Dynamic Report Generation

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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    : Factor w/ 305 levels "amc ambassador brougham",..: 66 184 165 86 8 18 11 79 42 112
```

```
#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]  0.418135724  1.357351470 -0.994183030 -1.758047588 -0.872856459
##   [6]  0.883932442  1.857763578 -0.302309167 -0.849524915  1.683565914
##  [11] -0.141771293  1.296525580  1.034691066  1.169205127 -0.228252766
##  [16]  0.730205667  0.285443692 -0.434439538  0.384416429 -0.082146809
##  [21] -0.596426697  0.646251964  1.393492884  0.382217718  0.178256820
##  [26]  0.744803701  0.202042728  0.421227604 -0.480132955 -1.723997336
##  [31]  0.127400972 -0.611091437 -0.111779368 -0.357784650 -0.769297406
##  [36] -1.250320351  2.028218972  0.330182250 -0.944467230  1.091136081
##  [41]  0.297610224 -1.749602326 -0.173998919  0.330567862 -1.398928963
##  [46] -0.615231030 -1.227283519 -0.550987292  0.517974674  0.648073185
##  [51] -0.673702173 -0.147336549  0.704591909 -0.134690720  0.323454424
##  [56]  0.715393080 -1.690643763 -0.404398242  1.330776124 -0.427439797
##  [61]  1.337540278  0.397174372 -1.451552985  0.342524959  2.201173364
##  [66]  0.034363668 -0.206208284  0.246019122 -0.936594726  0.983839708
##  [71]  0.491364567  0.945933785 -0.052590966 -1.141788286  0.940725548
##  [76]  0.812156314 -1.825328647  2.092746451  0.717821380  0.485136778
##  [81]  0.512123059 -0.145022191 -1.278435364 -0.356713524  1.267771705
##  [86] -1.031864507 -0.941495268 -1.449993118  1.043571361  0.743853794
##  [91]  0.891549027 -0.531253724 -0.786402009 -0.043880528 -0.811792663
##  [96] -0.272580028  0.445952260  0.009962404  0.506340148 -1.156170965
```

El promedio en estadística se define como $\overline{x} = \sum\limits_{i=1}^{N} \dfrac{x_i}{N} = 0.0484181$