Duncan McKinnon

West

W 1

 $\mathbf{Q}\mathbf{A}$

Load Packages and Data

```
suppressPackageStartupMessages({
  library(tidyverse)
  library(okcupiddata)
})
```

1).

```
# get top ten cities by size

locations <- profiles %>%
   group_by(location) %>%
   summarize(num = n()) %>%
   separate(location, into = c('city', 'state'), sep = ', ', remove = TRUE) %>%
   arrange(desc(num))

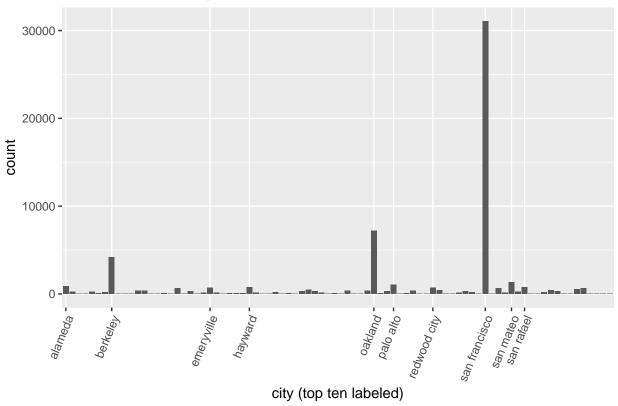
## Warning: Expected 2 pieces. Additional pieces discarded in 1 rows [191].
```

```
top_ten <- locations$city[1:10]
top_ten</pre>
```

```
## [1] "san francisco" "oakland" "berkeley" "san mateo"
## [5] "palo alto" "alameda" "san rafael" "hayward"
## [9] "emeryville" "redwood city"
```

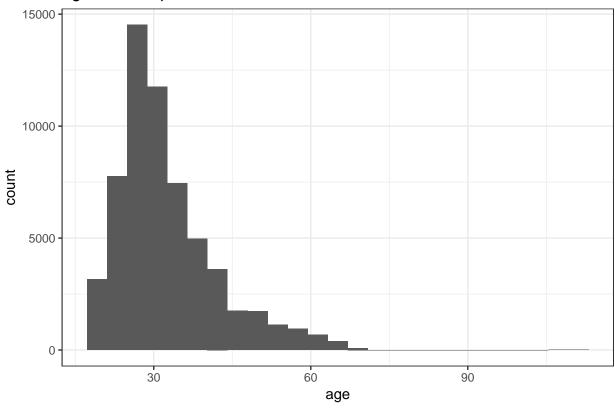
2).

distribution of okcupid data users



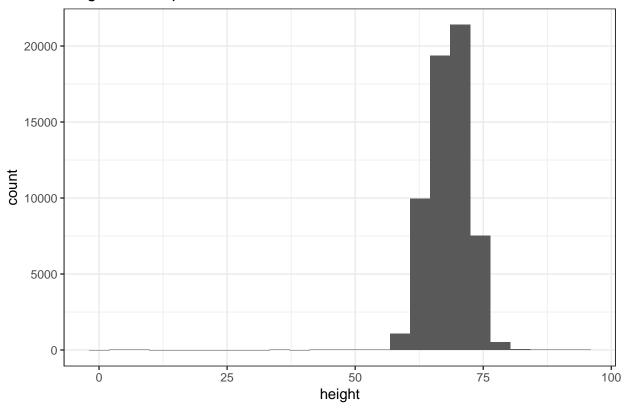
3).

ages of okcupid data users



4).

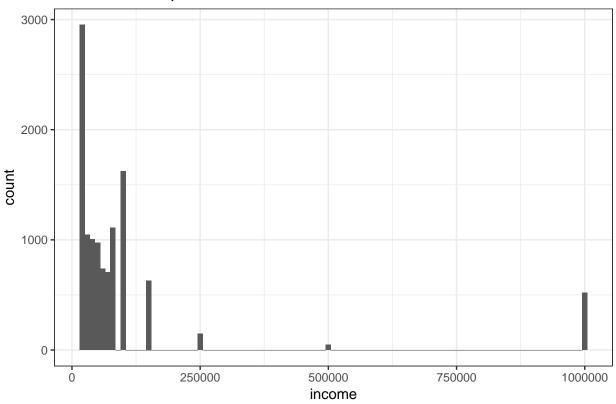
height of okcupid data users



5).

Height in this dataset is very normally distributed with a mean around 72 inches (6 ft). While this mean is above what would be expected for a mixed population of men and women we could probably expect people to give optimistic heights up to at least 6ft.

income of okcupid data users



6).

Income was pretty sparse in this dataset, with the majority of participants likely opting out. The distribution of incomes is very right skewed, with a high concentration between 20k and 100k and then smaller peaks around 250k, 500k. The right skew is again effected by the hard lower limit of \$0 income. The maximum entry of 1m is a lot more frequent than 250k or 500k, so it seems probable that there was also a hard upper limit in the question, or even a set of categories to choose from.