lab-07-simpsons.Rmd

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Packages

```
library(tidyverse)
library(mosaicData)
```

Exercises

1.

?Whickham

Your answer:Observational, because we just watching the people and write the notes also we didn's Involving in any situation or controlling any variables.

2.

nrow(Whickham)

[1] 1314

Your answer; 1314, represent recorded participants' age, smoking status at baseline

3.

ncol(Whickham)

[1] 3

Your answer: 3,

class(Whickham\$age)

[1] "integer"

class(Whickham\$smoker)

[1] "factor"

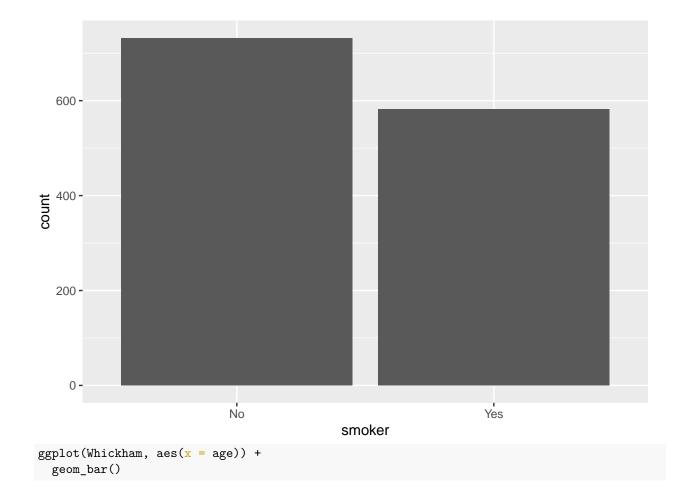
class(Whickham\$outcome)

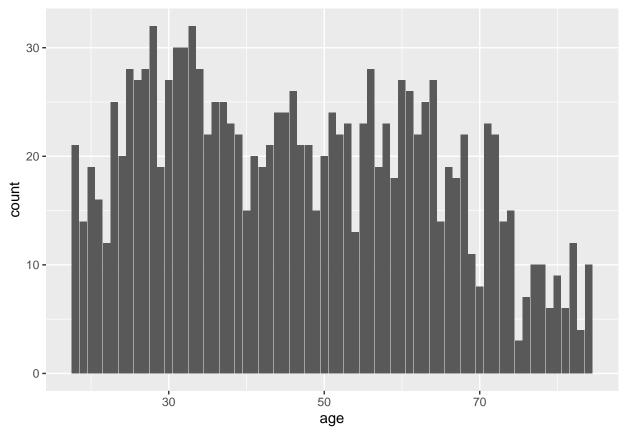
[1] "factor"

Your answer: age (Numerical), smoker and outcome are categorical age(integer), smoker and outcome are (factor)

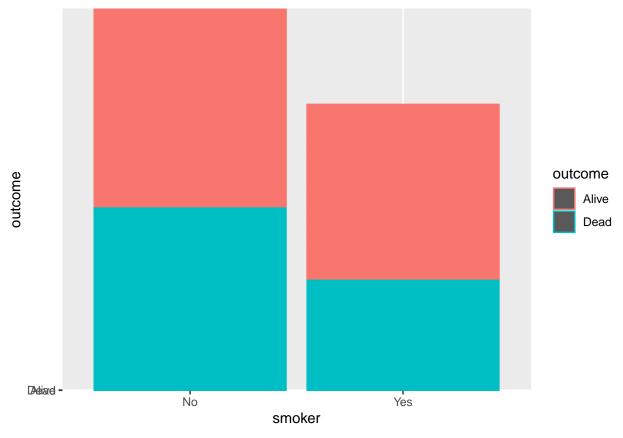
```
ggplot(Whickham, aes(x = outcome)) +
  geom_bar()
```







4. expect the health will be worser and may be the person will died after while, if he keeping 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.