

Homework 2

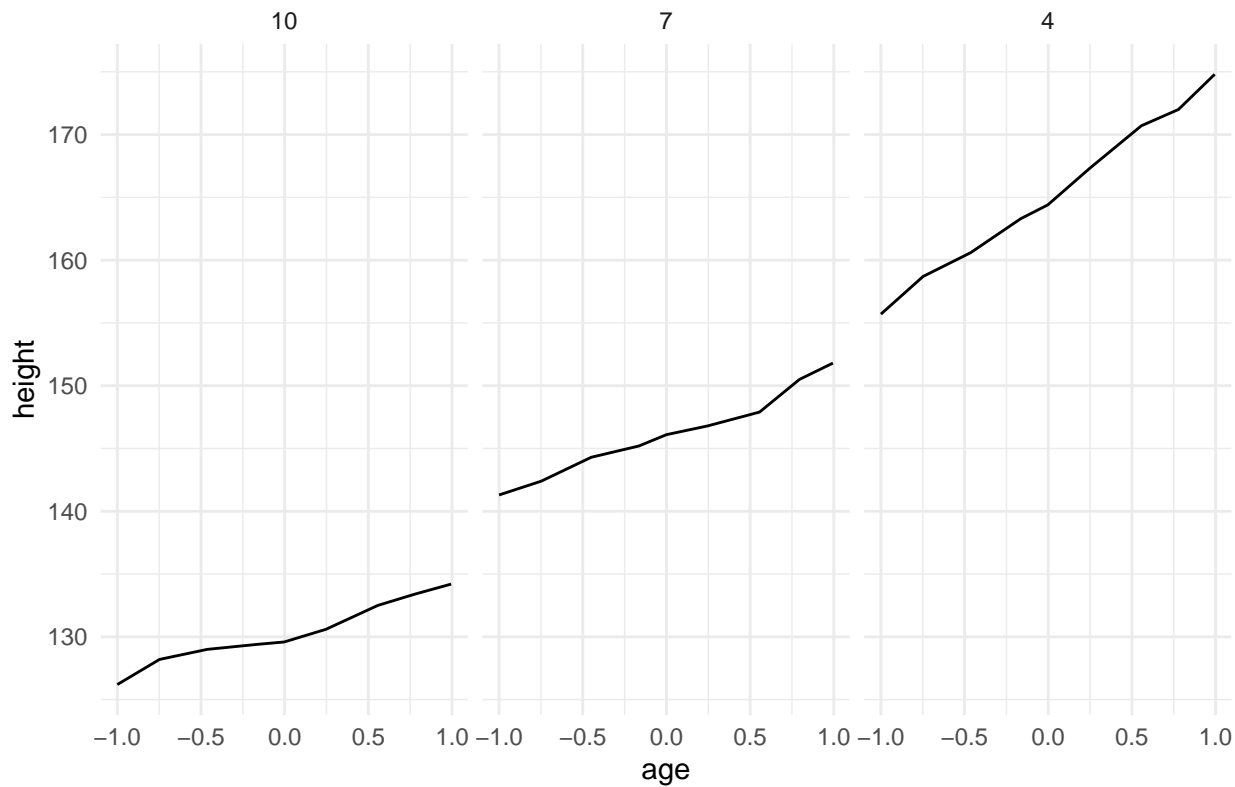
Key

1. Install the `{nlme}` package
2. Load `{nlme}`, `{janitor}`, and the `{tidyverse}` packages in the “setup” chunk
3. Run the chunk below to prep some data from the `{nlme}` package for plotting

