Visualization I Exercise Key

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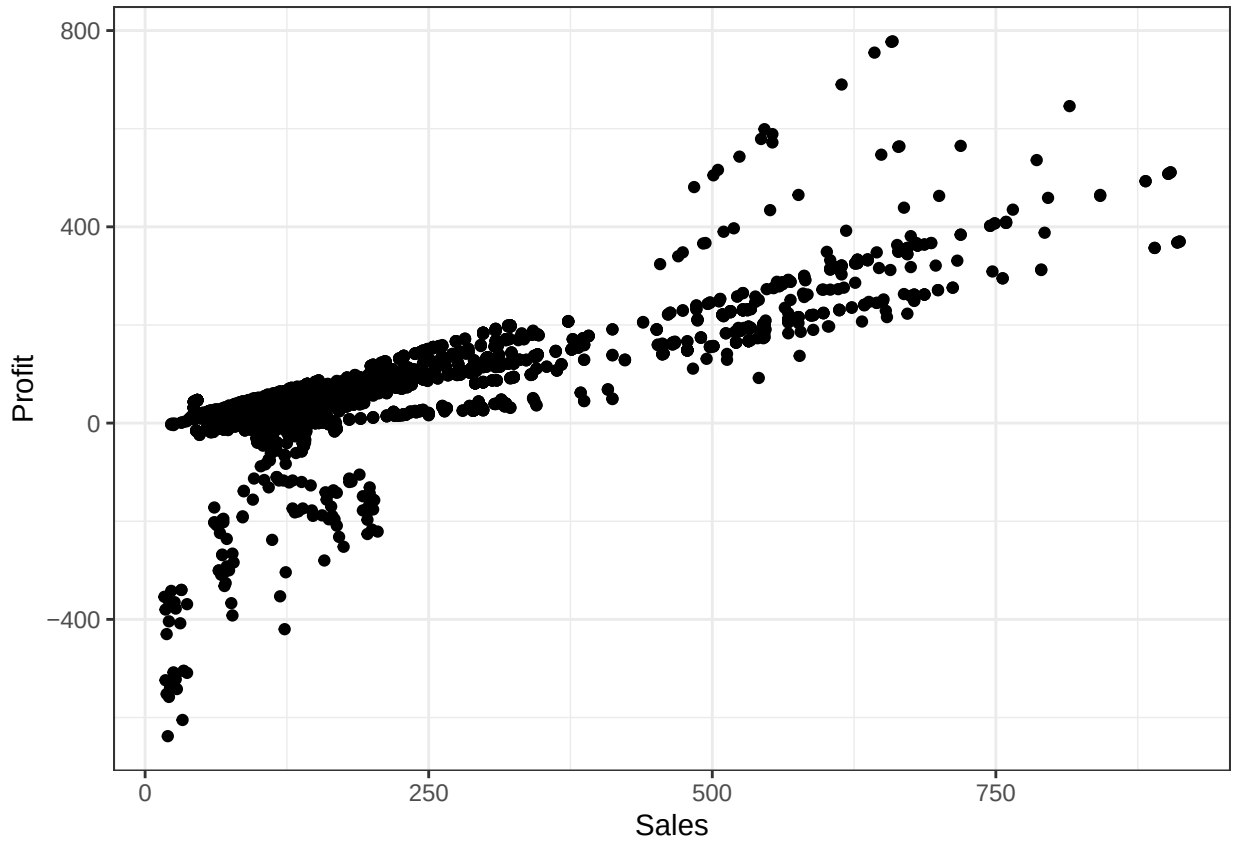
Slide Visuals

```
library(tidyverse) # load package
```

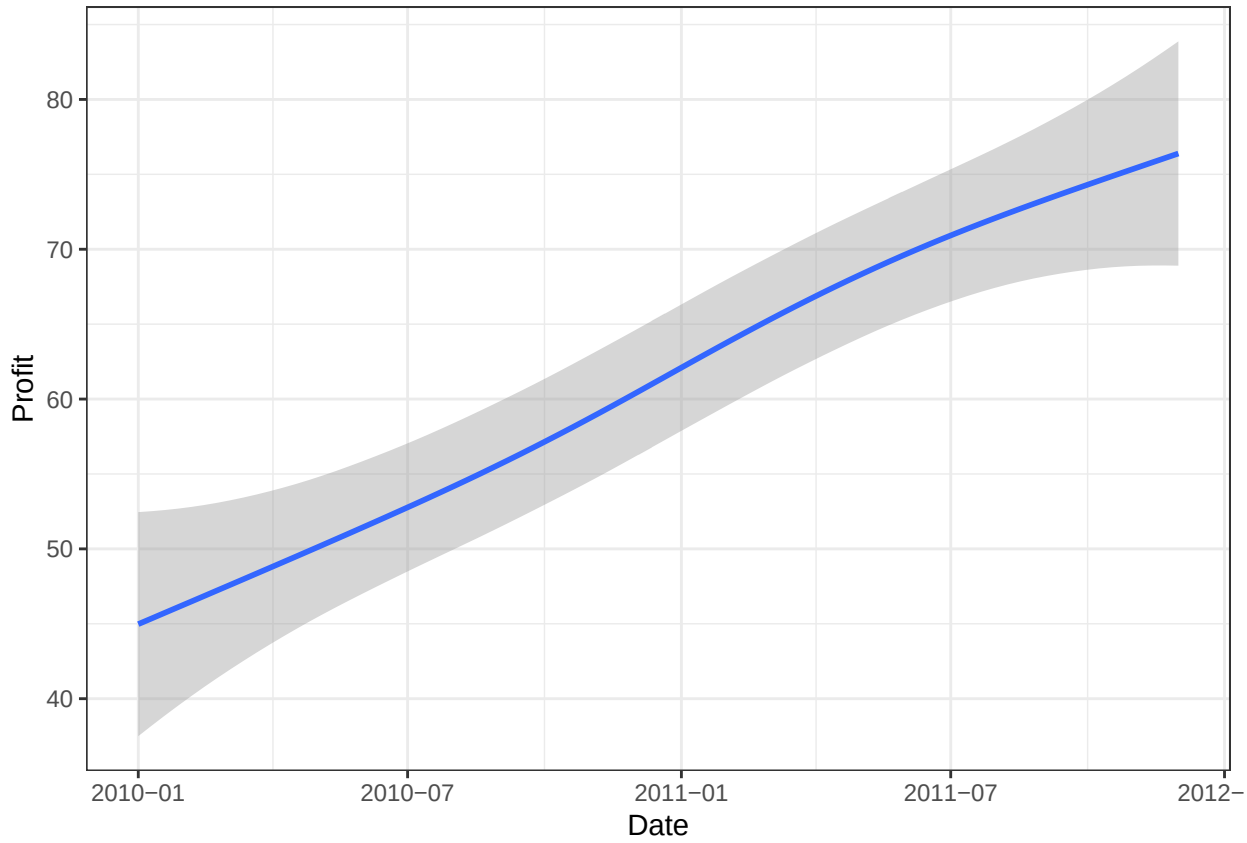
```
## -- Attaching packages --------------------------------------- tidyverse 1.3.0 --

## v ggplot2 3.3.3     v purrr   0.3.4
## v tibble  3.0.6     