Report on Gun Murders

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2023-11-13

Introduction

This is a report on 2010 gun murder rates obtained from FBI Reports. The original Data was obtained from this Wikipedia Page.

To work with it, we have used the library *Tidyverse*, which we have imported in the report already.

The Dataset is already wrangled and saved in a file named: "murders.rda". We load the dataset with the following code

```
load("rda/murders.rda")
```

The summary of the imported dataset is given as:

```
##     state              abb                         region      population
##  Length:51          Length:51          North Central:12    Min.   :  563626
##  Class :character   Class :character   Northeast    : 9    1st Qu.: 1696962
##  Mode  :character   Mode  :character   South        :17    Median : 4339367
##                                        West         :13    Mean   : 6075769
##                                                            3rd Qu.: 6636084
##                                                            Max.   :37253956
##      total            rate
##  Min.   :   2.0   Min.   : 0.3196
##  1st Qu.:  24.5   1st Qu.: 1.2526
##  Median :  97.0   Median : 2.6871
##  Mean   : 184.4   Mean   : 2.7791
##  3rd Qu.: 268.0   3rd Qu.: 3.3861
##  Max.   :1257.0   Max.   :16.4528
```

Murder Rate by State

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