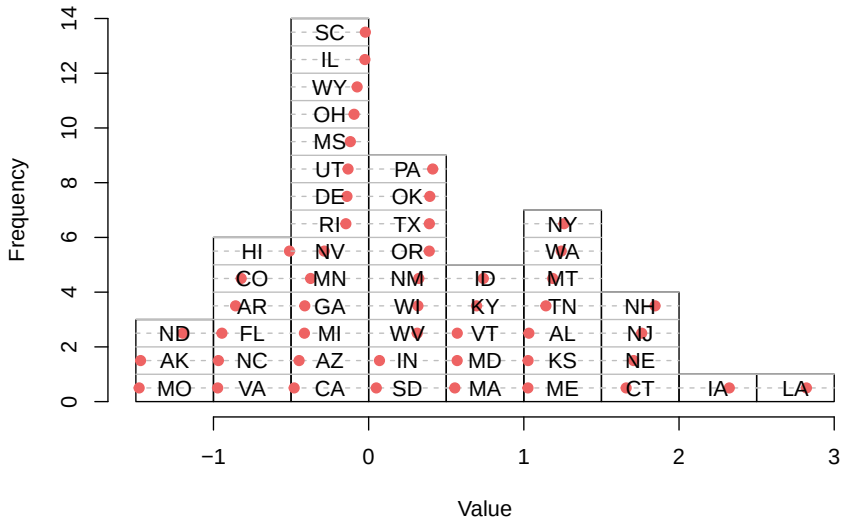
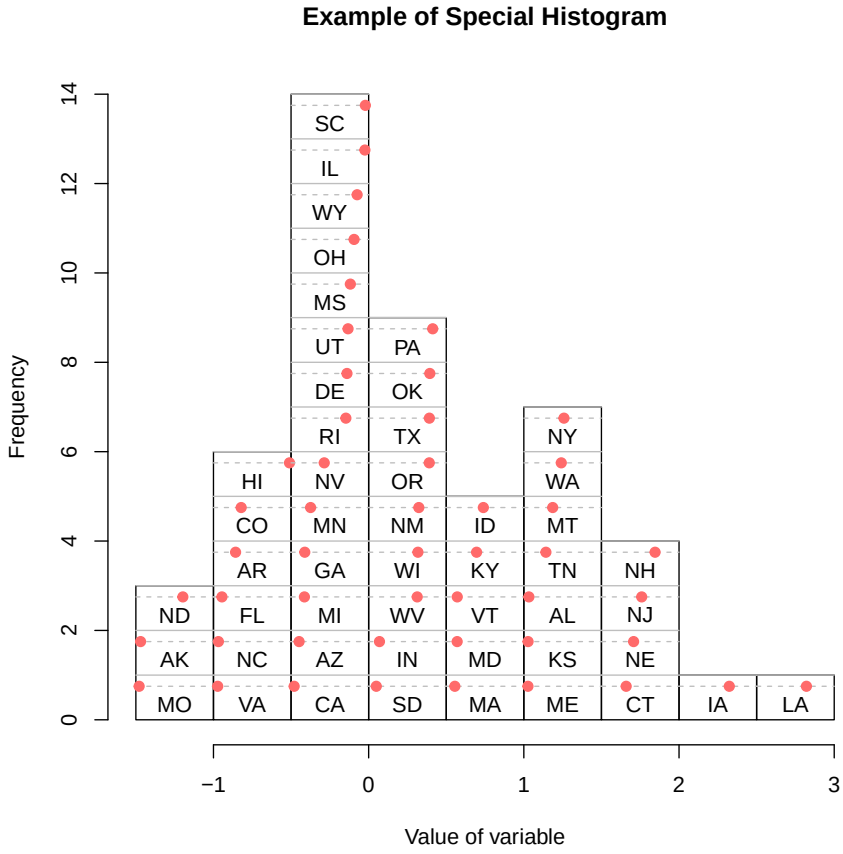

Frequency
0
2
4
6
8
10
12
14
ND
AK
MO
HI
CO
AR
FL
NC
VA
SC
IL
WY
OH
MS
UT
DE
RI
NV
MN
GA
MI
AZ
CA
PA
OK
TX
OR
NM
WI
WV
IN
SD
ID
KY
VT
MD
MA
NY
WA
MT
TN
AL
KS
ME
NH
NJ
NE
CT
IA
LA
−1
0
1
2
3
Value




```
library(readr)
files=list.files("Driving/Worst Drivers By State 2015/");files

##  [1] "animation.gif"
##  [2] "Careless Driving-Table 1.csv"
##  [3] "Copy of Final Scoring-Table 1.csv"
##  [4] "DrivingData.gif"
##  [5] "Drunk Driving-Table 1.csv"
##  [6] "Failure to Obey-Table 1.csv"
##  [7] "Fatalities per 100M Miles-Table 1.csv"
##  [8] "Final Scoring-Table 1.csv"
##  [9] "Rplot.jpeg"
## [10] "Speeding-Table 1.csv"

setwd("Driving/Worst Drivers By State 2015/")
```

```r
data=read.csv("Fatalities per 100M Miles-Table 1.csv")
data=data.frame(State=data$State)

files=c("Careless Driving-Table 1.csv","Fatalities per 100M Miles-Table 1.csv")
# "Careless Driving-Table 1.csv"          "Copy of Final Scoring-Table 1.csv"
# "Drunk Driving-Table 1.csv"             "Failure to Obey-Table 1.csv"
# "Fatalities per 100M Miles-Table 1.csv" "Final Scoring-Table 1.csv"
# "Speeding-Table 1.csv"



for(i in files){
temp=read.csv(i)
data=merge(data,temp, by = "State")
}



data$MillionMilesTraveled=100/data$Fatalities.Rate.per.100.Million.Vehicle.Miles.Traveled
data$MillionMilesTraveled
```

```
##  [1]  76.33588  95.23810  71.42857  69.44444 109.89011  98.03922 112.35955
##  [8]  94.33962 175.43860  80.00000  92.59259  99.00990  74.62687 106.38298
## [15] 100.00000 100.00000  86.20690  73.52941  68.02721  97.08738 121.95122
## [22] 172.41379 100.00000 147.05882  63.29114  91.74312  52.63158  91.74312
## [29]  94.33962  95.23810 136.98630  80.64516 108.69565  81.30081  68.02721
## [36] 113.63636  70.92199 107.52688  81.96721 119.04762  63.69427  67.56757
## [43]  71.42857  72.46377 123.45679 103.09278 108.69565 131.57895  57.80347
## [50] 109.89011 107.52688
```

```r
data
```

```
##                   State Pedestrians.Killed Pedacyclists.Killed
## 1               Alabama                 59                   6
## 2                Alaska                  6                   1
## 3               Arizona                151                  31
## 4              Arkansas                 45                   4
## 5            California                701                 141
## 6              Colorado                 50                  12
## 7           Connecticut                 36                   3
## 8              Delaware                 25                   1
## 9  District of Columbia                  9                   1
## 10              Florida                501                 133
## 11              Georgia                176                  28
## 12               Hawaii                 23                   2
## 13                Idaho                 14                   3
```

```
## 14             Illinois                125                  30
## 15              Indiana                 77                  14
## 16                 Iowa                 20                   3
## 17               Kansas                 25                   6
## 18             Kentucky                 55                   3
## 19            Louisiana                 97                  14
## 20                Maine                 11                   4
## 21             Maryland                108                   6
## 22        Massachusetts                 68                   6
## 23             Michigan                148                  27
## 24            Minnesota                 32                   6
## 25          Mississippi                 53                   6
## 26             Missouri                 73                   4
## 27              Montana                 24                   1
## 28             Nebraska                 12                   0
## 29               Nevada                 65                   7
## 30        New Hampshire                 12                   4
## 31           New Jersey                129                  14
## 32           New Mexico                 49                   4
## 33             