

R Plots

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R Plots

```
## Loading required package: ggplot2
```

```
##  
## Attaching package: 'plotly'
```

```
## The following object is masked from 'package:ggplot2':  
##  
##     last_plot
```

```
## The following object is masked from 'package:stats':  
##  
##     filter
```

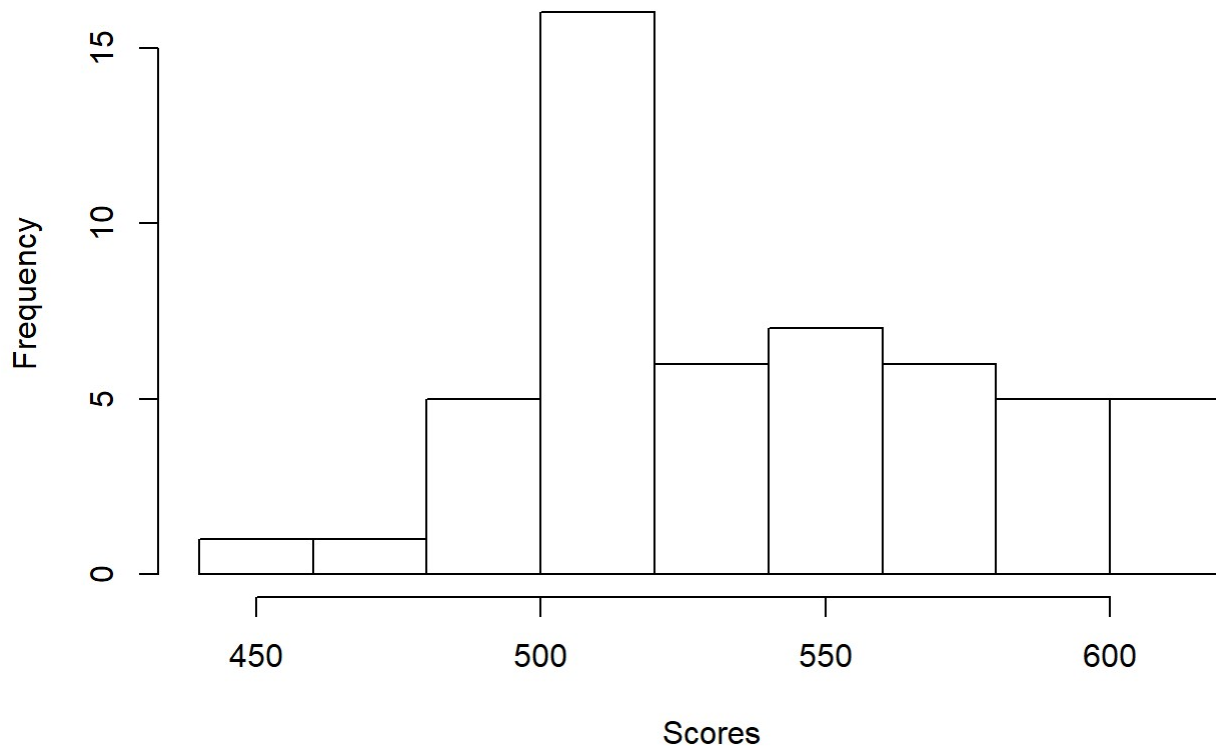
```
## The following object is masked from 'package:graphics':  
##  
##     layout
```

```
##           state reading math writing percent_graduates_sat pupil_staff_ratio  
## 1 United States      501  515    493                46          7.9  
## 2      Alabama      557  552    549                 7          6.7  
## 3        Alaska      520  516    492                46          7.9  
## 4        Arizona      516  521    497                26         10.4  
## 5        Arkansas      572  572    556                 5          6.8  
## 6    California      500  513    498                49         10.9  
## dropout_rate  
## 1          4.4  
## 2          2.3  
## 3          7.3  
## 4          7.6  
## 5          4.6  
## 6          5.5
```

```
##          Country    X1960  X1961  X1962  X1963  X1964    X1965  X1966
## 1          Aruba 36.40000 35.179 33.863 32.459 30.994 29.51300 28.069
## 2    Afghanistan 52.20100 52.206 52.208 52.204 52.192 52.16800 52.130
## 3          Angola 54.43200 54.394 54.317 54.199 54.040 53.83600 53.585
## 4          Albania 40.88600 40.312 39.604 38.792 37.913 37.00800 36.112
## 5 Netherlands Antilles 32.32100 30.987 29.618 28.229 26.849 25.51800 24.280
## 6      Arab World 47.61122      NA      NA      NA      NA 46.57288      NA
##    X1967  X1968  X1969    X1970  X1971  X1972  X1973  X1974    X1975  X1976
## 1 26.721 25.518 24.492 23.66900 23.058 22.627 22.342 22.177 22.1110 22.125
## 2 52.076 52.006 51.920 51.81600 51.691 51.548 51.395 51.239 51.0920 50.967
## 3 53.296 52.984 52.668 52.37600 52.137 51.967 51.875 51.861 51.9200 52.033
## 4 35.245 34.421 33.655 32.94700 32.279 31.630 30.985 30.345 29.7230 29.138
## 5 23.173 22.230 21.472 20.92500 20.605 20.484 20.517 20.664 20.8640 21.055
## 6      