

CargarDatos

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Carga de datos

```
Datos <- read.table(  
  "UScrime.txt",  
  header = TRUE,  
  dec = ",",  
)
```

Primera idea: Incluir todas las variables :

```
lm(  
  y ~ . ,  
  data = Datos  
) |> summary()
```

```
##  
## Call:  
## lm(formula = y ~ ., data = Datos)  
##  
## Residuals:  
##      Min       1Q   Median       3Q      Max   
## -395.74  -98.09   -6.69   112.99   512.67   
##  
## Coefficients:  
##              Estimate Std. Error t value Pr(>|t|)      
## (Intercept) -5984.2876   1628.3184  -3.675  0.000893 ***  
## M              8.7830     4.1714   2.106  0.043443 *    
## So            -3.8035    148.7551  -0.026  0.979765      
## Ed             18.8324     6.2088   3.033  0.004861 **     
## Po1            19.2804    10.6110   1.817  0.078892 .      
## Po2           -10.9422    11.7478  -0.931  0.358830      
## LF            -0.6638     1.4697  -0.452  0.654654      
## M.F             1.7407     2.0354   0.855  0.398995      
## Pop           -0.7330     1.2896  -0.568  0.573845      
## NW              0.4204     0.6481   0.649  0.521279      
## U1             -5.8271     4.2103  -1.384  0.176238      
## U2             16.7800     8.2336   2.038  0.050161 .      
## GDP              0.9617     1.0367   0.928  0.360754      
## Ineq            7.0672     2.2717   3.111  0.003983 **     
## Prob          -4855.2658  2272.3746  -2.137  0.040627 *      
## Time           -3.4790     7.1653  -0.486  0.630708
```

```
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 209.1 on 31 degrees of freedom
## Multiple R-squared:  0.8031, Adjusted R-squared:  0.7078
## F-statistic: 8.429 on 15 and 31 DF,  p-value: 3.539e-07
```

En este caso se puede ver que pocas variables son significativas, pero el modelo en general si lo es ...

Pasos siguientes :

- Hay que empezar el proceso de ... (Backward/Forward/Stepwise)
- Diagnostico ...