

STA 404/504 Homework 7

Animation + Shiny

For this homework you will be building an animation and a shiny application using the french fry taste testing data. Complete the following:

1. Build an animation with a plot that shows how potato flavors changed across the 10 weeks of the taste test. This animation must be built as a GIF using either the *animation* package or the *gganimate* package in R. You may use any style of plot that makes sense with the data (for ideas see the "RedesigningFrenchFryPlotsComplete.R" file from in Canvas Module 2).
 - [french_fries.Rdata](#)
 - Save your animation in GIF format.
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2. Your shiny app will start with the following app: [frenchFryAppHW5Startup.R](#)
 - The app runs using the following aggregated data: [ffSubj.Rdata](#)
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 - You need to add a dropdown menu that allows the user to select the flavor type displayed in plot. This flavor selection widget needs to be functionally connected to the y-axis of the faceted plot (potato score changes to match flavor selection)
 - You need to add a picture of french fries (jpeg or png) into the sidebar panel of your app. You can find this online or take your own french fry pictures. See the reading tutorials for information on how this can be done.
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Submission Format:

- [6 points] In class on Wednesday 4/17, I will be checking both your animation and shiny app to see that you have both running and functional.
- [4 points] On Canvas you will upload your two R scripts: one for the animation creation and one for the shiny app.