

# Alcohol Consumption

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## Data

This is an assignment that utilizes [fivethirtyeight.com](https://fivethirtyeight.com)'s dataset on alcohol consumption in the world. This data is taken from the World Health Organization.

```
### Load the raw data from fivethirtyeight's Github
Drinks <- read.csv('https://raw.githubusercontent.com/fivethirtyeight/data/master/alcohol-consumption/d

### A simple summary of descriptive statistics of all the dataset
summary(Drinks)
```

```
##           country  beer_servings  spirit_servings  wine_servings
## Afghanistan    : 1   Min.      : 0.0   Min.      : 0.00   Min.      : 0.00
## Albania         : 1   1st Qu.: 20.0   1st Qu.:  4.00   1st Qu.:  1.00
## Algeria         : 1   Median : 76.0   Median : 56.00   Median :  8.00
## Andorra         : 1   Mean    :106.2   Mean    : 80.99   Mean    : 49.45
## Angola          : 1   3rd Qu.:188.0   3rd Qu.:128.00   3rd Qu.: 59.00
## Antigua & Barbuda: 1   Max.    :376.0   Max.    :438.00   Max.    :370.00
## (Other)         :187
## total_litres_of_pure_alcohol
## Min.      : 0.000
## 1st Qu.: 1.300
## Median : 4.200
## Mean     : 4.717
## 3rd Qu.: 7.200
## Max.     :14.400
##
```

```
### The means of all the variables in the dataset
for (i in 1:length(names(Drinks))) {
  Drinks[, i] %>%
    mean() %>%
    round(digits = 1) %>%
    paste(names(Drinks)[i], ., '\n') %>% cat() }
```

```
## country NA
## beer_servings 106.2
## spirit_servings 81
## wine_servings 49.5
## total_litres_of_pure_alcohol 4.7
```

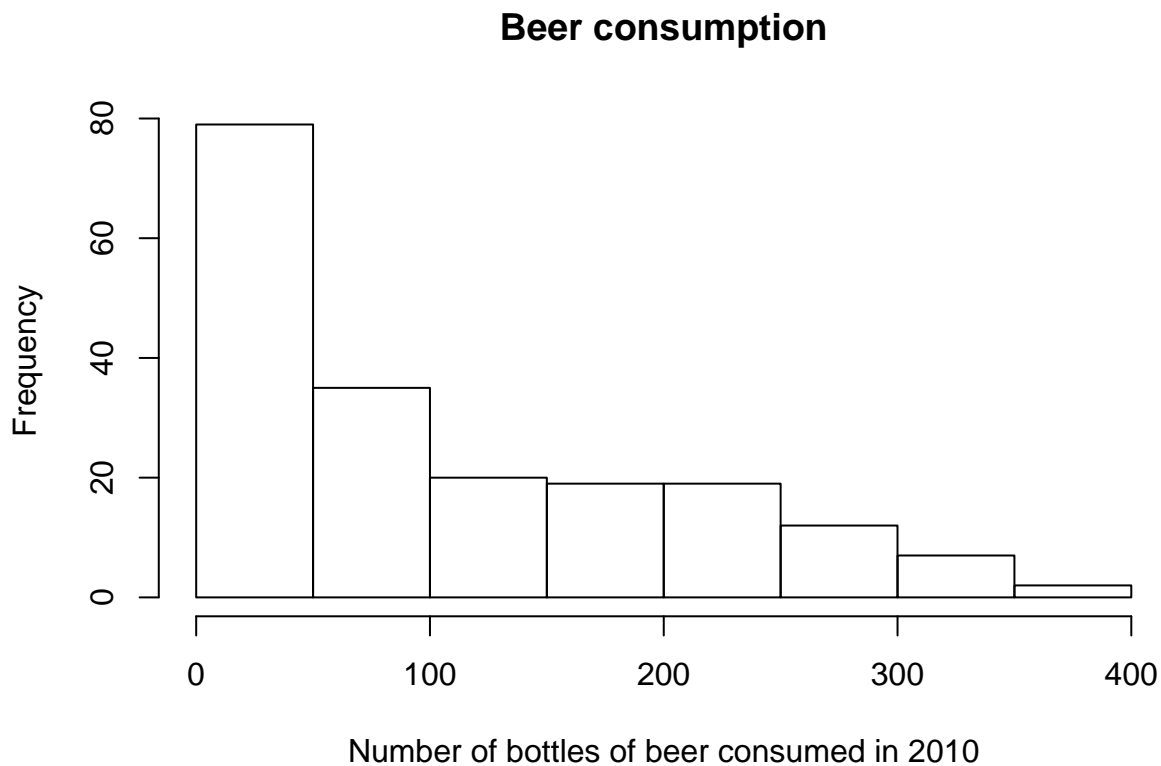
```
### Std deviation of all the variables
for (i in 1:length(names(Drinks))) {
  Drinks[, i] %>%
    sd() %>%
    round(digits = 1) %>%
    paste(names(Drinks)[i], ., '\n') %>% cat() }
```

```
## country 55.9
## beer_servings 101.1
## spirit_servings 88.3
## wine_servings 79.7
## total_litres_of_pure_alcohol 3.8
```