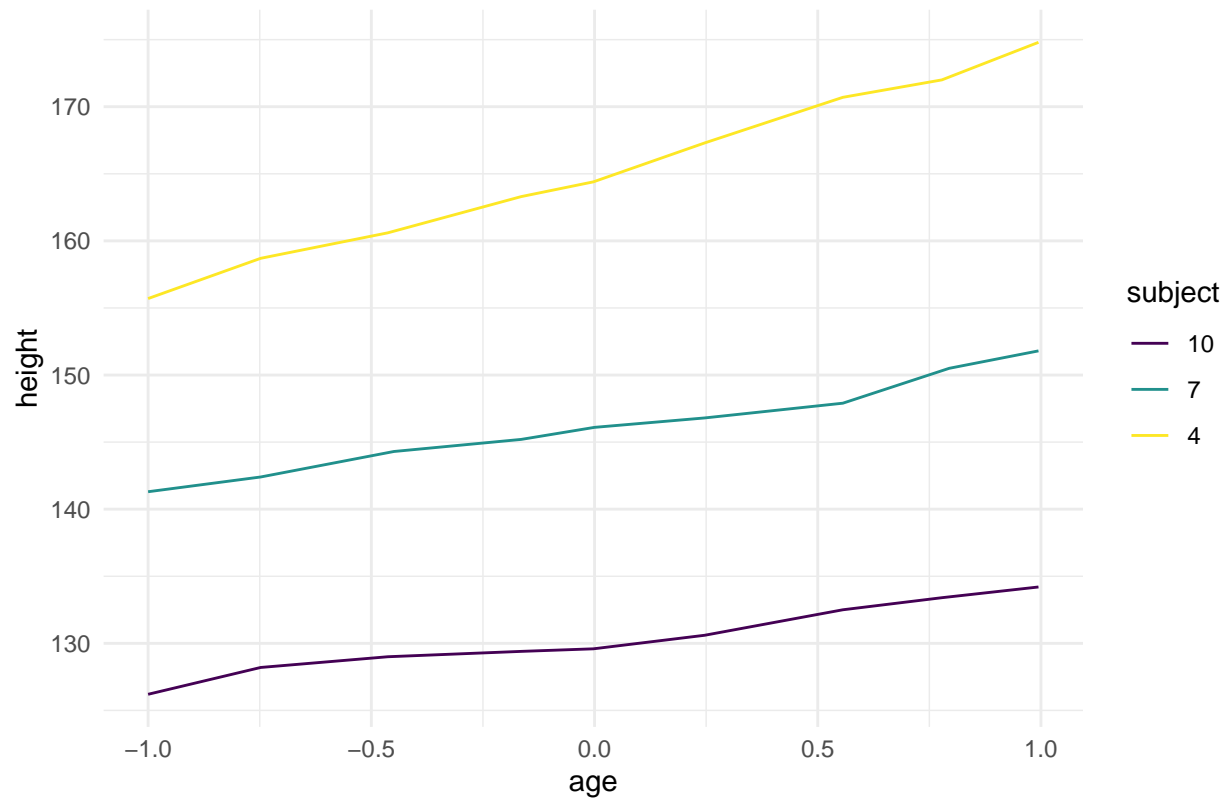
```
pd <- Oxboys %>%  
  clean_names() %>%  
  mutate(subject = factor(subject),  
         occasion = factor(occasion)) %>%  
  filter(subject == "10" | subject == "4" | subject == "7") %>%  
  as_tibble()
```

4. Reproduce the following two plots, using the `pd` data. You can use whatever theme you want (I used `theme_minimal()`), but all else should be the same.