v dplyr   1.0.4
## v tidyr   1.1.2     v stringr 1.4.0
## v readr   1.4.0     v forcats 0.5.1

## -- Conflicts ------------------------------------------ tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()    masks stats::lag()
```

```
library(readxl)

CoffeeChain <- read_excel("CoffeeChain.xlsx")

ggplot(data = CoffeeChain) +
  geom_point(mapping = aes(x = Sales, y = Profit)) +
  theme_bw()
```



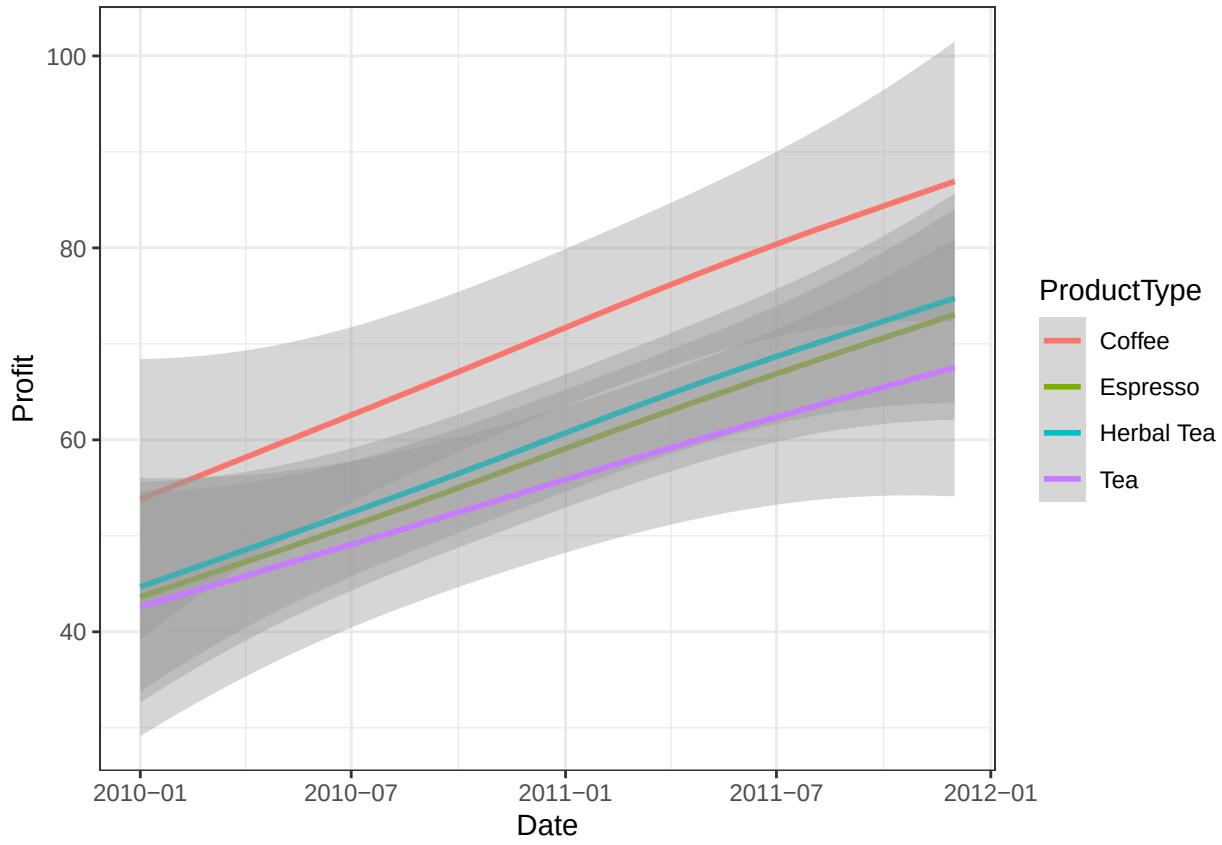

```
ggplot(data = CoffeeChain) +
  geom_smooth(mapping = aes(x = Date, y = Profit)) + theme_bw()
```

```
## `geom_smooth()` using method = 'gam' and formula 'y ~ s(x, bs = "cs")'
```



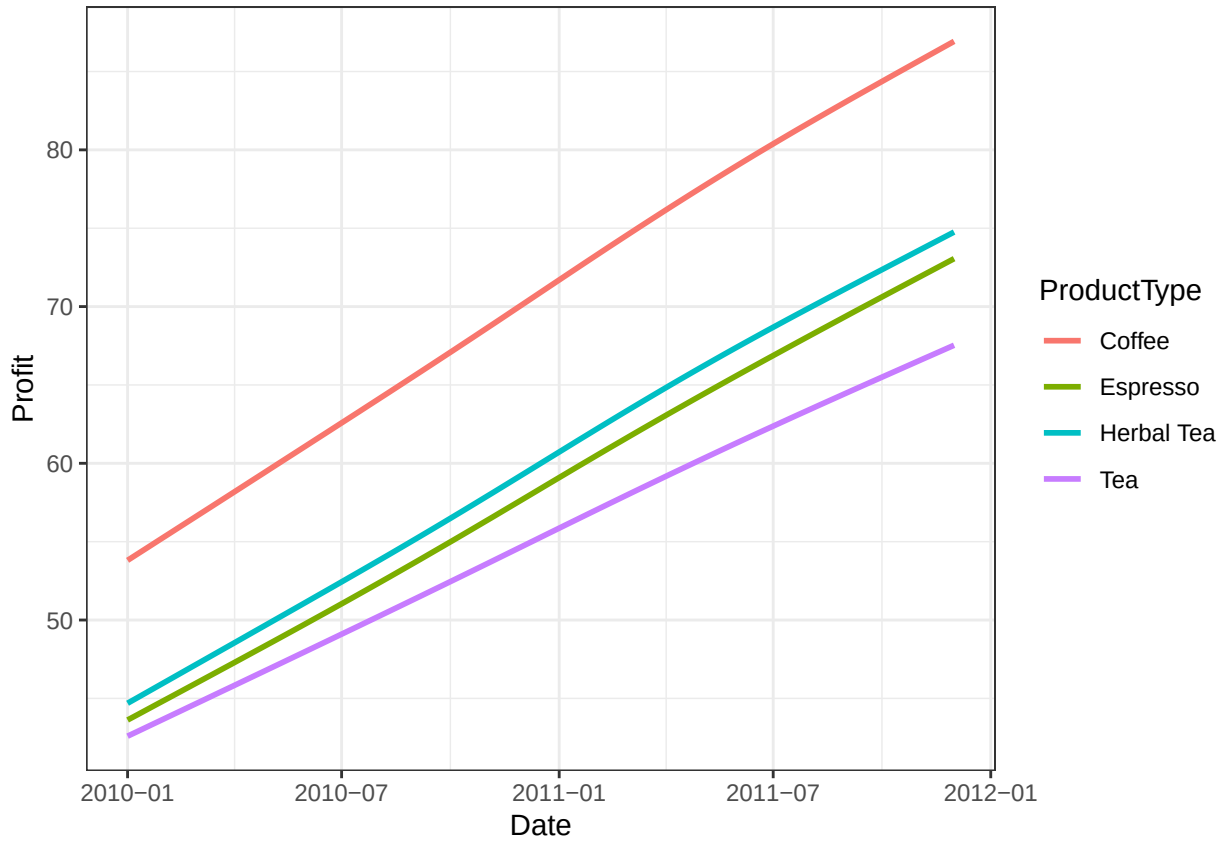

```
ggplot(data = CoffeeChain) +
