

Lab 2

Your Name Here

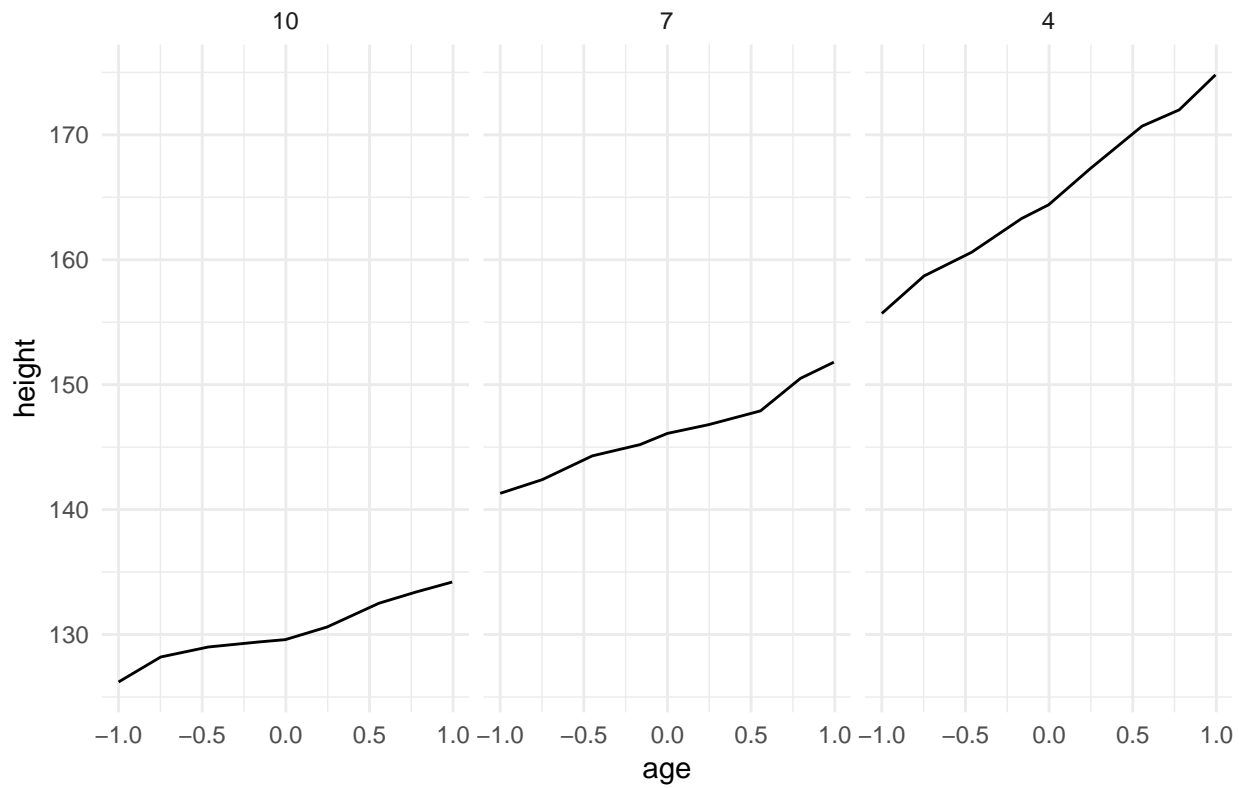
September 26, 2018

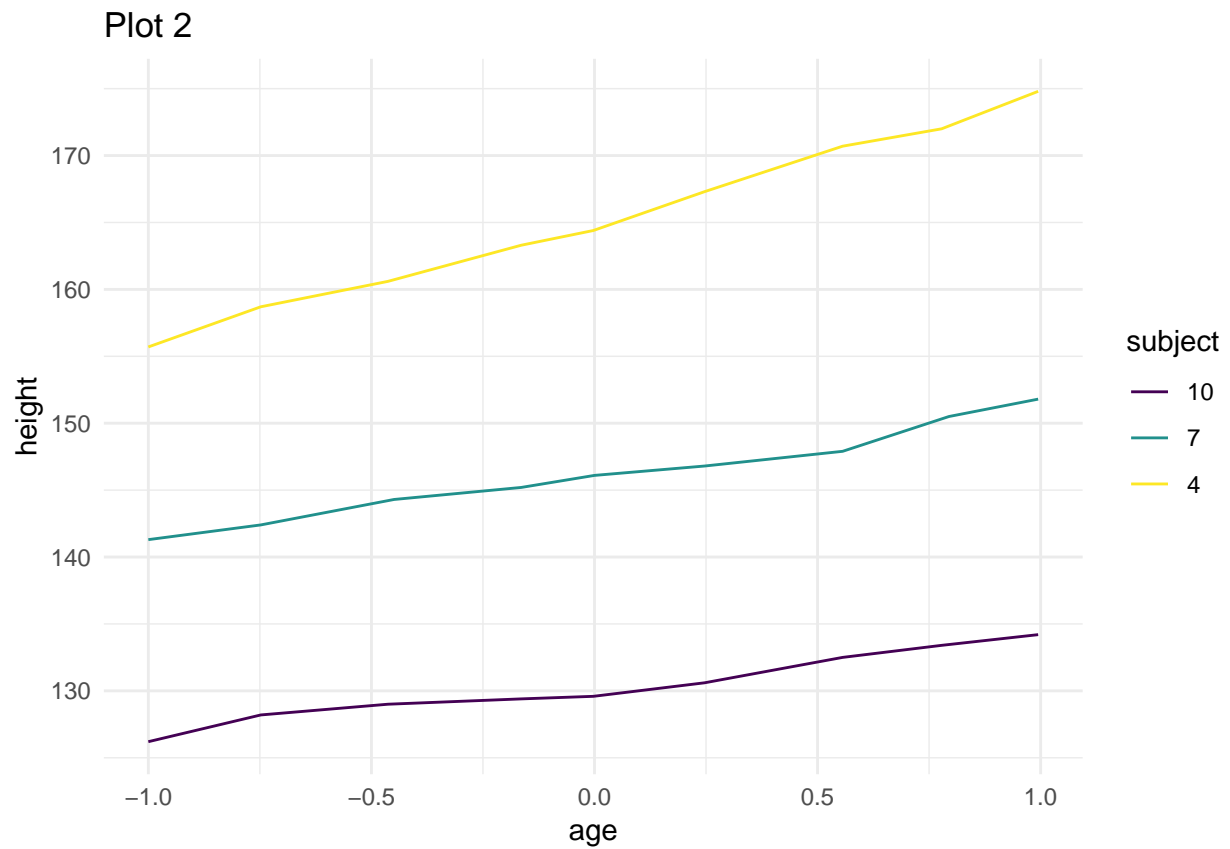
1. Run the following code to
 - (a) download the *nlme* and package
 - (b) load the package
 - (c) save it in a new object as a **tibble**. This last step is obviously not required, but is helpful, from my view.

```
install.packages(c("nlme", "janitor"))
library(nlme)
library(janitor)
library(tidyverse)
pd <- Oxboys %>%
  clean_names() %>%
  mutate(subject = factor(subject),
         occasion = factor(occasion)) %>%
  filter(subject == "10" | subject == "4" | subject == "7") %>%
  tbl_df()
```

