Homework 1

For this assignment, your task is to explore and then plot the familiarity ratings, which is one of the measures from the study we looked at in class. Much like we did in class for the transparency measures, you are to explore the data, looking at the main contrast of interest between metaphors and metonomies as well as at other potentially interesting comparisons. You should produce two sets of graphs:

- **Set 1** consists of exploration graphs, where you should plot the data using two different geoms and at least one grouping variable, to be chosen between **state** and **educ**. In total, you should create four plots, two focused on the main contrast of interest, each with a different geom, and two including at least one further variable. Deliverables:
  - Two plots focused on the main contrast of interest, e.g. one box plot and one bar plot (10 points each graph)
  - Two plots including main contrast of interest and at least one further variable, e.g. one box plot with **type** plotted in terms of **state** and one box plot with **type** plotted in terms of **educ**. If you'd like, you can wrangle the data and group some levels of **type** and/ or **educ** together, e.g. northern German states vs. southern German states, or secondary education diplomas vs. higher education diplomas (10 points each graph)
- **Set 2** consists of camera-ready graphs, where you should pick one pattern/ contrast of your choice and plot it using two different geoms. Importantly, your task is to make the graphs look as bad as possible while plotting the data itself correctly. For that, you will have to explore different combinations of visualization techniques. Make extensive use of `fill`, `color`, facetting, and remember to also modify the legend as well as the plot axes within the `theme()` layer (think of axes labels, ticks, etc.). Most importantly, be creative and note down why your choices result in a bad plot. Deliverables:
  - Two camera-ready graphs, e.g. one box plot depicting the main contrast of interest and one jitter plot depicting the main contrast of interest plotted in terms of **age**, or one bar plot depicting the main contrast of interest and one violin plot also

depicting the main contrast of interest (30 points each graph)

Use `ggsave()` to export your final plots as .png files. Upload your files to Stud.IP as a single .zip file containing two folders, one for each set of graphs. The .zip file should be named > homework1_InitialSurname.