# HalefCaetano_7.3_RMarkdown_Images and Tables.RMD

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## 1.1 Create Tables

### *Original data

In Table 1.1, we see the first 10 rows of the Crmate Rate data".

Table 1: Table 1.1: The first 10 rows of the Crmate Rate data

| State | Year | CrimeRate |
|---|---|---|
| Alabama | 2007 | 448.0 |
| Alabama | 2008 | 452.8 |
| Alabama | 2009 | 450.1 |
| Alabama | 2010 | 377.8 |
| Alabama | 2011 | 419.8 |
| Alabama | 2012 | 449.9 |
| Alabama | 2013 | 431.0 |
| Alabama | 2014 | 427.4 |
| Alabama | 2015 | 473.0 |
| Alabama | 2016 | 532.3 |

### *Satics data

In Table 1.2, we see the basic statistical values of crime rates over USA for each year.

Table 1.2: A Statistics table

Table 2: Table 1.2: A Statistics table

| Year | Mean_CrimeRate | Max_CrimeRate | Min_CrimeRate |
|---|---|---|---|
| 2007 | 407.460 | 788.3 | 118.0 |
| 2008 | 399.982 | 729.7 | 117.5 |
| 2009 | 387.688 | 705.2 | 119.9 |
| 2010 | 365.590 | 660.6 | 122.0 |
| 2011 | 354.274 | 610.1 | 123.3 |
| 2012 | 353.826 | 643.6 | 122.7 |
| 2013 | 351.832 | 638.7 | 123.6 |
| 2014 | 346.806 | 635.8 | 99.3 |
| 2015 | 363.224 | 730.8 | 119.3 |
| 2016 | 378.038 | 804.2 | 123.8 |
| 2017 | 378.054 | 856.7 | 120.6 |
| 2018 | 365.618 | 885.0 | 112.1 |

## 1.2 Create plots

### *A histogram plot

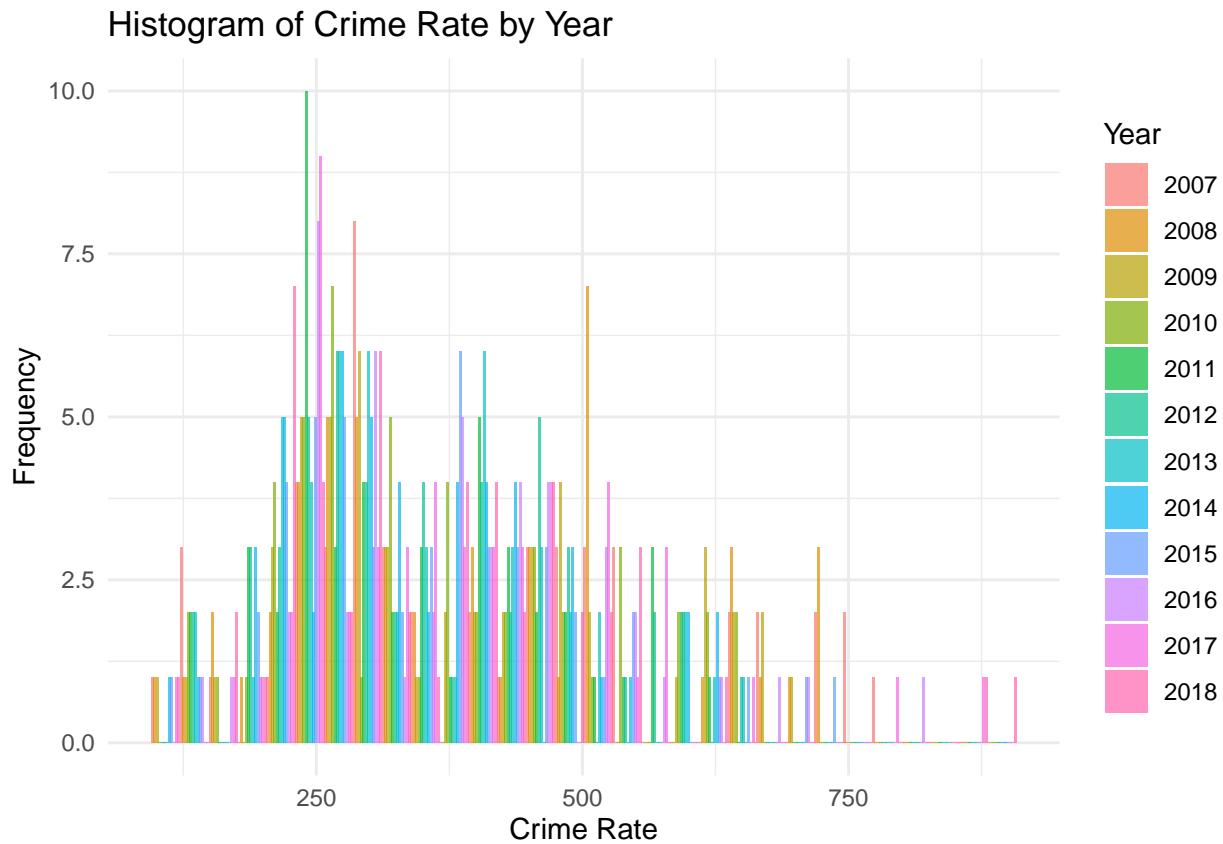In Figure 1.1, we can see the grouped histogram for each year.



