Report on Gun Murders

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Introduction

This is a report on 2010 gun murder rates obtained from FBI reports. The original data was obtained from this Wikipedia page.

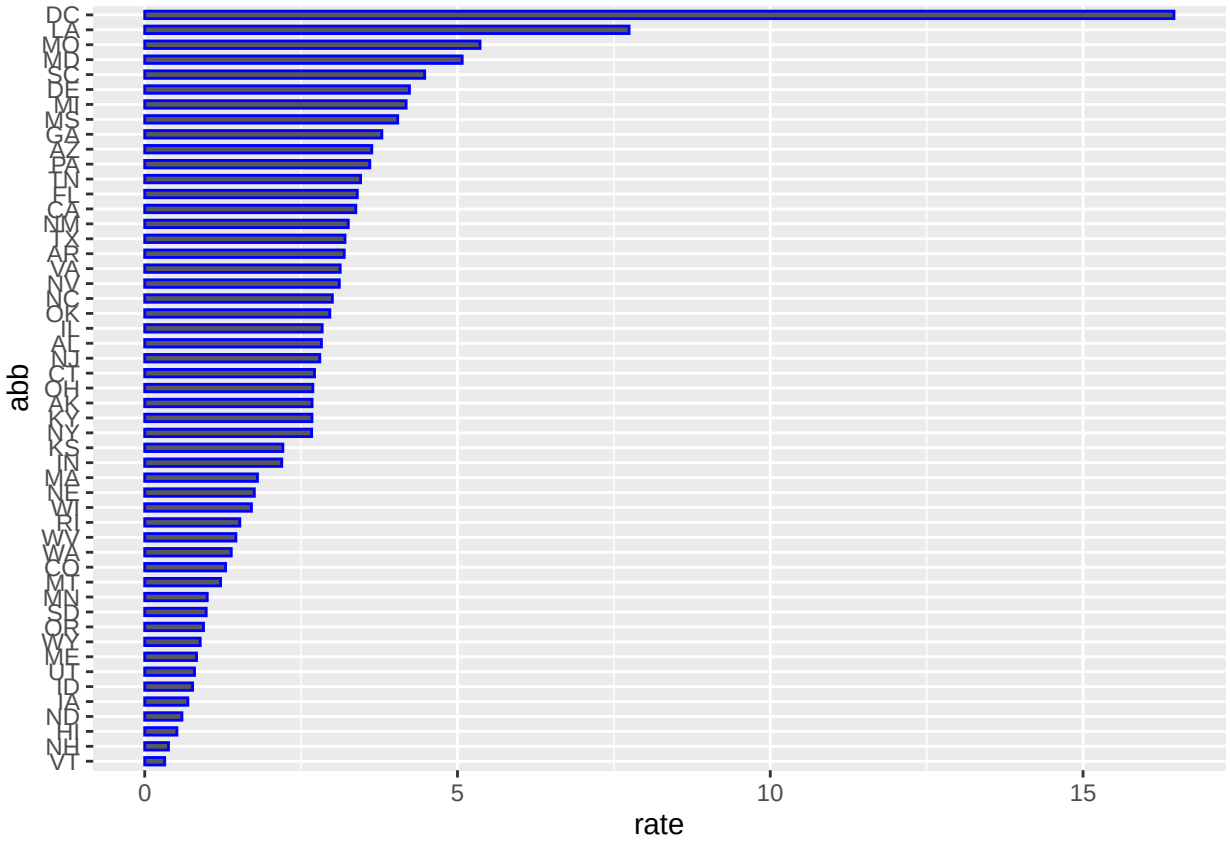
We are going to use the following library:

```
## Warning: package 'tidyverse' was built under R version 3.6.3

## -- Attaching packages ---------------------------- tidyverse 1.3.0 --

## v ggplot2 3.3.2     v purrr   0.3.4
## v tibble  3.0.3     v dplyr   1.0.2
## v tidyr   1.1.1     v stringr 1.4.0
## v readr   1.3.1     v forcats 0.5.0

## Warning: package 'ggplot2' was built under R version 3.6.3

## Warning: package 'tibble' was built under R version 3.6.3

## Warning: package 'tidyr' was built under R version 3.6.3

## Warning: package 'readr' was built under R version 3.6.3

## Warning: package 'purrr' was built under R version 3.6.3

## Warning: package 'dplyr' was built under R version 3.6.3

## Warning: package 'stringr' was built under R version 3.6.3

## Warning: package 'forcats' was built under R version 3.6.3

## -- Conflicts ------------------------------- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()    masks stats::lag()

## Warning: package 'dslabs' was built under R version 3.6.3
```