  geom_smooth(mapping = aes(x = Date, y = Profit, color = ProductType)) + theme_bw()
```

```
## `geom_smooth()` using method = 'gam' and formula 'y ~ s(x, bs = "cs")'
```

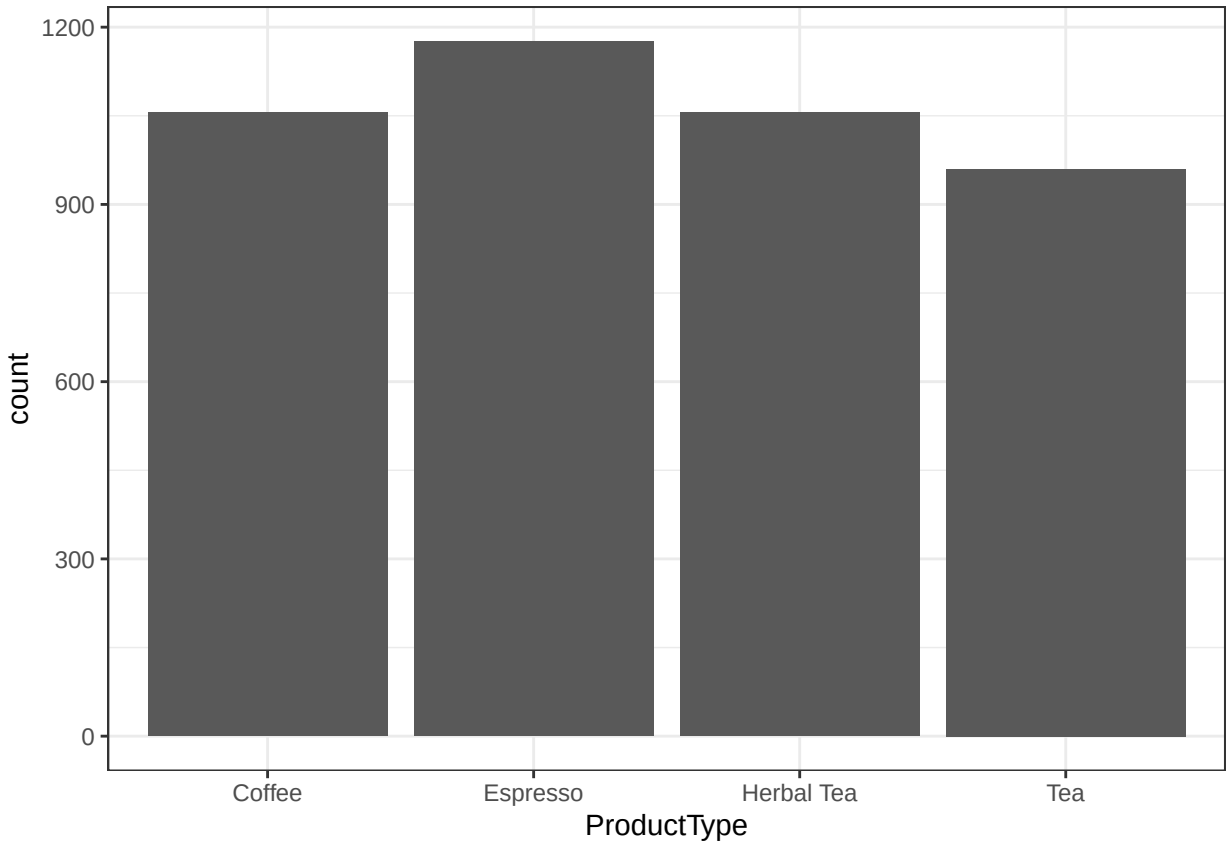



```
ggplot(data = CoffeeChain) +
  geom_smooth(mapping = aes(x = Date, y = Profit, color = ProductType), se = FALSE) + theme_bw()
```

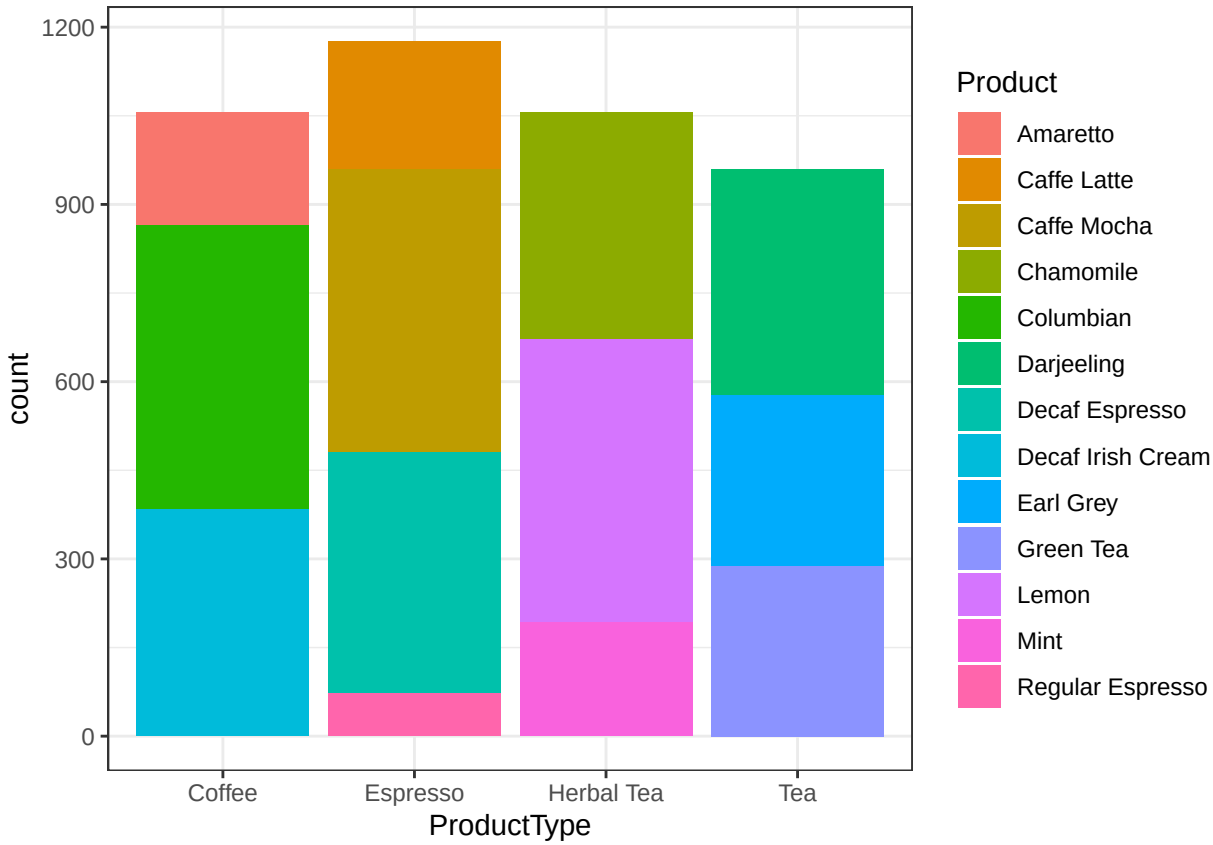
```