Figure 1.1: A histogram of Crime Rate over USA

### *A scatter plot
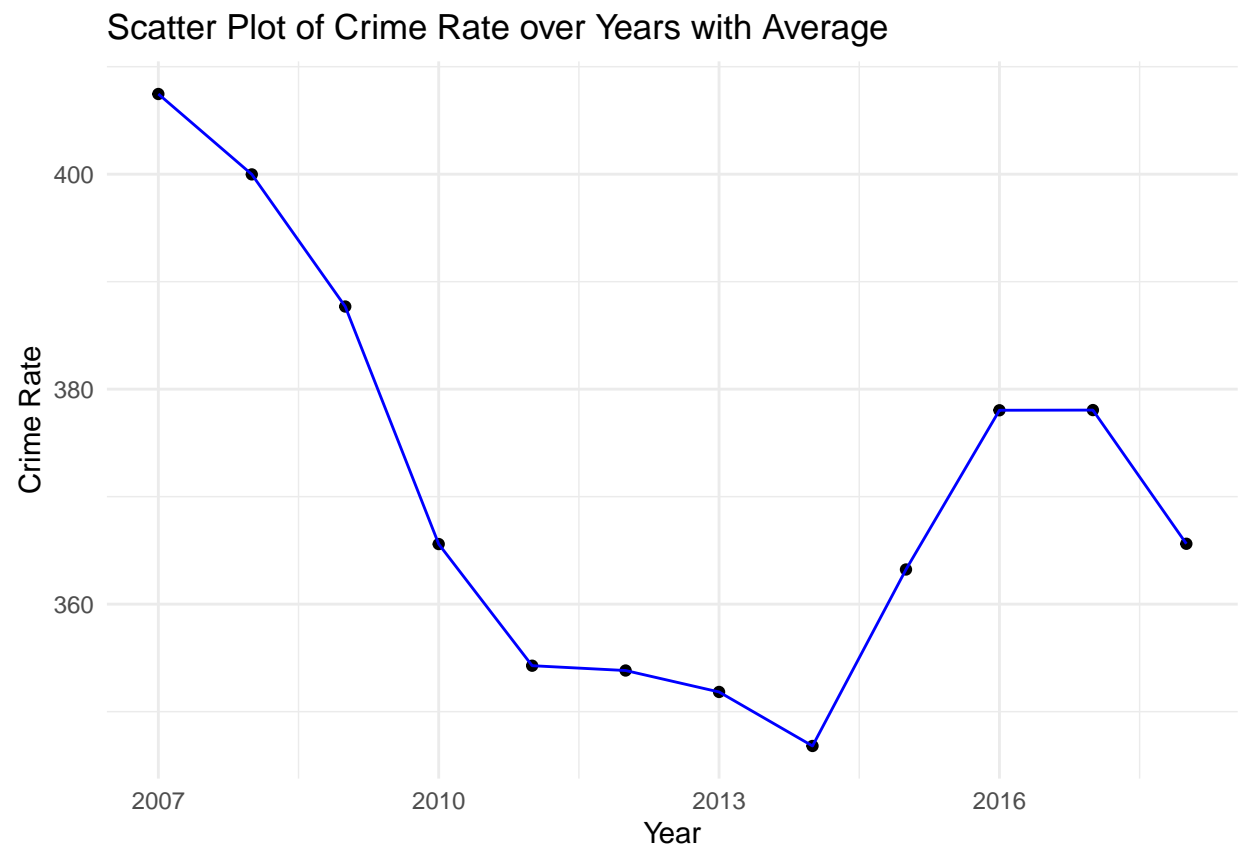
In Figure 1.2, we can see the average crime rate changes along with years.

Figure 1.2: A scatter plot between Crime Rate with Year