lab-07-simpsons.Rmd

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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)
```

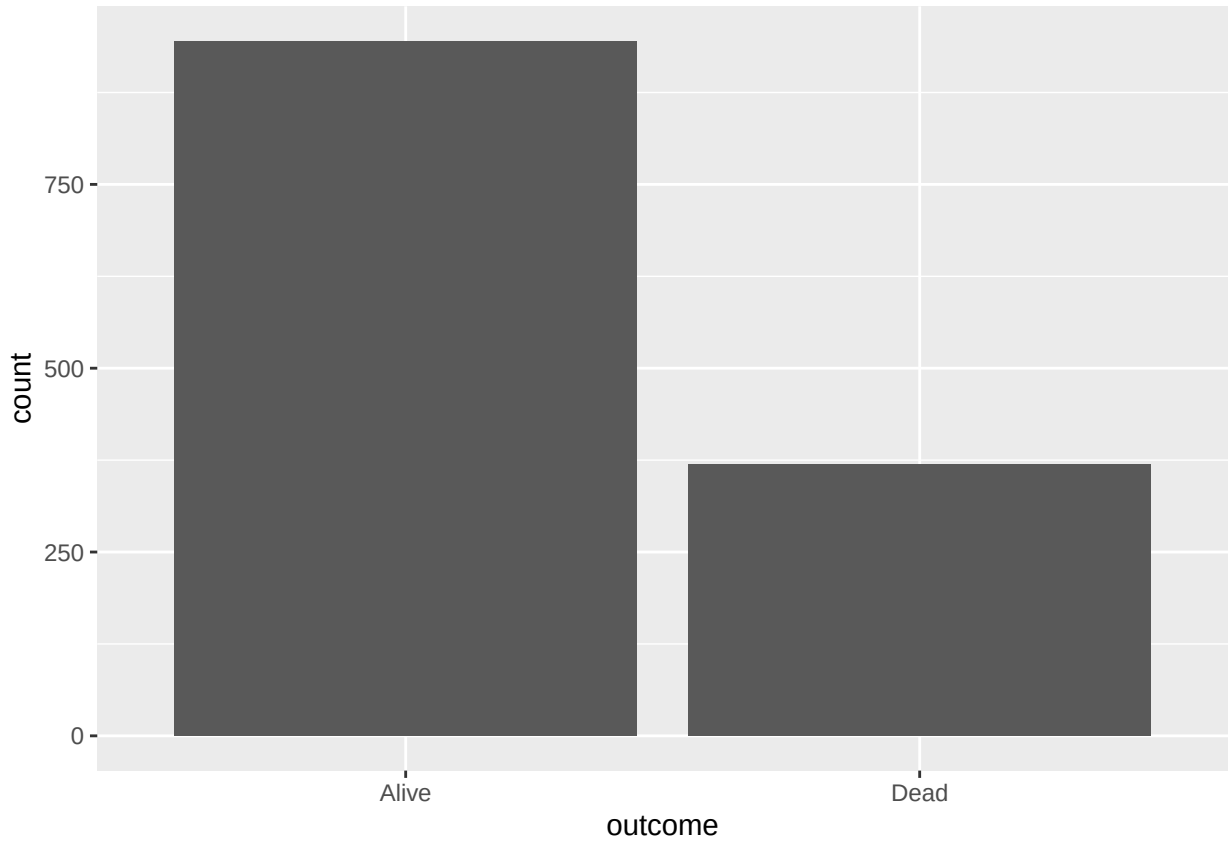
```
## [1] Yes No
## Levels: No Yes
```

```
unique(Whickham$ega)
```

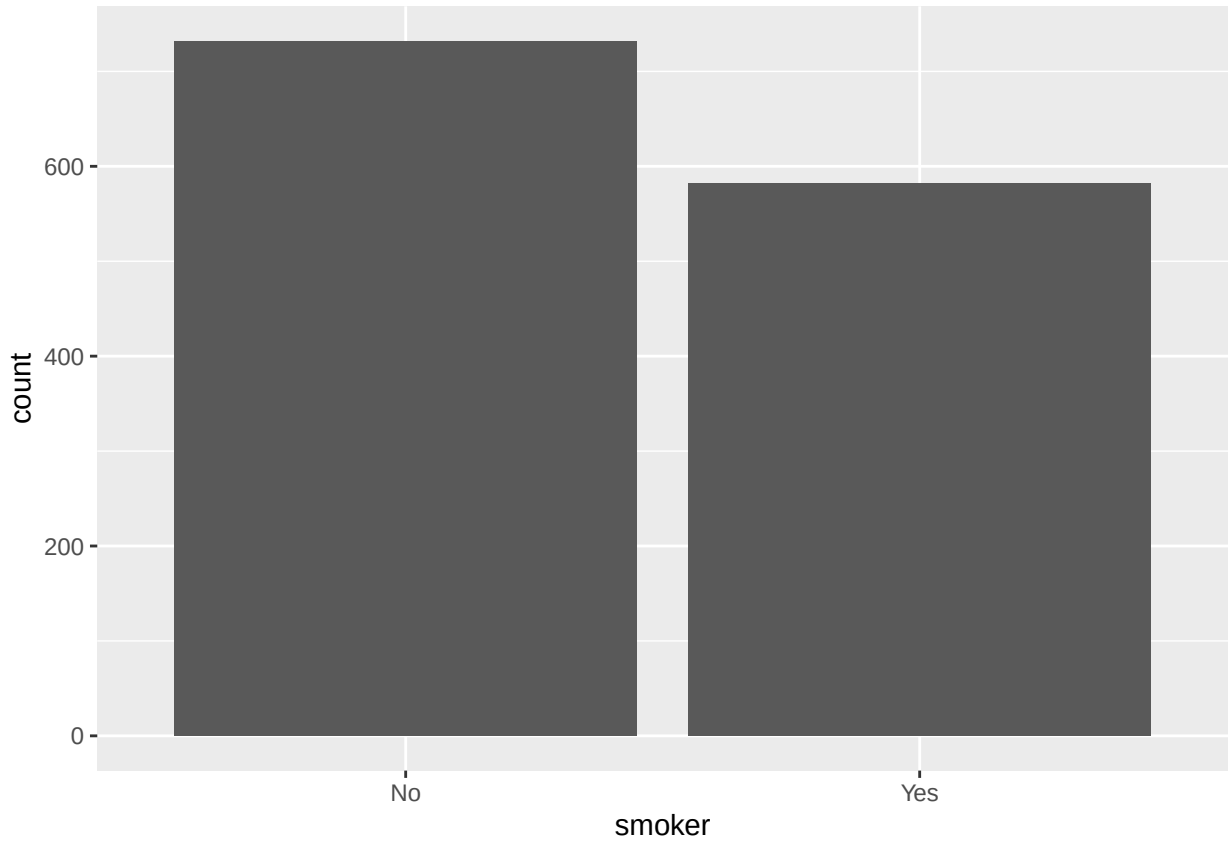
```
## NULL
```