NA      NA      NA 45.16097      NA      NA      NA      NA 43.6375      NA
##    X1977  X1978  X1979    X1980  X1981  X1982    X1983  X1984    X1985
## 1 22.192 22.281 22.362 22.40600 22.3900 22.31300 22.17200 21.9580 21.66800
## 2 50.871 50.810 50.786 50.79500 50.8330 50.88800 50.95100 51.0160 51.08400
## 3 52.172 52.314 52.444 52.55400 52.6440 52.72100 52.78900 52.8410 52.88000
## 4 28.606 28.139 27.736 27.39600 27.1140 26.87000 26.64400 26.4170 26.17200
## 5 21.190 21.238 21.178 21.00800 20.7460 20.44200 20.13800 19.8600 19.64100
## 6      NA      NA      NA 42.05776 41.9228 41.18851 40.99207 40.4664 39.55352
##    X1986  X1987  X1988    X1989  X1990    X1991  X1992    X1993
## 1 21.30000 20.86900 20.39300 19.88600 19.36300 18.84200 18.33200 17.83900
## 2 51.15600 51.23700 51.32500 51.41700 51.51000 51.60300 51.69000 51.76000
## 3 52.90700 52.91800 52.90300 52.84700 52.72200 52.49000 52.14100 51.67900
## 4 25.89500 25.57900 25.21700 24.80100 24.32500 23.78800 23.19800 22.56200
## 5 19.51400 19.47700 19.50900 19.58600 19.65100 19.63500 19.48900 19.18700
## 6 39.19202 38.07726 37.53962 36.59664 35.24626 34.33291 33.59524 32.62918
##    X1994  X1995  X1996    X1997  X1998    X1999  X2000    X2001
## 1 17.36700 16.91100 16.45700 15.99400 15.51500 15.02400 14.5280 14.04100
## 2 51.80200 51.80400 51.75400 51.64600 51.47200 51.22900 50.9030 50.48600
## 3 51.12300 50.52200 49.94100 49.42700 49.00300 48.66200 48.3550 48.00500
## 4 21.88500 21.15700 20.36400 19.51000 18.61600 17.71300 16.8500 16.08100
## 5 18.73300 18.15700 17.51500 16.87800 16.30100 15.80900 15.4120 15.09600
## 6 31.83306 31.15092 30.42968 30.02708 29.53521 29.07314 28.6828 28.30524
##    X2002  X2003  X2004    X2005  X2006    X2007  X2008
## 1 13.57900 13.15300 12.77200 12.44100 12.15900 11.91900 11.71600
## 2 49.98400 49.41600 48.80300 48.17700 47.57500 47.02300 46.53800
## 3 47.54500 46.93600 46.18400 45.33000 44.44400 43.60700 42.87500
## 4 15.44400 14.96200 14.64400 14.48500 14.46400 14.53400 14.64900
## 5 14.82400 14.56500 14.30900 14.05100 13.79000 13.53200 13.28100
## 6 27.96244 27.67007 27.37897 27.11886 26.85532 26.59352 26.32405
```

