Homework 1

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```
library(tidyverse)
library(openintro)
```

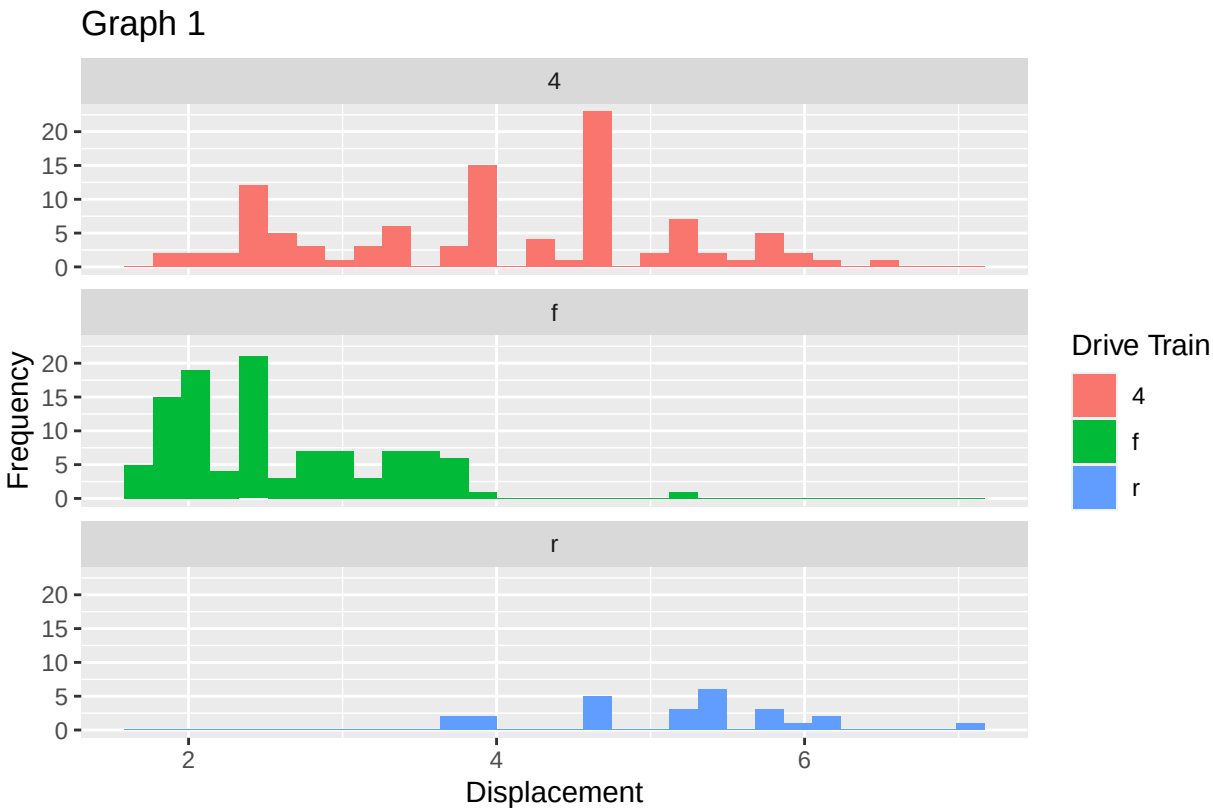
Loading the Data

```
data("seattlepets")
```

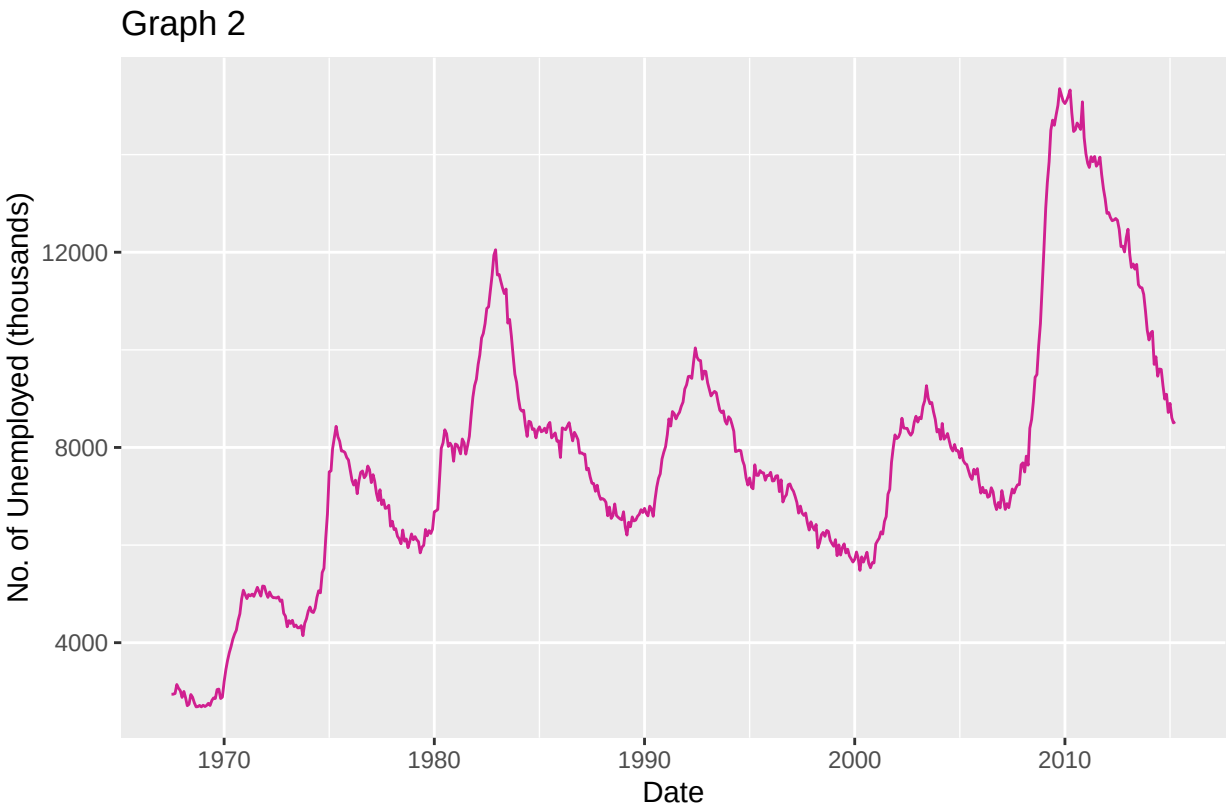
Exercises

1. There are 52,519 pets in the dataset.
2. We have 7 variables for each pet.
3. The top three most common pet names (omitting the `NA` data) in Seattle are Lucy, Charlie, and Luna.
4. Recreated plots:

