meaningful? If not, suggest improvements.
- If multiple views, are they coordinated? If not, would it be meaningful?

They found the interaction meaningful and the multiple views coordinated. However, the TA proposed using more interaction on the map, in a way that changes the view of the map if a specific station is selected in the circular graph. Which we are planning to manipulate on our next milestone, instead of using static map that shows only cities, we are planning to use Google APIs to zoom in and out to navigate to different stations.

- Is there any animation planned? Is it clear? Is it intuitive?  
No animation is planned for the first milestone. We would include it based on how the data pans out and to show transitions over time.