New York                335                  40
## 34       North Carolina                173                  22
## 35         North Dakota                  1                   1
## 36                 Ohio                 85                  19
## 37             Oklahoma                 58                  13
## 38               Oregon                 48                   3
## 39         Pennsylvania                147                  11
## 40         Rhode Island                 14                   3
## 41       South Carolina                100                  15
## 42         South Dakota                  9                   0
## 43            Tennessee                 80                   8
## 44                Texas                480                  48
## 45                 Utah                 28                   6
## 46              Vermont                  5                   0
## 47             Virginia                 75                   8
## 48           Washington                 49                  11
## 49        West Virginia                 28                   0
## 50            Wisconsin                 37                  10
## 51              Wyoming                  4                   0
##    Population..Thousands. Pedestrian.Fatality.Rate.per.100.000.Population
## 1                    4834                                             1.22
## 2                     735                                             0.82
## 3                    6627                                             2.00
## 4                    2959                                             1.52
## 5                   38333                                             1.83
## 6                    5268                                             0.95
```

```
## 7                3596                                    1.00
## 8                 926                                    2.70
## 9                 646                                    1.39
## 10              19553                                    3.00
## 11               9992                                    1.76
## 12               1404                                    1.64
## 13               1612                                    0.87
## 14              12882                                    1.00
## 15               6571                                    1.17
## 16               3090                                    0.65
## 17               2894                                    1.00
## 18               4395                                    1.00
## 19               4625                                    2.10
## 20               1328                                    0.83
## 21               5929                                    1.82
## 22               6693                                    1.02
## 23               9896                                    1.50
## 24               5420                                    0.59
## 25               2991                                    2.00
## 26               6044                                    1.21
## 27               1015                                    2.36
## 28               1869                                    0.64
## 29               2790                                    2.33
## 30               1323                                    1.00
## 31               8899                                    1.45
## 32               2085                                    2.35
## 33              19651                                    2.00
## 34               9848                                    1.76
## 35                723                                    0.14
## 36              11571                                    1.00
## 37               3851                                    1.51
## 38               3930                                    1.00
## 39              12774                                    1.15
## 40               1052                                    1.33
## 41               4775                                    2.09
## 42                845                                    1.07
## 43               6496                                    1.23
## 44              26448                                    2.00
## 45               2901                                    1.00
## 46                627                                    0.80
## 47               8260                                    0.91
## 48               6971                                    1.00
## 49               1854                                    1.51
## 50               5743                                    0.64
## 51                583                                    0.69
```

