Generación Dinámica de Reportes

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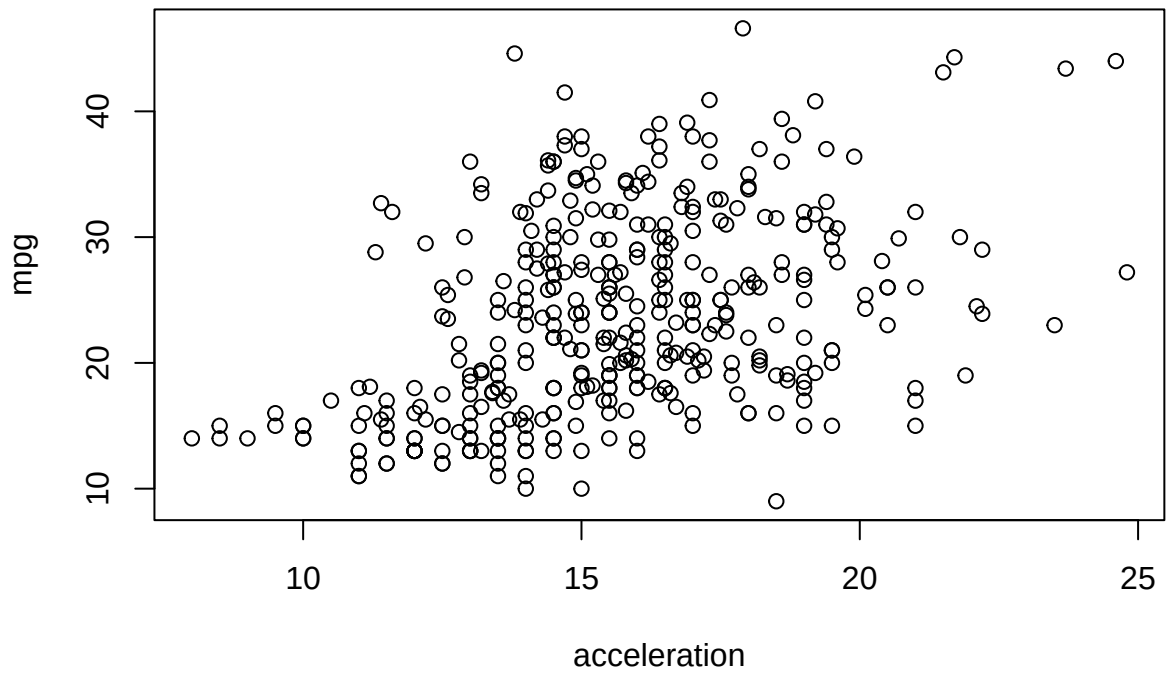
```
auto <- read.csv('../../../data/tema10/auto-mpg.csv')
str(auto)
```

```
## 'data.frame':    398 obs. of  9 variables:
##  $ No          : int  1 2 3 4 5 6 7 8 9 10 ...
##  $ mpg         : num  28 19 36 28 21 23 15.5 32.9 16 13 ...
##  $ cylinders   : int  4 3 4 4 6 4 8 4 6 8 ...
##  $ displacement: num  140 70 107 97 199 115 304 119 250 318 ...
##  $ horsepower  : int  90 97 75 92 90 95 120 100 105 150 ...
##  $ weight      : int  2264 2330 2205 2288 2648 2694 3962 2615 3897 3755 ...
##  $ acceleration: num  15.5 13.5 14.5 17 15 15 13.9 14.8 18.5 14 ...
##  $ model_year  : int  71 72 82 72 70 75 76 81 75 76 ...
##  $ car_name    : chr  "chevrolet vega 2300" "mazda rx2 coupe" "honda accord" "datsun 510 (sw)" ...
```

```
plot(as.formula(paste('mpg ~ ', params$n)), data = auto)
```



Un ejemplo con LaTeX

$$\int_0^\infty \frac{1}{x^2} dx$$

```
x = rnorm(100)
x
```

```
##   [1] -0.478355915 -1.227444373  0.429873021 -0.110488012  0.592573993  1.250647183 -0.344801364 -0.5
##   [9] -0.451053076 -0.362946359 -0.411884782 -1.453560231  0.206361173 -0.896464094 -0.852530856 -0.7
##  [17]  1.077075404  0.055621245  1.590978777  1.211385623 -0.094464352 -0.409471351 -2.954298445 -0.3
##  [25]  2.370720050 -2.658704001  0.048662024 -0.819939844  1.862143396 -0.006357787  3.261960271 -1.0
##  [33]  0.606587412  0.012745569 -0.006544662  0.195757313 -0.837522284 -0.135599418  0.929110057  0.4
##  [41] -0.578197795 -0.897707711  0.368831235  0.227250100  0.580432861  1.849400693 -0.496538316 -1.1
##  [49]  0.414772775  0.150750685 -0.245939144  0.825451191  1.115692610  0.930552591 -0.486857745 -0.7
##  [57]  1.678278556 -0.912518280  1.096223969 -1.361228669 -0.298517020  0.475073907  0.812965364  3.0
##  [65]  0.667552067  0.800963415 -0.436306377  0.030301057  0.990515699 -0.069146512  0.092785890 -0.1
##  [73] -3.038846068 -0.851466993 -0.198856009  2.928209603 -0.394695670 -0.989765076 -0.900379103  0.1
##  [81] -0.439174324  0.502746178 -1.614650283 -0.013194485  0.024544216 -0.384080793  1.520627362  0.2
##  [89]  1.055784169 -0.126172885 -0.545307263 -0.251148390  0.829719479  0.370841893 -0.549328215 -0.3
##  [97] -1.345526703 -1.892612107  1.950331662  0.074405684
```

El promedio en estadística se define como $\overline{x} = \sum_{i=1}^{N} \frac{x_i}{N} = 0.0312196$