1. Reproduce the following plots, using the data. You can use whatever theme you want, but all else should be the same.

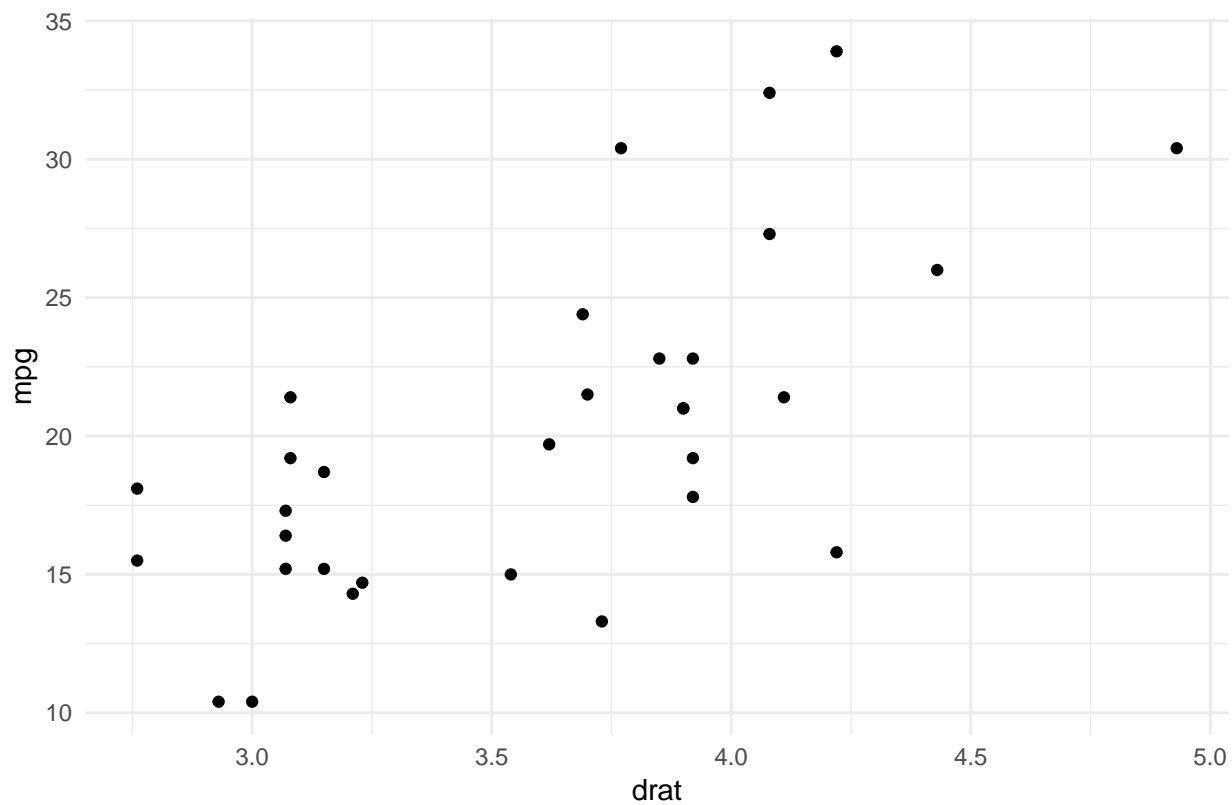
Plot 1