```
##    Pedacyclist.Fatality.Rate.per.100.000.Population
## 1                                                0.12
## 2                                                0.14
## 3                                                0.47
## 4                                                0.14
## 5                                                0.37
## 6                                                0.23
## 7                                                0.08
## 8                                                0.11
## 9                                                0.15
## 10                                               0.68
## 11                                               0.28
## 12                                               0.14
## 13                                               0.19
## 14                                               0.23
## 15                                               0.21
## 16                                               0.10
## 17                                               0.21
## 18                                               0.07
## 19                                               0.30
## 20                                               0.30
## 21                                               0.10
## 22                                               0.09
## 23                                               0.27
## 24                                               0.11
## 25                                               0.20
## 26                                               0.07
## 27                                               0.10
## 28                                               0.00
## 29                                               0.25
## 30                                               0.30
## 31                                               0.16
## 32                                               0.19
## 33                                               0.20
## 34                                               0.22
## 35                                               0.14
## 36                                               0.16
## 37                                               0.34
## 38                                               0.08
## 39                                               0.09
## 40                                               0.29
## 41                                               0.31
## 42                                               0.00
## 43                                               0.12
## 44                                               0.18
```

```
## 45                                                0.21
## 46                                                0.00
## 47                                                0.10
## 48                                                0.16
## 49                                                0.00
## 50                                                0.17
## 51                                                0.00
##    Total..Pedestrians...Pedacyclist. Rank.x X.x
## 1                               1.34     26  NA
## 2                               0.96     42  NA
## 3                               2.75      3  NA
## 4                               1.66     19  NA
## 5                               2.20      9  NA
## 6                               1.18     33  NA
## 7                               1.08     37  NA
## 8                               2.81      2  NA
## 9                               1.54     22  NA
## 10                              3.24      1  NA
## 11                              2.04     10  NA
## 12                              1.78     