## Histograms

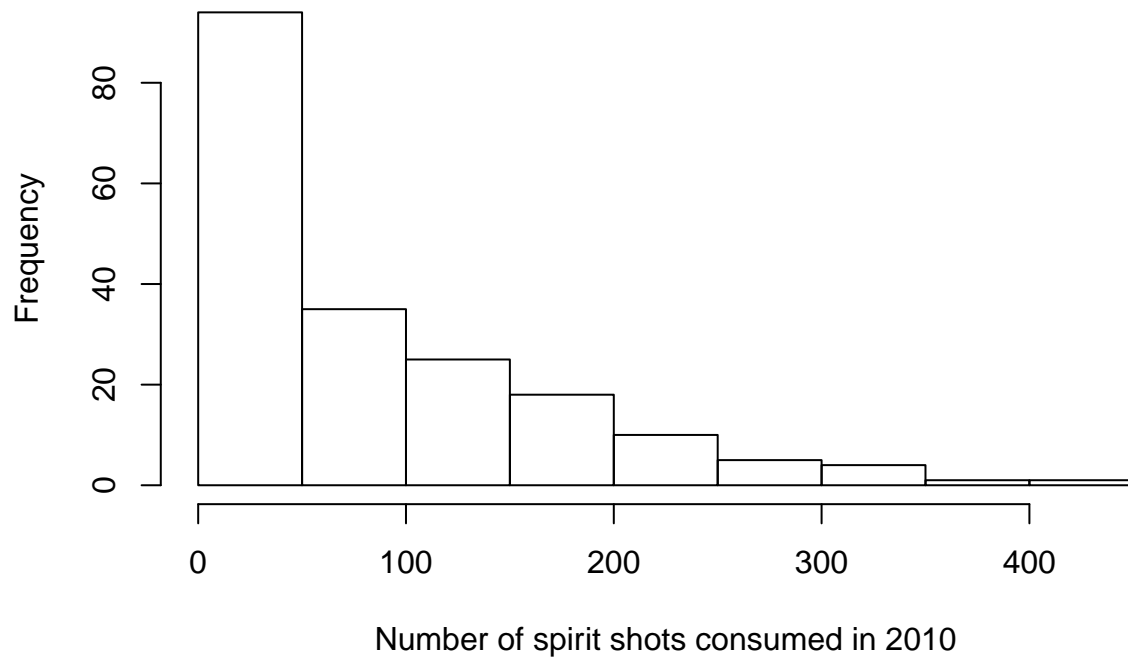
Histograms are really usefull to look at the distribution of the data

```
### Distribution of beer consumption
hist(Drinks$beer_servings,
     main = 'Beer consumption',
     xlab = 'Number of bottles of beer consumed in 2010')
```



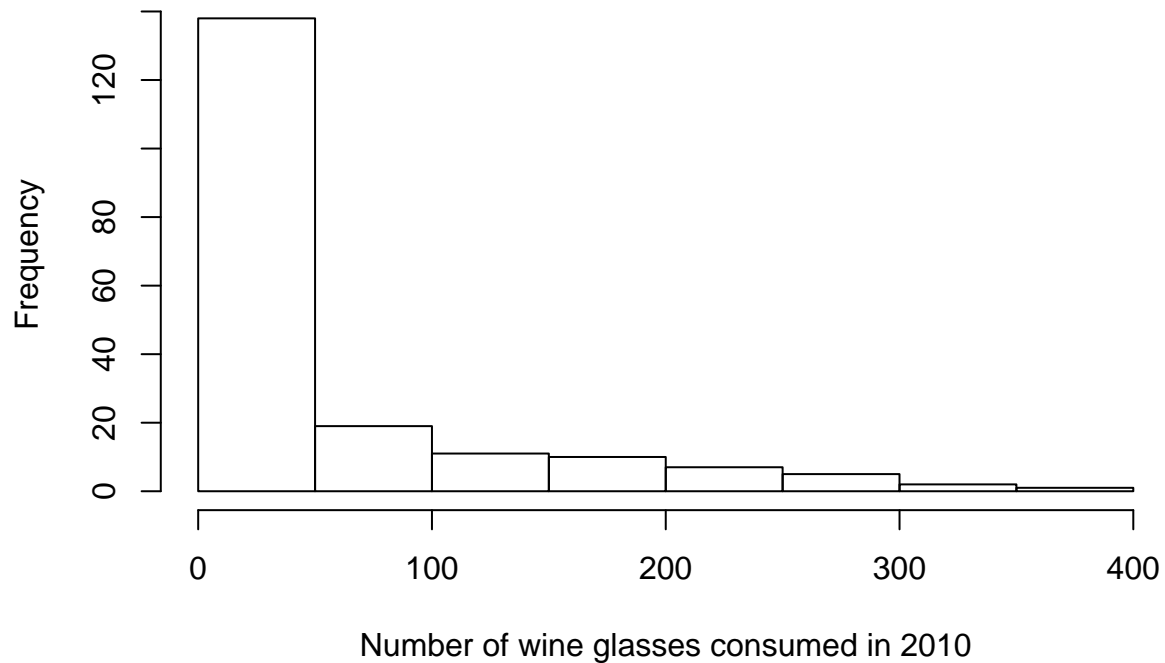
```
### Distribution of spirit consumption
hist(Drinks$spirit_servings,
     main = 'Spirit consumption',
     xlab = 'Number of spirit shots consumed in 2010')
```

## Spirit consumption



```
### Distribution of wine consumption
hist(Drinks$wine_servings,
     main = 'Wine consumption',
     xlab = 'Number of wine glasses consumed in 2010')
```

## Wine consumption



## Transformation of the data