

lab-07-simpsons.Rmd

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Packages

```
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" "age"
```

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: 3 var , “outcome” “smoker” “age”

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



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

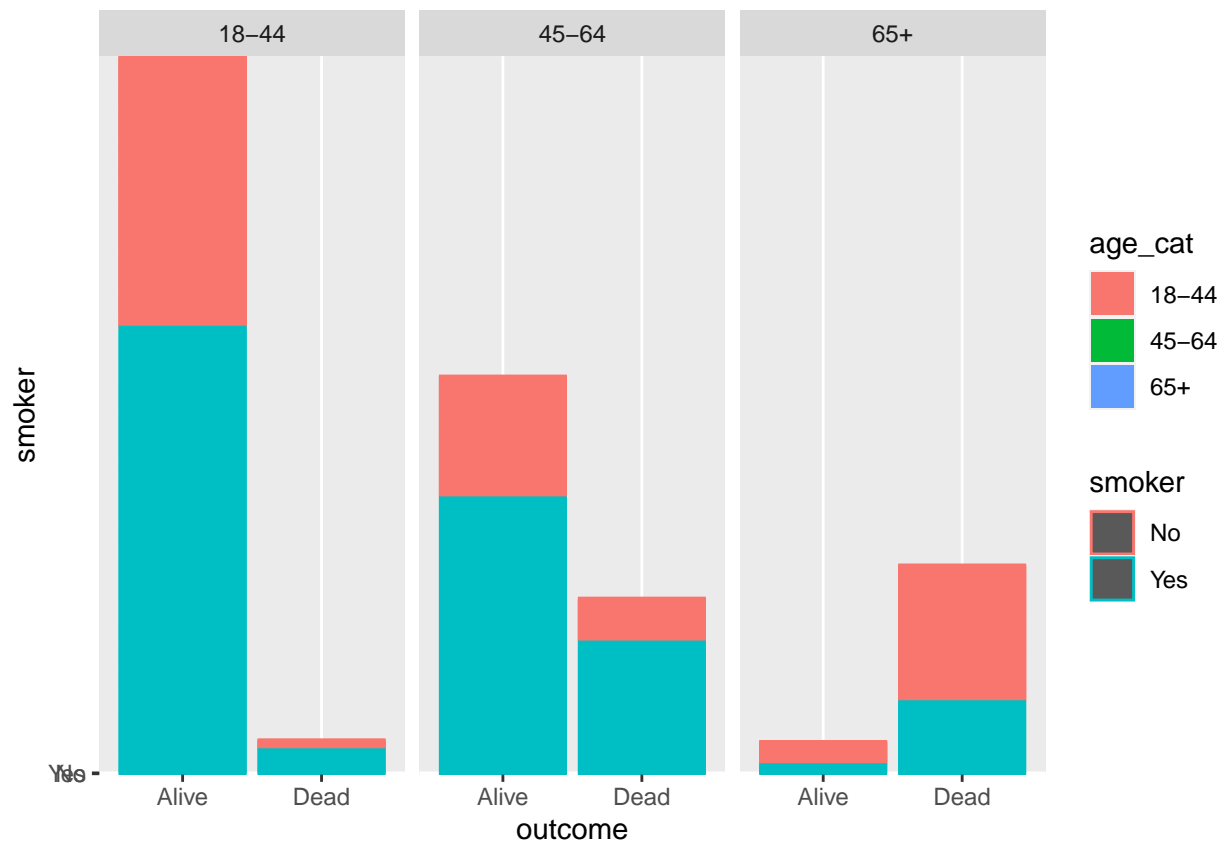


```
ggplot(Whickham, aes(x = age)) +  
  geom_boxplot()
```



4.i expect that the health will be worse after a period of time and that it may cause the person to die if he continues to smoke

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

Knit, commit, and push to github.