17  NA
## 13                              1.06     40  NA
## 14                              1.20     32  NA
## 15                              1.38     24  NA
## 16                              0.75     47  NA
## 17                              1.07     38  NA
## 18                              1.32     27  NA
## 19                              2.40      7  NA
## 20                              1.13     35  NA
## 21                              1.92     14  NA
## 22                              1.11     36  NA
## 23                              1.77     18  NA
## 24                              0.70     48  NA
## 25                              1.97     13  NA
## 26                              1.28     29  NA
## 27                              2.46      6  NA
## 28                              0.64     50  NA
## 29                              2.58      4  NA
## 30                              1.21     31  NA
## 31                              1.61     21  NA
## 32                              2.54      5  NA
## 33                              1.90     15  NA
## 34                              1.98     12  NA
## 35                              0.28     51  NA
## 36                              0.89     43  NA
## 37                              1.85     16  NA
```

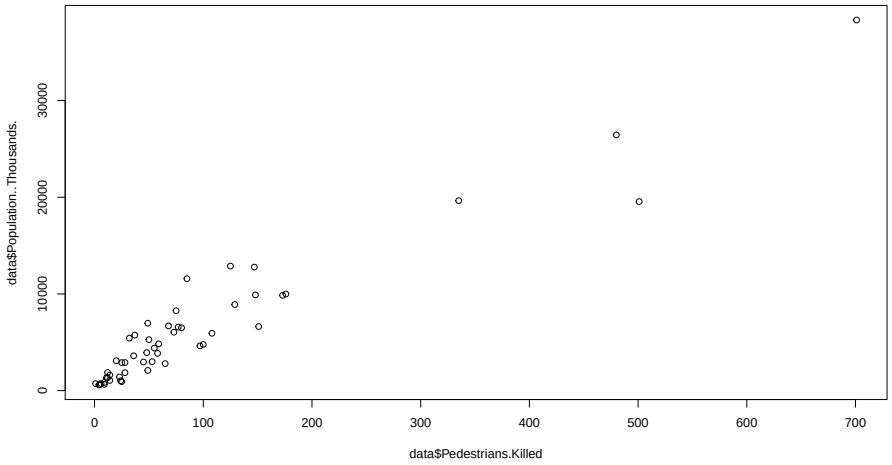
```
## 38                                1.30     28  NA
## 39                                1.24     30  NA
## 40                                1.62     20  NA
## 41                                2.40      7  NA
## 42                                1.07     38  NA
## 43                                1.35     25  NA
## 44                                1.99     11  NA
## 45                                1.18     33  NA
## 46                                0.80     46  NA
## 47                                1.01     41  NA
## 48                                0.86     44  NA
## 49                                1.51     23  NA
## 50                                0.81     45  NA
## 51                                0.69     49  NA
##                                                                  Sources.
## 1    http://www-fars.nhtsa.dot.gov/States/StatesPedestrians.aspx
## 2  http://www-fars.nhtsa.dot.gov/People/PeoplePedalcyclists.aspx
## 3
## 4
## 5
## 6
## 7
## 8
## 9
## 10
## 11
## 12
## 13
## 14
## 15
## 16
## 17
## 18
## 19
## 20
## 21
## 22
## 23
## 24
## 25
## 26
## 27
## 28
## 29
## 30
```

```
## 31
## 32
## 33
## 34
## 35
## 36
## 37
## 38
## 39
## 40
## 41
## 42
## 43
## 44
## 45
## 46
## 47
## 48
## 49
## 50
## 51
##    Fatalities.Rate.per.100.Million.Vehicle.Miles.Traveled Rank.y X.y
## 1                                                    1.31     15  NA
## 2                                                    1.05     26  NA
## 3                                                    1.40     10  NA
## 4                                                    1.44      8  NA
## 5                                                    0.91     40  NA
## 6                                                    1.02     29  NA
## 7                                                    0.89     42  NA
## 8                                                    1.06     24  NA
## 9                                                    0.57     51  NA
## 10                                                   1.25     16  NA
## 11                                                   1.08     23  NA
## 12                                                   1.01     30  NA
## 13                                                   1.34     14  NA
## 14                                                   0.94     35  NA
## 15                                                   1.00     31  NA
## 16                                                   1.00     31  NA
## 17                                                   1.16     20  NA
## 18                                                   1.36     13  NA
## 19                                                   1.47      6  NA
## 20                                                   1.03     28  NA
## 21                                                   0.82     45  NA
## 22                                                   0.58     50  NA
## 23                                                   1.00     31  NA
```