```
# Graph 1
data("mpg")
ggplot(mpg, mapping = aes(x = displ)) +
  geom_histogram(mapping = aes(fill = drv)) +
  facet_wrap(~drv, nrow = 3) +
  labs(title = "Graph 1", y = "Frequency",
       x = "Displacement", fill = "Drive Train",
       caption = "This is a caption.")
```



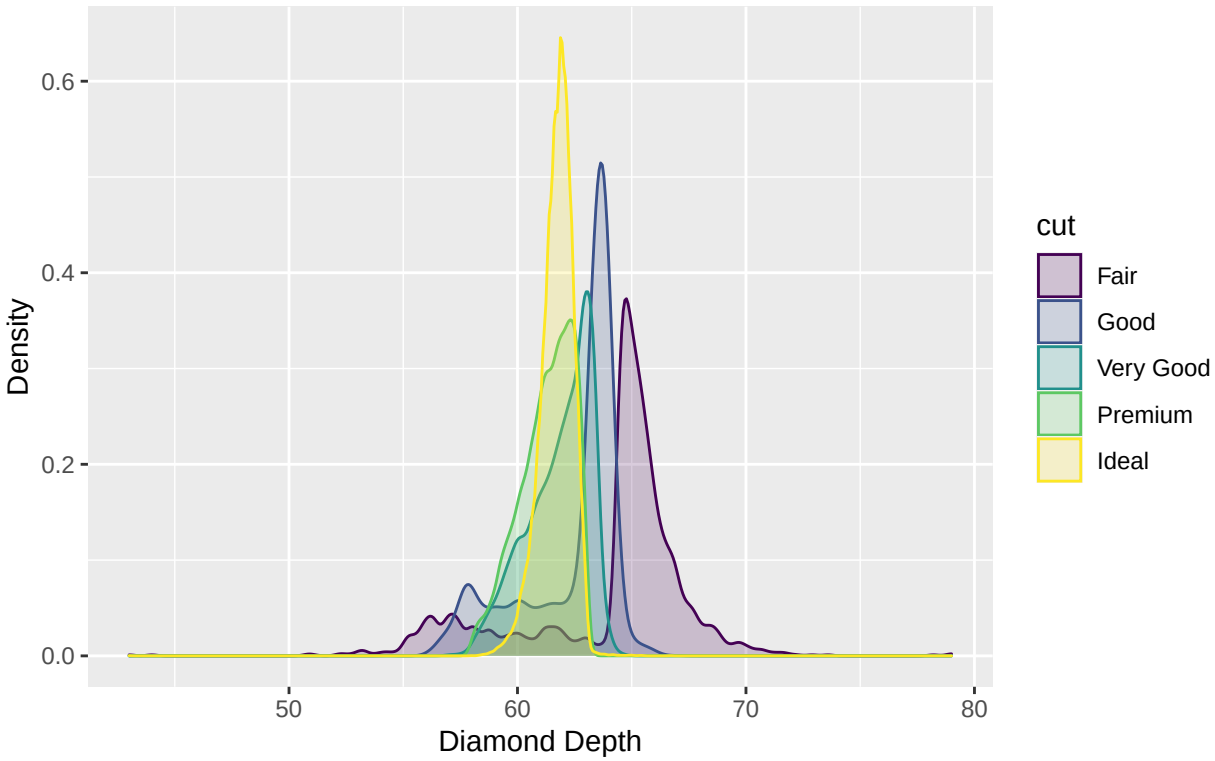

```r
# Graph 2
data("economics")
ggplot(economics, mapping = aes(x = date, y = unemploy)) +
  geom_line(color = "violetred") +
  labs(title = "Graph 2", x = "Date",
       y = "No. of Unemployed (thousands)",
       caption = "The color used is violetred.")
```



The color used is violetred.

```
# Graph 3
data("diamonds")
ggplot(diamonds, aes(x = depth)) +
  geom_density(mapping = aes(color = cut, fill = cut),
               alpha = 0.2) +
  labs(x = "Diamond Depth", y = "Density",
       caption = "Both the fill and the color are grouped by the variable `cut`. The transparency is se
       title = "Graph 3")
```

Graph 3



Both the fill and the color are grouped by the variable ‘cut‘. The transparency is set to 0.2.