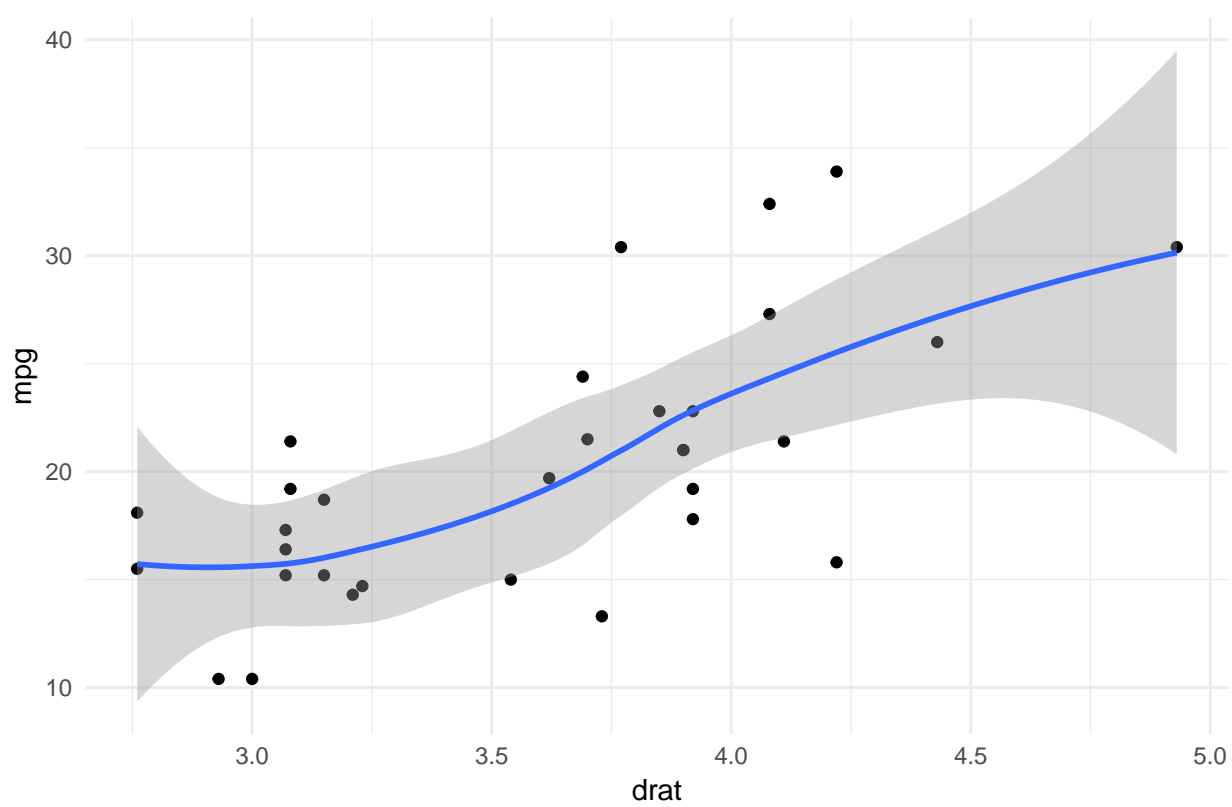


2. Use the *mtcars* dataset from base R to replicate the following plots. (just type *mtcars* into the console to see the dataset).