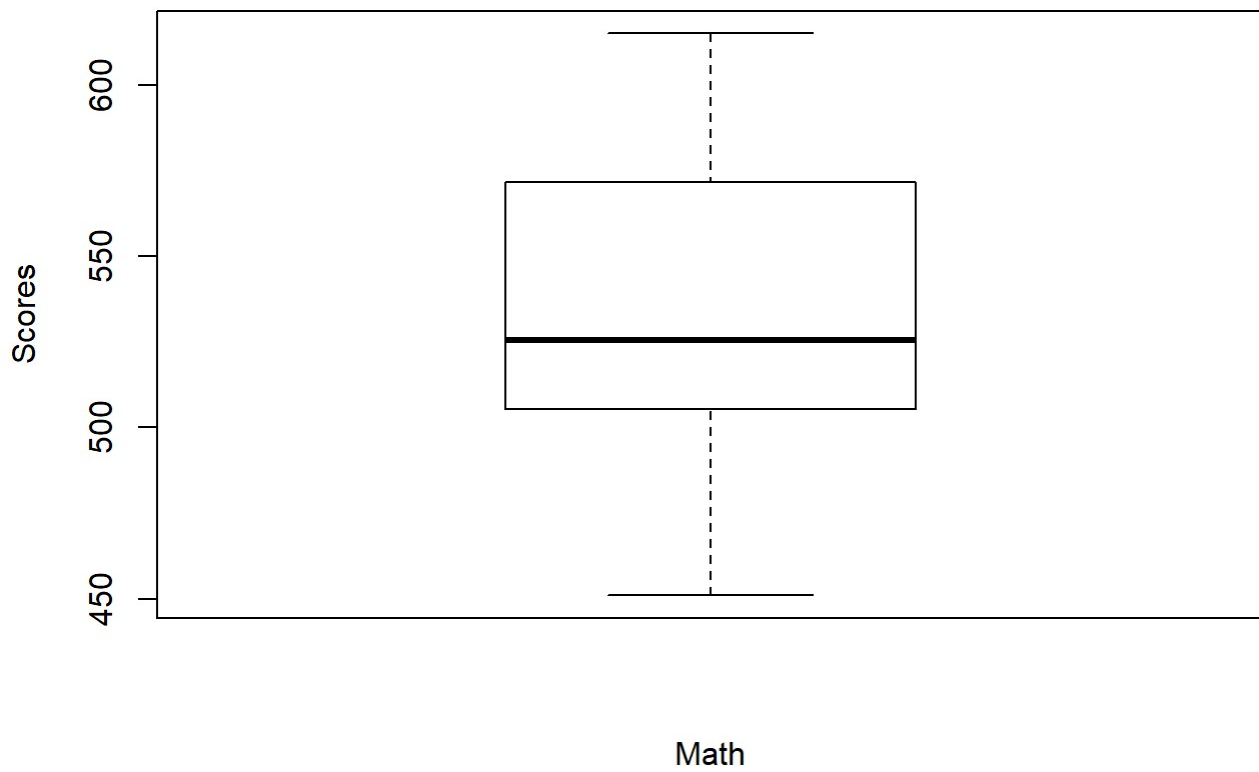
Histogram

Distribution of Math Scores in the U.S.



Box Plot

Distribution of Math Scores in the U.S.



Bullet Chart