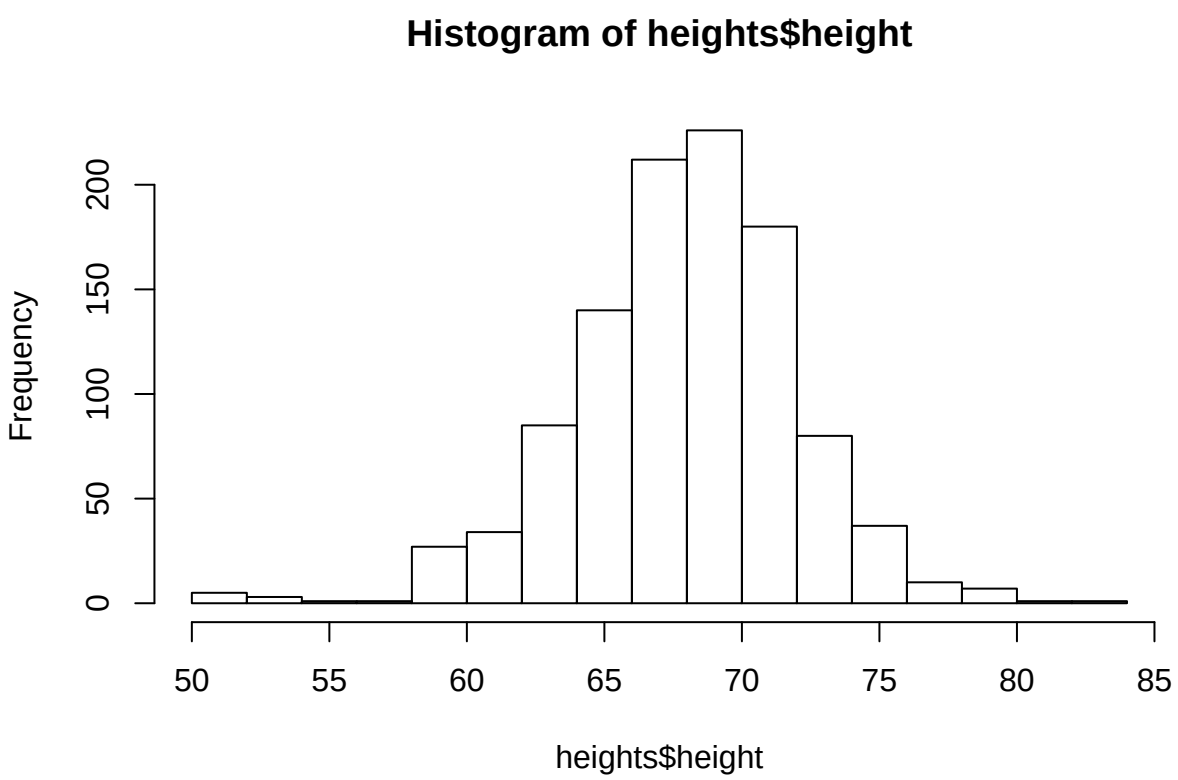
and load the data we already wrangled:

Murder rate by state

We note the large state to state variability by generating a barplot showing the murder rate by state:




```
hist(heights$height)
```



Here 1050 heights are compared