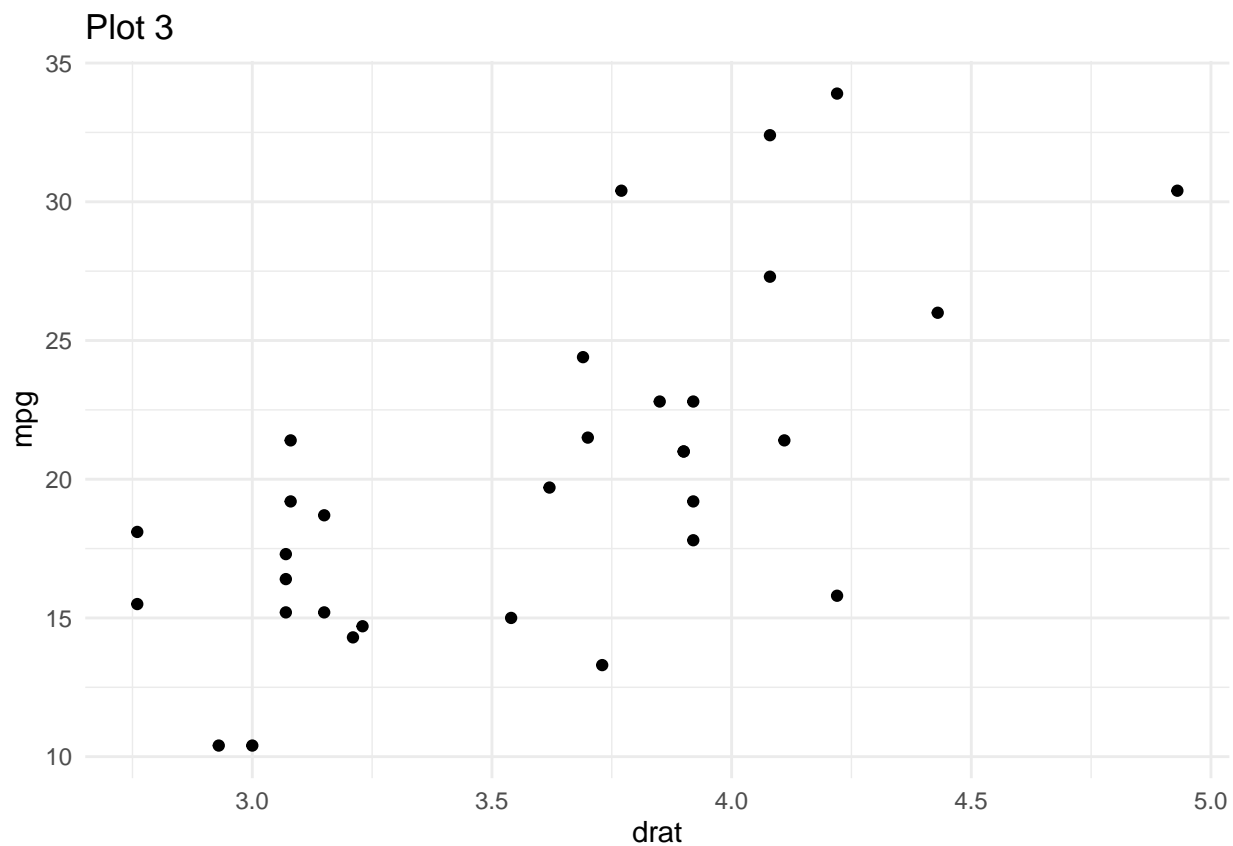
Plot 1



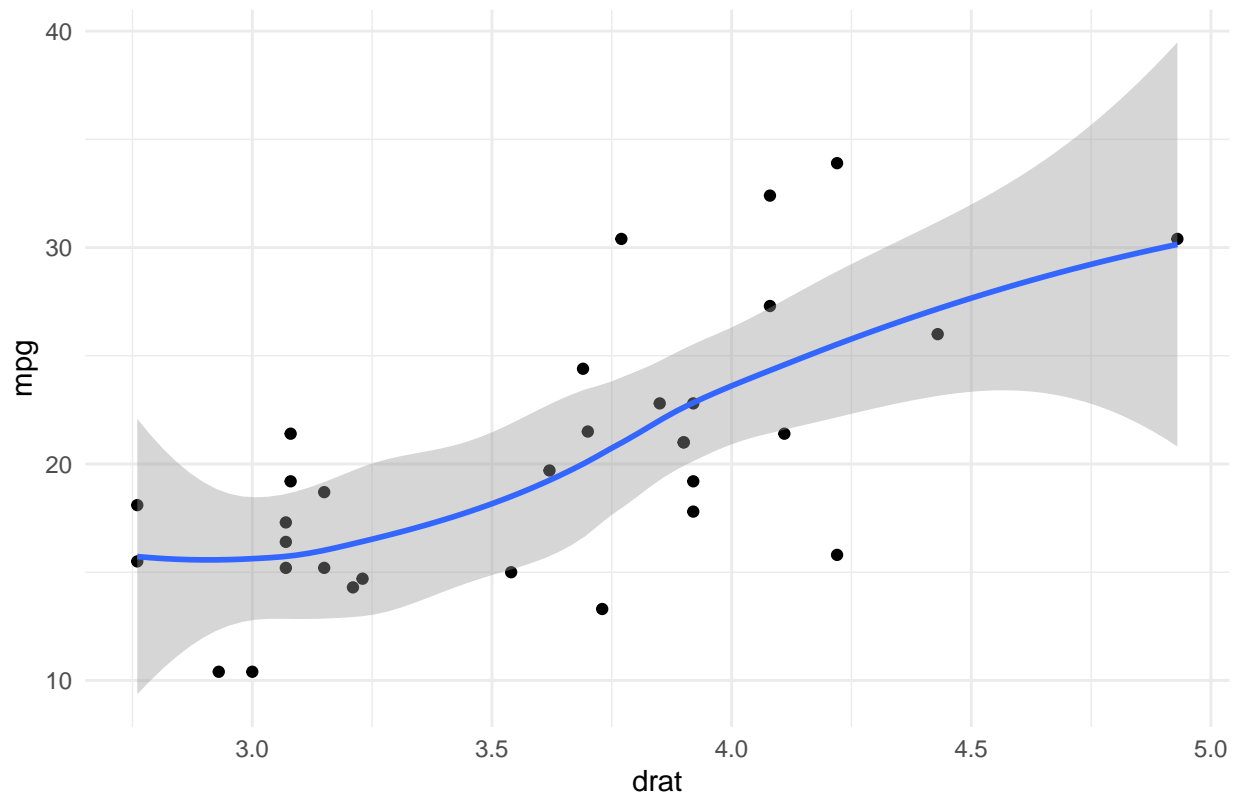
Plot 2



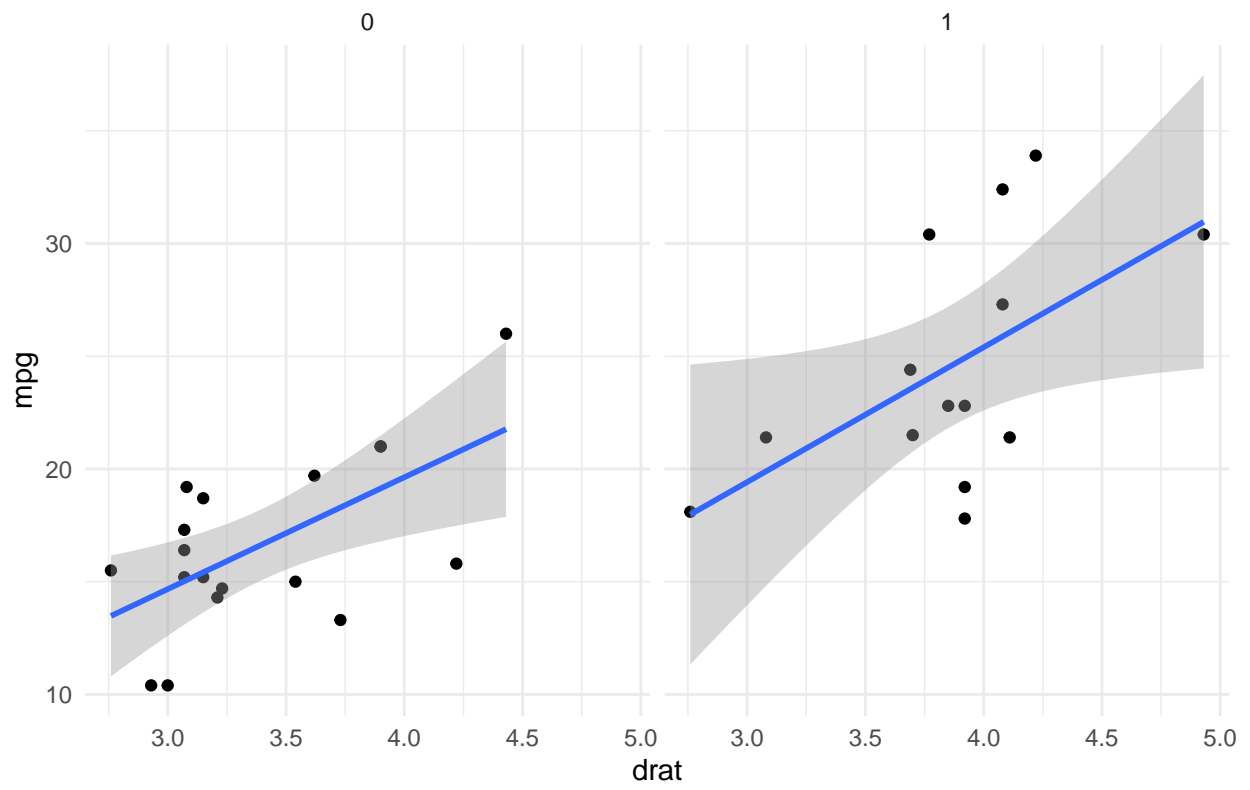
2. Use the *mtcars* dataset from base R to replicate the following plots. (Just type *mtcars* into the console to see the dataset).