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 continous data

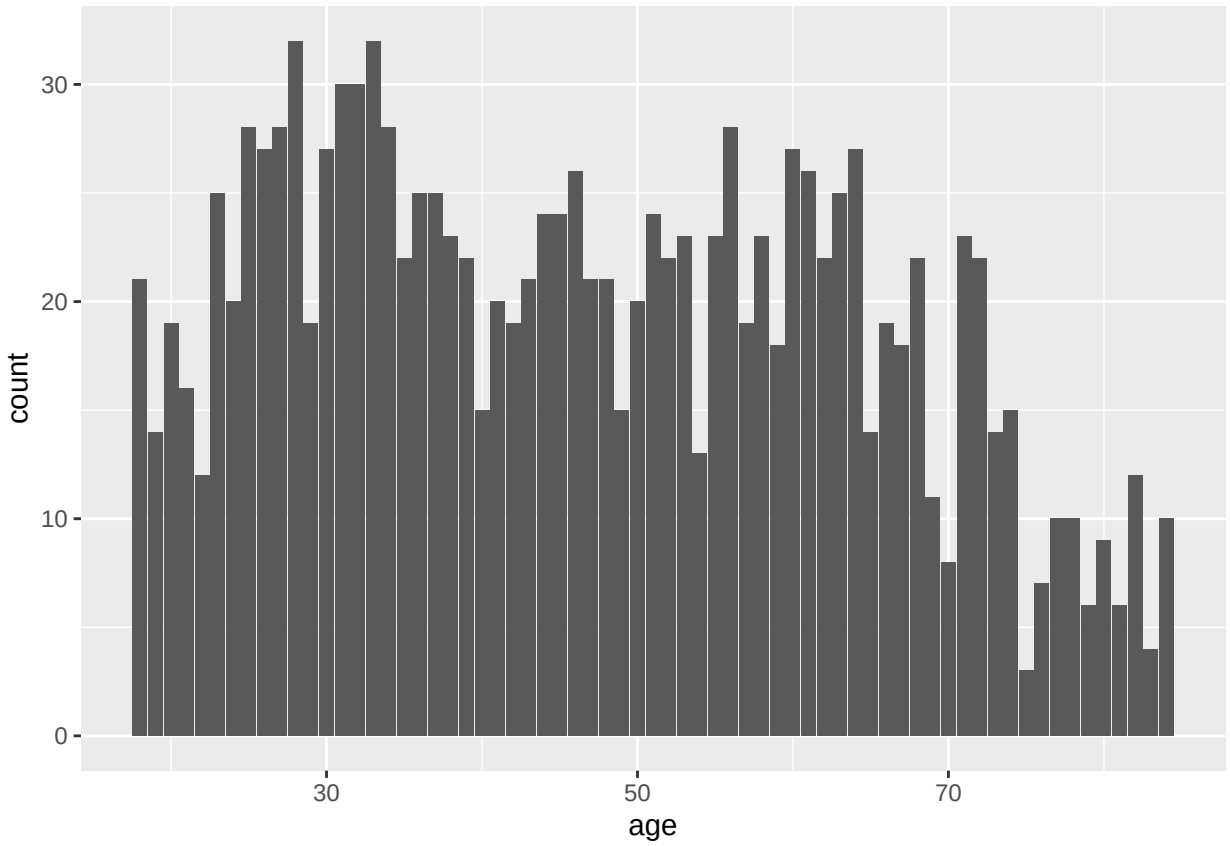
```
ggplot(Whickham, aes(x = outcome)) +
geom_bar()
```




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




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



4.

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.