lab-07-simpsons.Rmd

wejdan awad.

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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't 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, age (Numerical), smoker and outcome are categorical age (anteger), smoker and outcome are (factor),

class(Whickham\$age)

[1] "integer"

class(Whickham\$smoker)

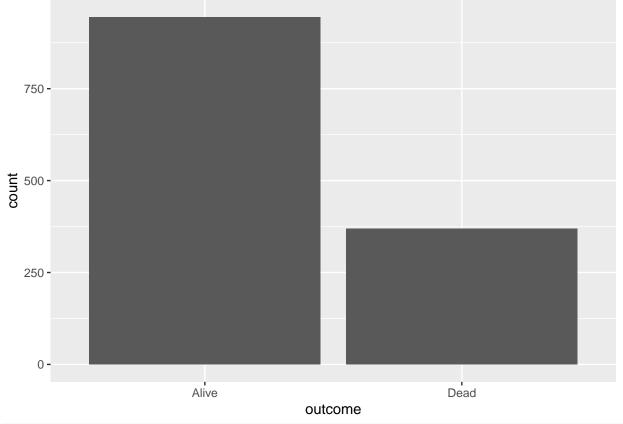
[1] "factor"

class(Whickham\$outcome)

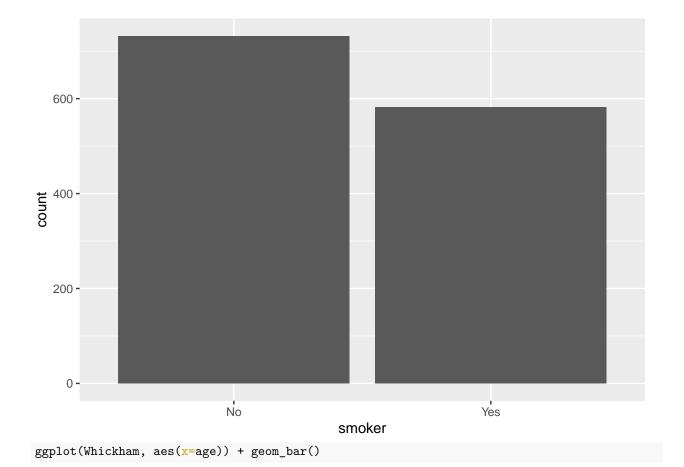
[1] "factor"

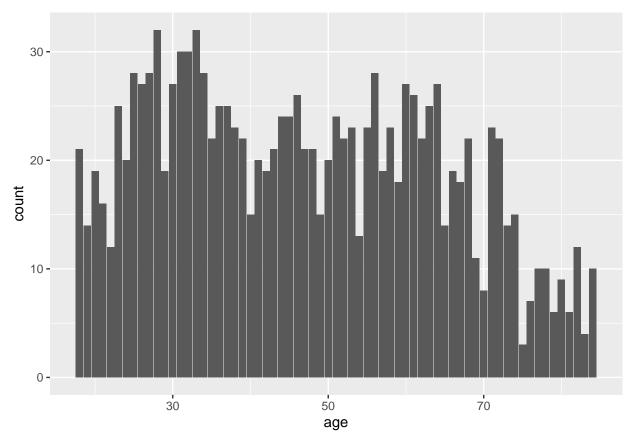
Your answer: age (Numerical) , smoker and outcome are categorical age (integer) , smoker and outcome are (factor)

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

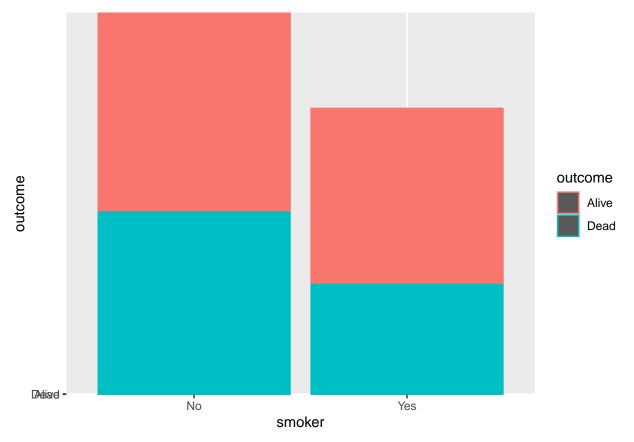


ggplot(Whickham, aes(x=smoker)) + geom_bar()





