lab-07-simpsons.Rmd

rana alshammari/2201000999

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Packages

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

Exercises

1.

?Whickham

Your answer: he description states that is based on age, smoking, and mortality, which are all observable events and not produced via experiments. 2.

nrow(Whickham)

[1] 1314

Your answer; the are 1314 observations. as we knaw evrey row observation

3.

```
names (Whickham)
```

```
## [1] "outcome" "smoker" "age"
```

Your answer:

obs:1314. Represent outcome , smoker and age $\,$

unique(Whickham\$outcome)

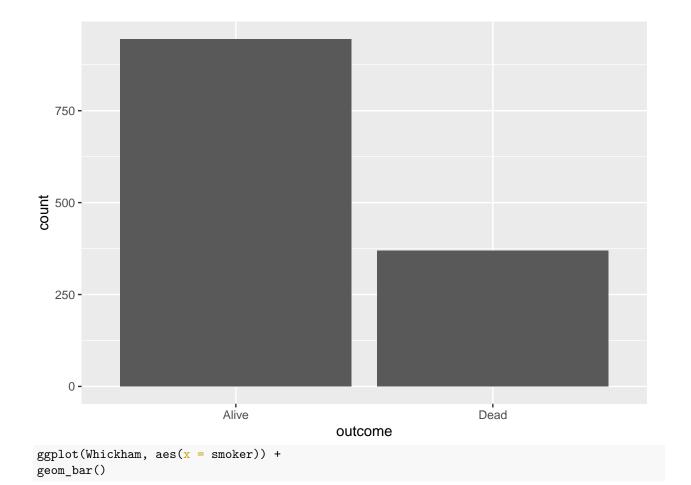
```
## [1] Alive Dead
## Levels: Alive Dead
unique(Whickham$smoker)
```

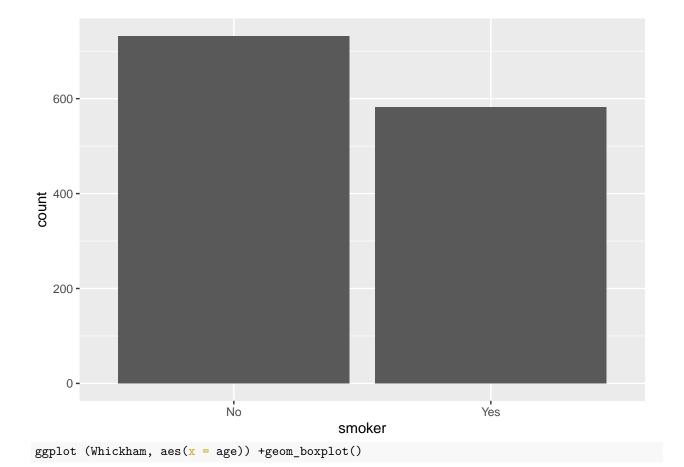
```
## [1] Yes No
## Levels: No Yes
unique(Whickham$ega)
```

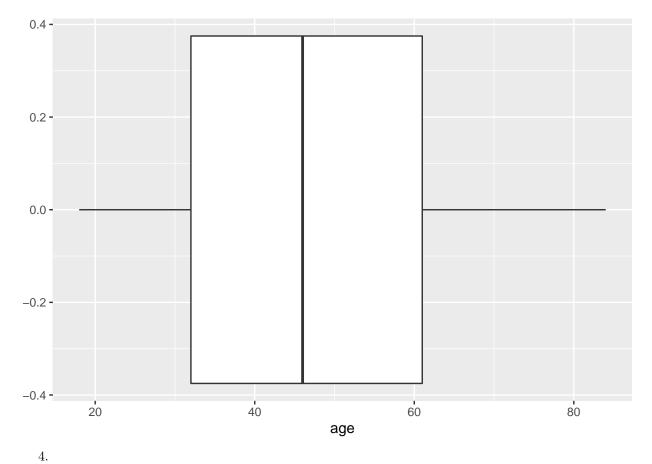
NULL

Your answer: Using the unique() function on the 3 variables we could see that "outcome" only Dead value, which makes it categorical non-ordinal. "smoker" only takes Yes or No, makes it categorical non-ordinal. Age is numerical continuous data

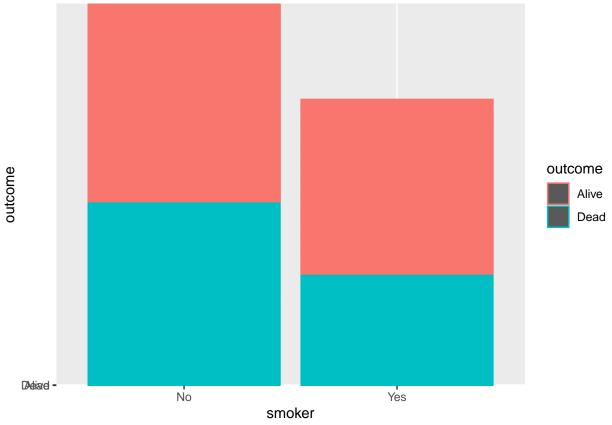
```
ggplot(Whickham, aes(x = outcome)) +
geom_bar()
```







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



Smokers if they continue to smoke harm them and they die Knit, commit, and push to github.

5.

```
Whickham %>% count(smoker, outcome)
```

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

Knit, commit, and push to github.