## `geom_smooth()` using method = 'gam' and formula 'y ~ s(x, bs = "cs")'
```




```
ggplot(data = CoffeeChain) +
  geom_bar(mapping = aes(x = ProductType)) + theme_bw()
```



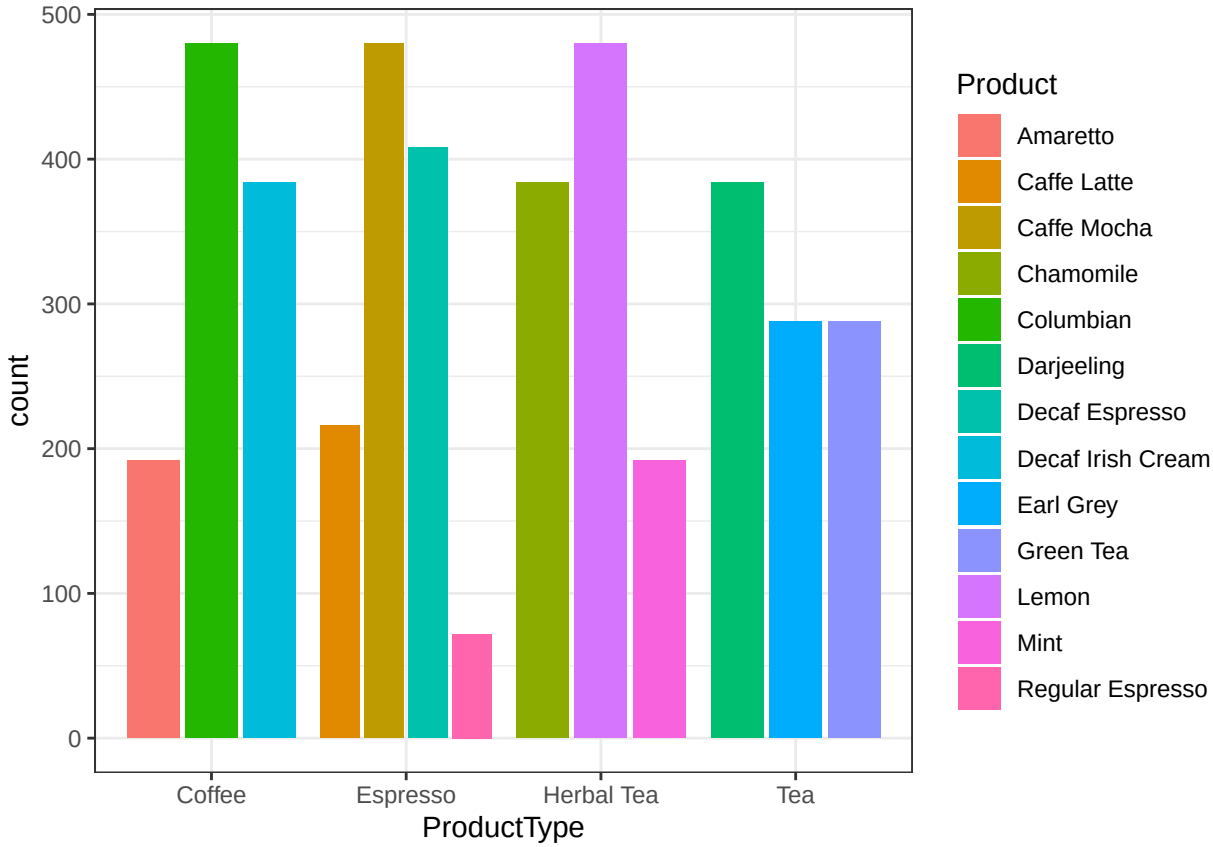

```
ggplot(data = CoffeeChain) +
  geom_bar(mapping = aes(x = ProductType, fill = Product)) + theme_bw()
```



Exercise

Below is the code the re-produce the graph from slide 21.

```
ggplot(data = CoffeeChain) +
  geom_bar(mapping = aes(x = ProductType, fill = Product), position = "dodge2") + theme_bw()
```


500
400
300
200
100
0
count
Coffee
Espresso
Herbal Tea
Tea
ProductType
Product
Amaretto
Caffe Latte
Caffe Mocha
Chamomile
Columbian
Darjeeling
Decaf Espresso
Decaf Irish Cream
Earl Grey
Green Tea
Lemon
Mint
Regular Espresso