4. I expect the health will be worser and may be the person will be 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
## 1
         No
              Alive 502
## 2
         No
               Dead 230
## 3
              Alive 443
        Yes
## 4
        Yes
               Dead 139
502+230
## [1] 732
230/732
```

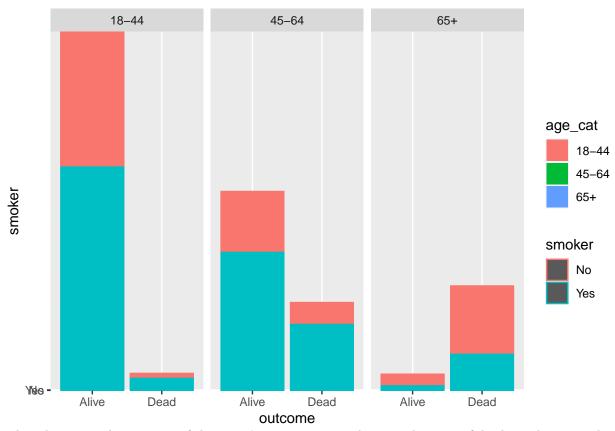
[1] 0.3142077

smoker(732) NO 31,4 (Dead) « (68.6)Alive smoker(582) yes 23,8 (Dead) « (76.2)Alive i does not expected this result because now the most died people not smoker(682) yes 23,8 (Dead) « (76.2)Alive i does not expected this result because now the most died people not smoker(682) yes 23,8 (Dead) « (76.2)Alive i does not expected this result because now the most died people not smoker(682) yes 23,8 (Dead) « (76.2)Alive i does not expected this result because now the most died people not smoker(682) yes 23,8 (Dead) « (76.2)Alive i does not expected this result because now the most died people not smoker(682) yes 23,8 (Dead) » (76.2)Alive i does not expected this result because now the most died people not smoker(682) yes 23,8 (Dead) » (76.2)Alive i does not expected this result because now the most died people not smoker(682) yes 23,8 (Dead) » (76.2)Alive i does not expected this result because now the most died people not smoker(682) yes 23,8 (Dead) » (76.2)Alive i does not expected this result because smoker(682) yes 24,8 (Dead) » (76.2)Alive i does not expected this result is the most died people not smoker(682) yes 24,8 (Dead) » (76.2)Alive i does not expected this result is the most died people not smoker(682) yes 24,8 (Dead) » (76.2)Alive i does not expected this result is the most died people not smoker(682) yes 24,8 (Dead) » (76.2)Alive i does not expected this result is the most died people not smoker(682) yes 24,8 (Dead) » (76.2)Alive i does not expected this result is the most died people not smoker(682) yes 24,8 (Dead) » (76.2)Alive i does not expected this result is the most died people not smoker(682) yes 24,8 (Dead) » (76.2)Alive i does not expected this result is smoker(682) yes 24,8 (Dead) » (76.2)Alive i does not expected this result is smoker(682) yes 24.

```
Whickham <- Whickham%>% mutate (age_cat = case_when (age <= 44 ~ "18-44", age > 44. & age <= 64 ~ "45-7.

7.

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



what changes > the category of the age it's appear to us and we see the most of dead people not smoker in age (65+).. but in age (45-64) and (18-44) the most dead people are smoker that is relationship between the smoking and helath not clearly but that helath will be change to Morst if you be smoker

Knit, commit, and push to github.