Skill Check 2.1

Agreement

This Skill Check is a group assessment, you will be expected to work in groups to complete the assigned work. All group members, unless there are mitigating circumstances, will receive equal credit when the Skill Check is complete. As such, be sure that each of your group members understands the material that you will present, and each takes an equal part in completing the work.

You may use any resource, either online or physical, to complete the work. This includes:

- Any help forum or website (e.g. StackOverflow) questions that already exist.
- Any notes, code, slides, papers, or previous feedback from the instructor.
- Any books, online or physical.
- Scholarly works such as papers.

It DOES NOT include:

- Help from homework websites such as Course Hero or Chegg.

If you use work outside normal course resources (textbooks, lecture notes, slides, code, or instructor feedback), your group is expected to cite the work by providing a URL to the source near the place that the code was used.

Instructions

Create a presentation on the graph-types assigned to your group. Each assigned type has one or more geometric objects (geom) associated with it, as listed below:

Group 1: Continuous x and y data (`geom_point()`, `geom_line()`, `geom_qq_line()`)

Group 2: Continuous y and Categorical x data (`geom_bar()`, `geom_boxplot()`, `geom_violin()`)

Group 3: Data that form distributions (`geom_histogram()`, `geom_density()`, `geom_dotplot()`)

Group 4: Data on maps (`geom_map()`)

Group 5: Data in matrices (`geom_raster()`, `geom_tile()`, `geom_contour()`)

Group 6: "Other" (Pick one from https://exts.ggplot2.tidyverse.org/gallery/)

Your group will be responsible for creating a short slide-show style presentation on each geom, and provide an R Markdown document that provides at least one working example of each geom type (to be submitted before the presentation).

The following information needs to be in the slideshow and R Markdown document:

- A brief narrative of what data style links these geoms together, including the characteristics of data and an example of data types that match the style, clearly identifying each.
- At least one working example of each geom, the product graph presented in the slideshow and the code that reproduces the graph in the R Markdown file.
- An explanation of the different options and/or arguments of each geom. Ideally, each option will have a working example in the R Markdown file.
- A list of resources (website URLs) for any information your group used to construct the examples or slideshows and/or a site with more general information on each type of geom. Each URL should be a working link so that others can click on it and learn more from the site.

The group leader will submit a PDF of the slideshow and the R Markdown file on Canvas before the presentation.