```
## 24                                                    0.68     49  NA
## 25                                                    1.58      3  NA
## 26                                                    1.09     21  NA
## 27                                                    1.90      1  NA
## 28                                                    1.09     21  NA
## 29                                                    1.06     24  NA
## 30                                                    1.05     26  NA
## 31                                                    0.73     48  NA
## 32                                                    1.24     17  NA
## 33                                                    0.92     38  NA
## 34                                                    1.23     18  NA
## 35                                                    1.47      6  NA
## 36                                                    0.88     43  NA
## 37                                                    1.41      9  NA
## 38                                                    0.93     36  NA
## 39                                                    1.22     19  NA
## 40                                                    0.84     44  NA
## 41                                                    1.57      4  NA
## 42                                                    1.48      5  NA
## 43                                                    1.40     10  NA
## 44                                                    1.38     12  NA
## 45                                                    0.81     46  NA
## 46                                                    0.97     34  NA
## 47                                                    0.92     38  NA
## 48                                                    0.76     47  NA
## 49                                                    1.73      2  NA
## 50                                                    0.91     40  NA
## 51                                                    0.93     36  NA
##                                                                    Source.
## 1  http://www-fars.nhtsa.dot.gov/States/StatesFatalitiesFatalityRates.aspx
## 2
## 3
## 4
## 5
## 6
## 7
## 8
## 9
## 10
## 11
## 12
## 13
## 14
## 15
## 16
```

```
## 17
## 18
## 19
## 20
## 21
## 22
## 23
## 24
## 25
## 26
## 27
## 28
## 29
## 30
## 31
## 32
## 33
## 34
## 35
## 36
## 37
## 38
## 39
## 40
## 41
## 42
## 43
## 44
## 45
## 46
## 47
## 48
## 49
## 50
## 51
##    MillionMilesTraveled
## 1              76.33588
## 2              95.23810
## 3              71.42857
## 4              69.44444
## 5             109.89011
## 6              98.03922
## 7             112.35955
## 8              94.33962
## 9             175.43860
```

```
## 10              80.00000
## 11              92.59259
## 12              99.00990
## 13              74.62687
## 14             106.38298
## 15             100.00000
## 16             100.00000
## 17              86.20690
## 18              73.52941
## 19              68.02721
## 20              97.08738
## 21             121.95122
## 22             172.41379
## 23             100.00000
## 24             147.05882
## 25              63.29114
## 26              91.74312
## 27              52.63158
## 28              91.74312
## 29              94.33962
## 30              95.23810
## 31             136.98630
## 32              80.64516
## 33             108.69565
## 34              81.30081
## 35              68.02721
## 36             113.63636
## 37              70.92199
## 38             107.52688
## 39              81.96721
## 40             119.04762
## 41              63.69427
## 42              67.56757
## 43              71.42857
## 44              72.46377
## 45             123.45679
## 46             103.09278
## 47             108.69565
## 48             131.57895
## 49              57.80347
## 50             109.89011
## 51             107.52688

plot(data$Pedestrians.Killed, data$Population..Thousands.)
```




```
names(data)
```

