lab-07-simpsons.Rmd

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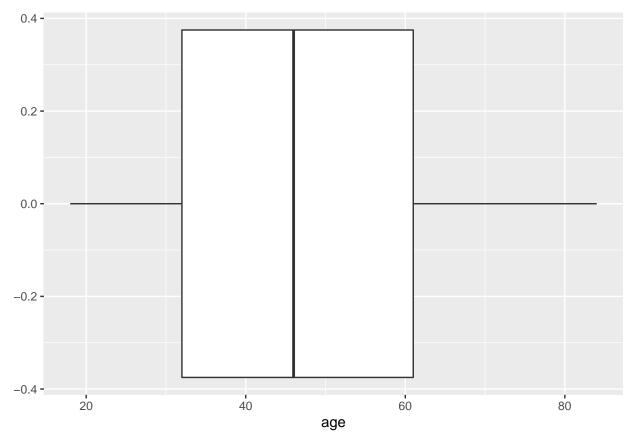
Packages

geom_bar()

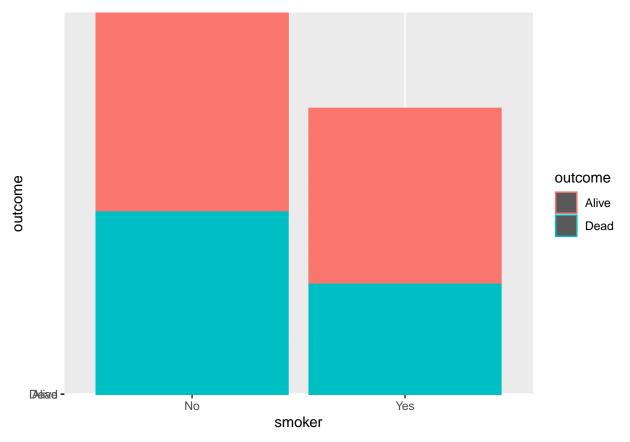
```
library(tidyverse)
library(mosaicData)
Exercises
  1.
?Whickham
Your answer: observational, Because they notice a person's health status after a period of time
  2.
nrow(Whickham)
## [1] 1314
Your answer; obs 1314
Each row represents whether the person is alive or dead, is he a smoker or not, and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





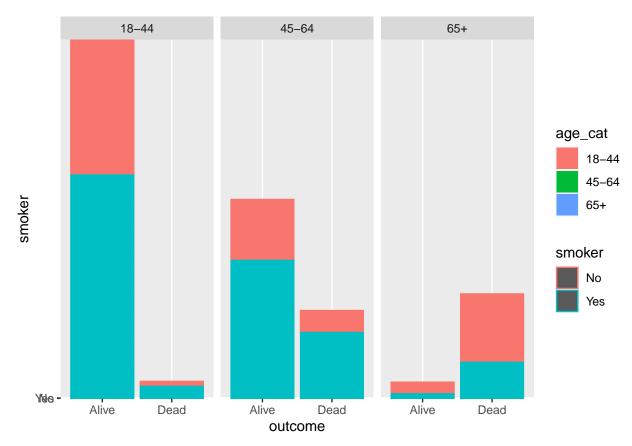


4. If smokers continue this habit, they will die ggplot(data=Whickham, aes(x=smoker, y=outcome, color=outcome)) + geom_bar(stat="identity")



Knit, commit, and push to github.

```
Whickham %>%
  count(smoker, outcome)
##
     smoker outcome
## 1
         No
              Alive 502
## 2
        No
               Dead 230
## 3
        Yes
              Alive 443
## 4
        Yes
               Dead 139
502+230
## [1] 732
230/732
## [1] 0.3142077
Whickham <- Whickham%>% mutate (age_cat = case_when (age <= 44 \sim "18-44", age > 44. & age <= 64 \sim "45-6"
  7.
ggplot(data=Whickham, aes(x=outcome, y=smoker,color=smoker, fill=age_cat)) + geom_bar(stat="identity")
```



Knit, commit, and push to github.