The University of British Columbia

Data Science 550 Data Visualization I

Mini Poster Project

Together with one partner, your assignment is to use two sheets of paper (size American A4) or equivalent computer screen area to produce two miniposters which tell a story about data with an appropriate mix of graphics and text.

On an additional sheet of paper, you should list the following information, pretending it is early 2009,

- Who are you? i.e. one of "airline employee", "airline consultant", "air traffic regulator", "citizen watchdog", "reporter for NY Times", ...
- Who is your audience? i.e. one of "airline CEO", "Director of NAS", "general public", ...
- Where you are presenting this? i.e. one of "newspaper", "TV public service announcement", as a static display on the website of a single airline, or the NAS, or the NY Times, ...
- Why are you presenting this? What is the basic message that you are trying to convey? (One sentence)
- Your actual names.

As a way to motivate your visualizations, I encourage you to read the article at
`https://www.forbes.com/sites/currentaccounts/2017/03/23/air-traffic-control-is-not-the-real-cause-of-airline-delays/#7ff5b24e2c37`
or any other recent article concerned with cancellations and delays at American airports. The article above has the advantage of containing a few visualizations, some of which could be substantially and easily improved. But don't feel constrained by the article – there are other stories that you can tell.

The data in *air.csv* relate to airline cancellations and delays for the year 2008. This data frame was the basis of the two datasets studied in Lab 2. You can use any or all of these datasets in your project.

You can download the *air.csv* dataset from
`http://rtricks4kids.ok.ubc.ca/wjbraun/DS550/air.csv`.
It is too large to fit on the regular github repository.

In order to read the data from *air.csv* into R, you will need to type

```
air <- read.csv("air.csv")
```

or read in the *.csv* file using the appropriate menu in RStudio. Note that this is a pretty big file, so it may take some time to download. It will also take a few seconds to load into an R session. Once in R, you can use the code in the script *air.R* to merge the airport location information from *airports.R* into the `air` data frame - if you want this information.

On the day of the miniposter session, there will be 14 posters displayed around the room. You will be expected to split time with your partner at your poster location, answering questions from classmates who come by to view your poster.

The other half of your time during the session (approximately 35 minutes) is to be spent wandering around the room, **with something to write with**

- devoting 2 minutes (and no more) to gaining an appreciation for your classmates' posters. Spend most of that time reading the posters to understand the message.
- Check the metadata to see if you caught the message.
- Note the names, together with one positive element and one element that you might have been able to improve upon.