## lab-07-simpsons.Rmd

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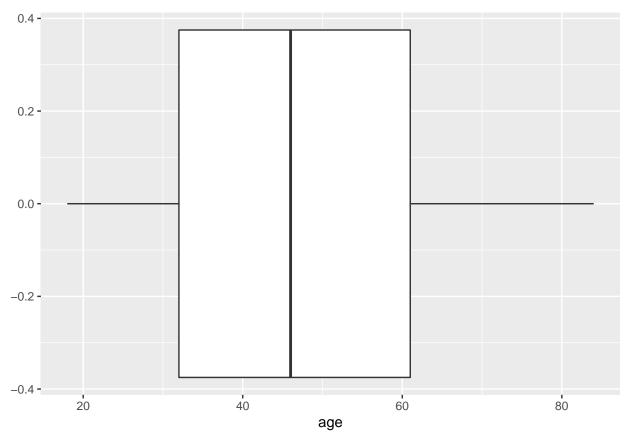
#### 17 March 2021

### **Packages**

```
library(tidyverse)
library(mosaicData)
Exercises
  1.
?Whickham
Your answer: observational, Because they notice a person's health status after a period of time
  2.
nrow(Whickham)
## [1] 1314
Your answer; obs 1314
Each row represents whether the person is alive or dead, is he a smoker or not, and how old he is
  3.
names (Whickham)
## [1] "outcome" "smoker"
Your answer: 3 var, "outcome" "smoker" "age"
class(Whickham$outcome)
## [1] "factor"
class(Whickham$smoker)
## [1] "factor"
class(Whickham$age)
## [1] "integer"
Your answer: 3 var , "outcome" "smoker" "age"
ggplot(Whickham, aes(x = outcome)) +
  geom_bar()
```

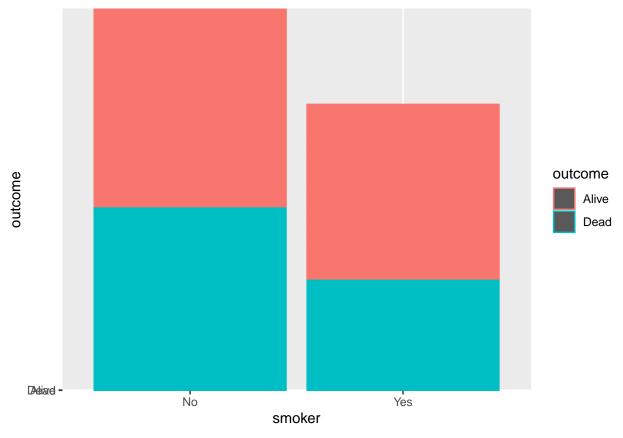






4. I expect that the health will be worse after a period of time and that it may cause the person to die if he continues to smoke

ggplot(data=Whickham, aes(x=smoker, y=outcome, color=outcome)) + geom\_bar(stat="identity")



Knit, commit, and push to github.

5.

# Whickham %>% count(smoker, outcome)

```
##
     smoker outcome
                       n
## 1
         No
              Alive 502
## 2
         No
               Dead 230
## 3
        Yes
              Alive 443
## 4
        Yes
               Dead 139
  6.
```

7.

Knit, commit, and push to github.