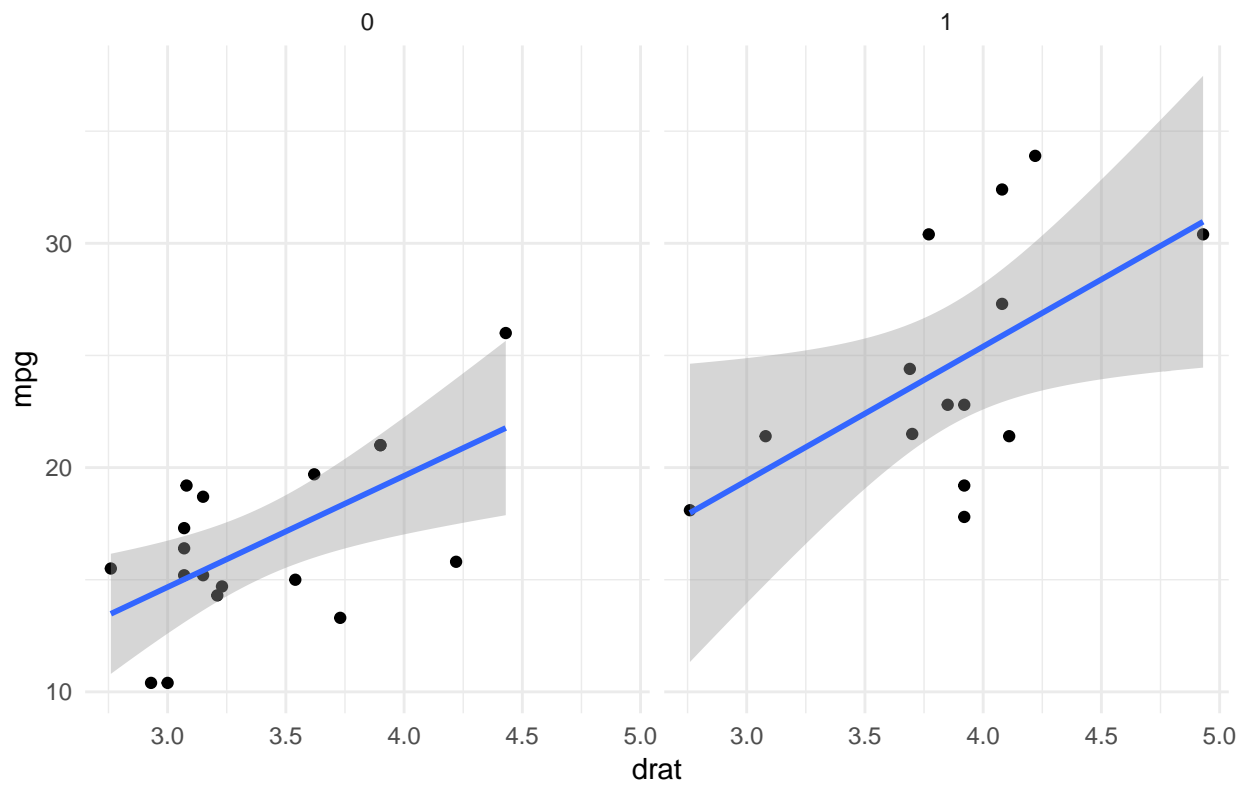
Plot 3



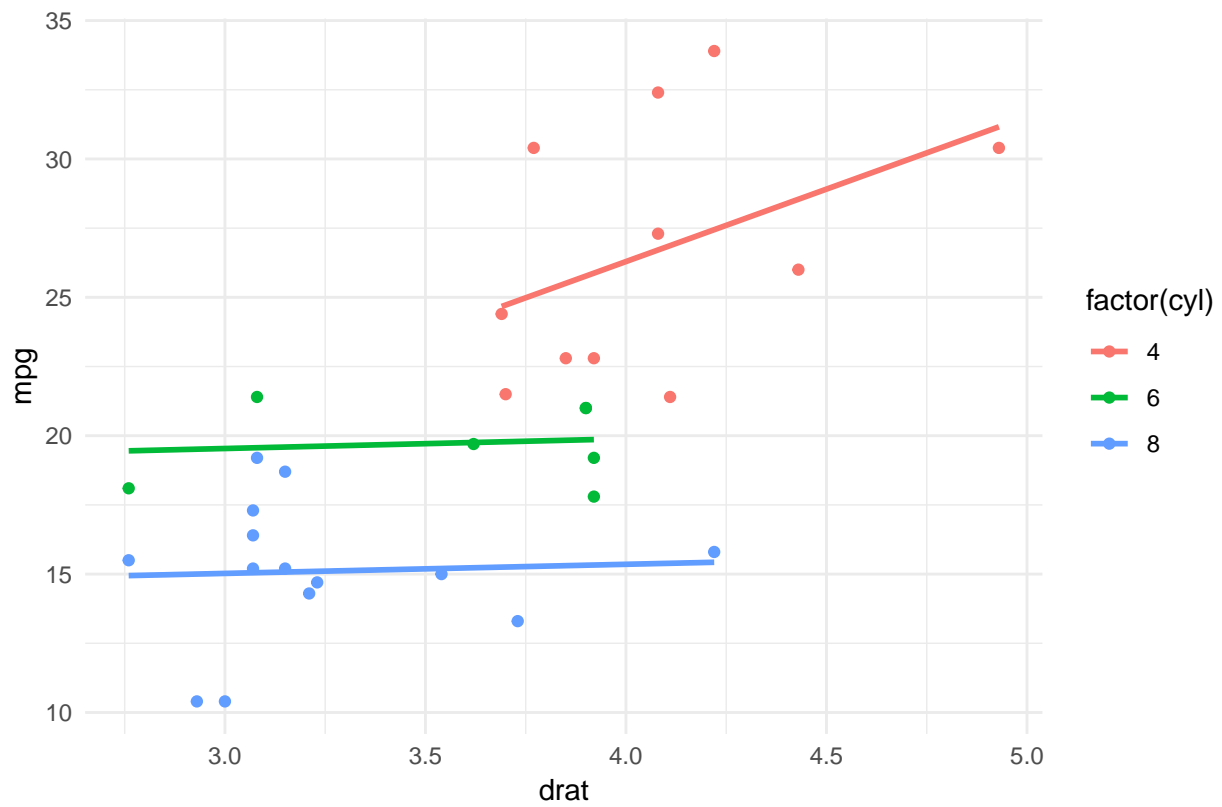
Plot 4



Plot 5

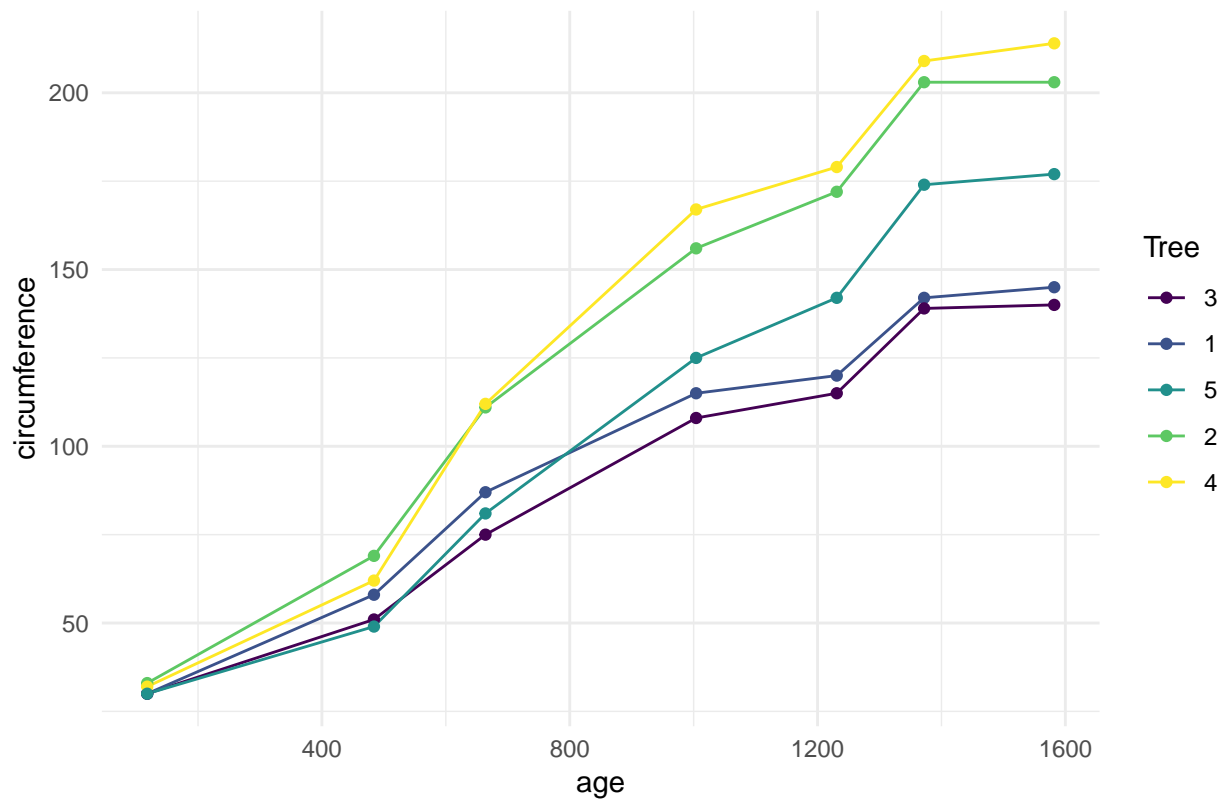


Plot 6



3. Use the *Orange* dataset, also part of base R, to replicate the following plots.

Plot 7



Orange Tree Growth

Gray line displays a linear model fit to the data.

