

Assignment-6: Interactive Visualization in R

You will explore data by creating visualizations in R using the Shiny App in a team.

1. Obtain a data set

You will use an external data set (this could be from an R pack, your own data set, you pick any, airbnb - the same cleaned data set from Assignment-1 and 02). You will (1) create two ggplot2 charts and (2) design two separate Shiny interactive visualizations.

BONUS when designing a Shiny dashboard with at least two vizs.

Make sure your data is cleaned so you won't need R/Python/Excel to clean. Only the R code to import and pick columns is what you will need.

You will need to create two projects as instructed in [the tutorial](#): one for ggplot2, one for Shiny vizs.

Did you complete the tutorial? Start from the beginning: if the R pack is missing (do both: install and load), it won't work. I assume everyone is a beginner, so you just need some time commitment and patience to be familiar with R and Shiny. Especially **I posted more beginning and concrete examples during the spring break.**

2. Explore

Did you choose your data? Describe what the goal in exploration is. How are you going to use the vizs to help your exploration?

You need to know the contextual information behind data. Do it so.

3. Create both static and interactive visualizations

(1) Create two insightful ggplot2 charts by using the appropriate charts and the features. You will submit one screenshot from each chart.

(2) Then create and design two separate Shiny interactive visualizations with drop-down menu or any other dynamic layout features. You will submit the published link for each Shiny and one screenshot for each Shiny (so two links, two shots).

You are very flexible in choosing data visualizations and features. Probably you will select a subset of 3-4 columns. This is what you need to see the feature relations.

4. Save and publish the Shiny products

Using Shinyapps.io as instructed, publish the Shiny visualizations (so two publications).

For Shiny: The link and one screenshot from each Shiny (remember two Shiny apps are what you will design) are what you are going to post on myCourses.

5. Submit

(1) Submit one nice screenshot from each ggplot2 chart (so two pics)

(2) Submit the published web link and one nice screenshot from each Shiny apps (so two links and two pics)

Work yourself first, then join your team. One submission of these from any member will suffice.

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Need help? Just visit the office hours or send your work so I can fix it. Write on Slack as well.