lab-07-simpsons.Rmd

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Packages

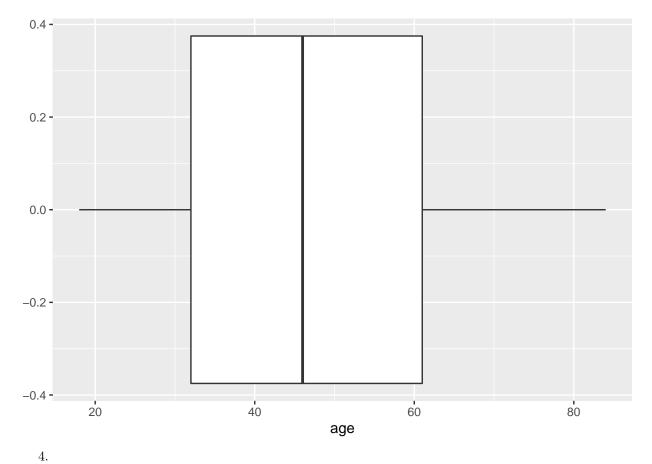
```
library(tidyverse)
library(mosaicData)
Exercises
  1.
?Whickham
Your answer: observational , Because they notice a person's health status after a period of time 2.
nrow(Whickham)
## [1] 1314
Your answer; obs 1314
Each row represents whether the person is alive or dead, is he a smoker or not, and how old he is 3.
names(Whickham)
## [1] "outcome" "smoker"
Your answer: 3 var , "outcome" "smoker" "age"
unique(Whickham$outcome)
## [1] Alive Dead
## Levels: Alive Dead
unique(Whickham$smoker)
## [1] Yes No
## Levels: No Yes
unique(Whickham$age)
## [1] 23 18 71 67 64 38 45 76 28 27 34 20 72 48 66 30 33 68 61 43 47 22 39 80 59
## [26] 56 62 51 32 60 37 36 50 55 73 52 25 53 31 54 69 79 75 21 29 24 26 49 84 40
## [51] 44 74 46 35 77 57 42 81 19 63 78 83 82 70 58 41 65
Your answer: alive dead, yes, no
```

ggplot(Whickham, aes(x = outcome)) +

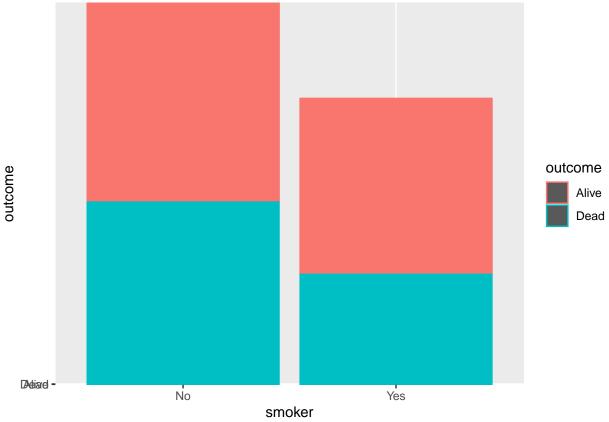
geom_bar()







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



ans: Their continued smoking will lead to their death $% \left(-1\right) =-1$

Knit, commit, and push to github.

5.

Whickham %>% count(smoker, outcome)

```
##
     smoker outcome
## 1
         No
               Alive 502
## 2
         No
                Dead 230
## 3
        Yes
               Alive 443
## 4
        Yes
                Dead 139
  6.
  7.
```

Knit, commit, and push to github.