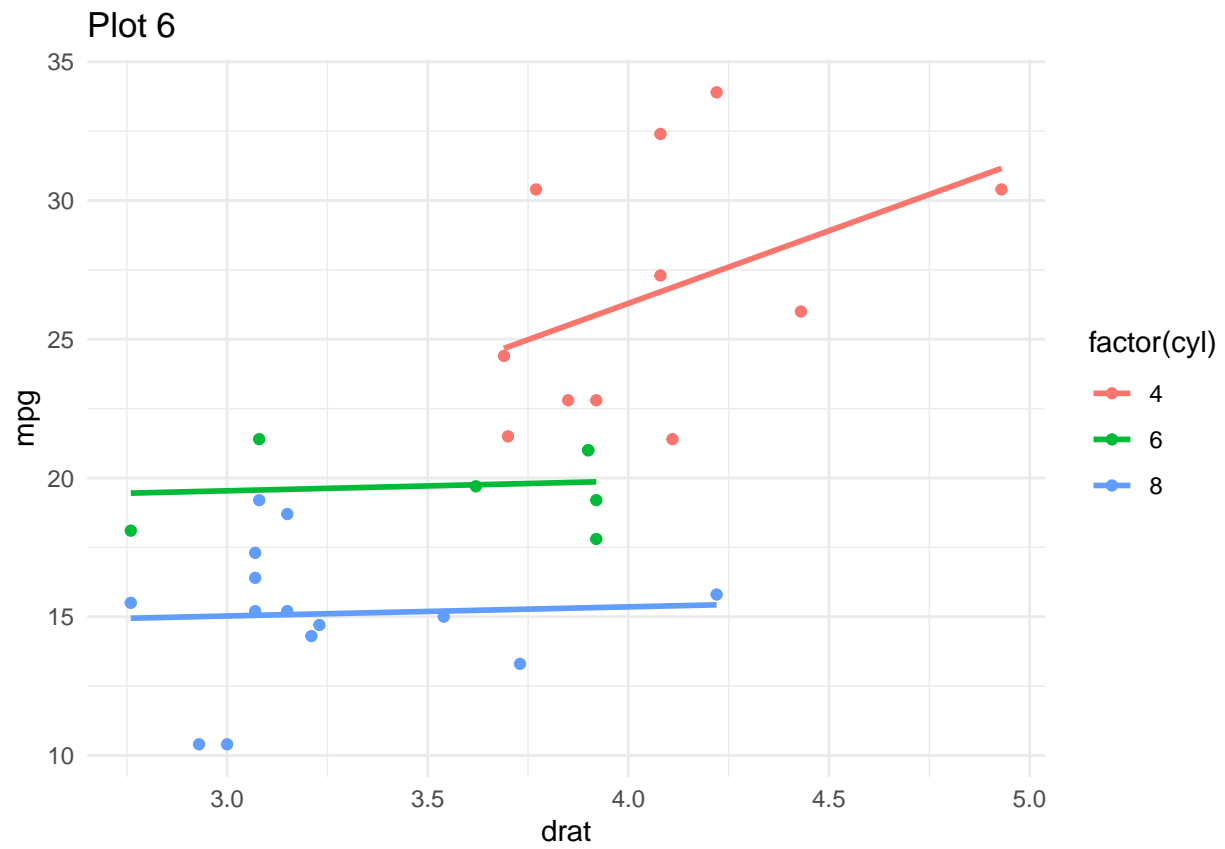


Plot 4

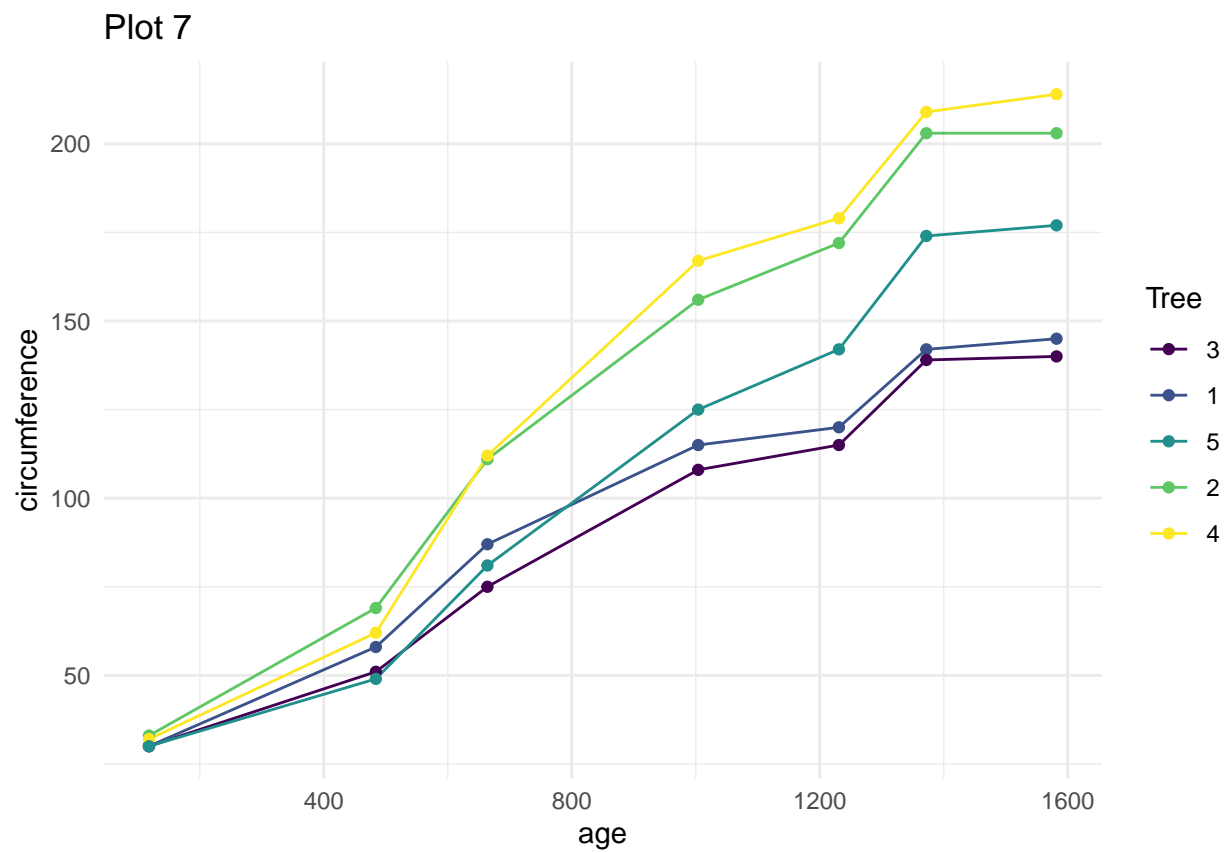


Plot 5





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



Orange Tree Growth

Gray line displays a linear model fit to the data.