```
##  [1] "State"
##  [2] "Pedestrians.Killed"
##  [3] "Pedacyclists.Killed"
##  [4] "Population..Thousands."
##  [5] "Pedestrian.Fatality.Rate.per.100.000.Population"
##  [6] "Pedacyclist.Fatality.Rate.per.100.000.Population"
##  [7] "Total..Pedestrians...Pedacyclist."
##  [8] "Rank.x"
##  [9] "X.x"
## [10] "Sources."
## [11] "Fatalities.Rate.per.100.Million.Vehicle.Miles.Traveled"
## [12] "Rank.y"
## [13] "X.y"
## [14] "Source."
## [15] "MillionMilesTraveled"
```

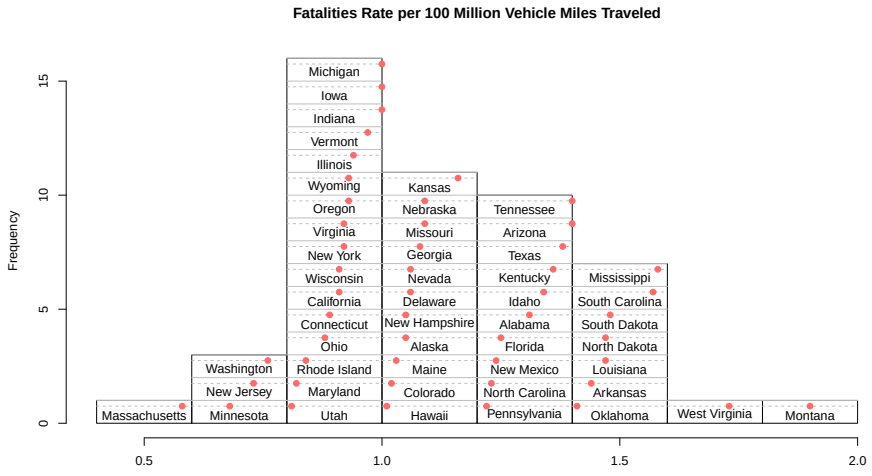
```
library(dplyr)
```

```
##
## Attaching package:  'dplyr'
## The following objects are masked from 'package:stats':
##
##    filter, lag
## The following objects are masked from 'package:base':
##
##    intersect, setdiff, setequal, union
```

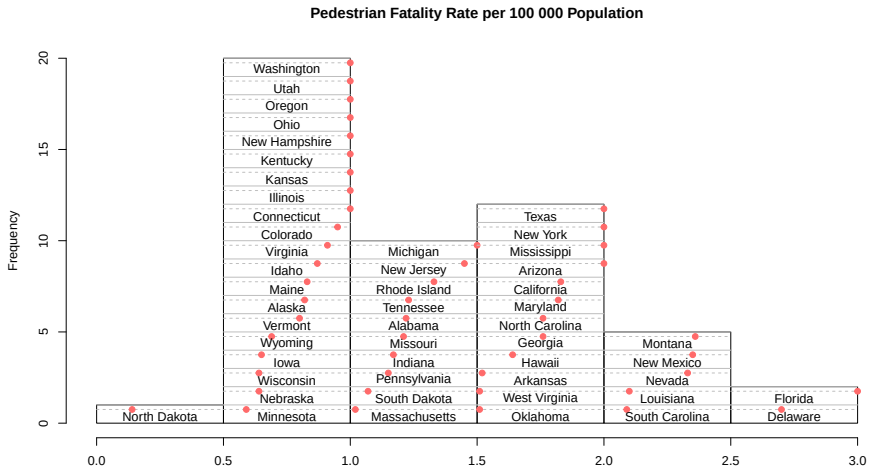
```r
data=filter(data, State!="District of Columbia")


names(data)
```

```
##  [1] "State"
##  [2] "Pedestrians.Killed"
##  [3] "Pedacyclists.Killed"
##  [4] "Population..Thousands."
##  [5] "Pedestrian.Fatality.Rate.per.100.000.Population"
##  [6] "Pedacyclist.Fatality.Rate.per.100.000.Population"
##  [7] "Total..Pedestrians...Pedacyclist."
##  [8] "Rank.x"
##  [9] "X.x"
## [10] "Sources."
## [11] "Fatalities.Rate.per.100.Million.Vehicle.Miles.Traveled"
## [12] "Rank.y"
## [13] "X.y"
## [14] "Source."
## [15] "MillionMilesTraveled"
```

```r
val="Fatalities.Rate.per.100.Million.Vehicle.Miles.Traveled"
main=str_replace_all(val, "\\.", " ")
specialHist(data=data,
            val=val,
            names="State",
            main=main,
            xlab="")
```



```
val="Pedestrian.Fatality.Rate.per.100.000.Population"
main=str_replace_all(val, "\\.", " ")
specialHist(data=data,
            val=val,
            names="State",
            main=main,
            xlab="")
```




```
## Executing:
## 'convert' -loop 0 -delay 150 Rplot1.png Rplot2.png Rplot3.png
##    'DrivingData.gif'
## Output at:  DrivingData.gif
```