

Econometría Aplicada

con 



```
R Console (32-bit)
Archivo Editar Misc. Ejecutar Ventanas Ayuda

> x <- c(1,2,3,4,5,6)
> y <- x^2
> print(y)
[1] 1 4 9 16 25 36
> mean(y)
[1] 15.16667
> var(y)
[1] 178.9444
> lm_1 <- lm(y ~ x)
> print(lm_1)

Call:
lm(formula = y ~ x)

Coefficients:
(Intercept) -9.3333
x             7.0000

> summary(lm_1)

Call:
lm(formula = y ~ x)

Coefficients:
(Intercept) -9.3333
x             7.0000

Residuals:
1      2      3      4      5      6
3.3333 -0.6667 -2.6667 -2.6667 -0.6667  3.3333

Coefficients:
(Intercept) Estimate Std. Error t value Pr(>|t|)
1             -9.3333      2.8441    -3.282 0.030453 *
2              7.0000      0.7303     9.585 0.000662 ***
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 3.055 on 4 degrees of freedom
Multiple R-squared:  0.9583,    Adjusted R-squared:  0.9478
F-statistic: 91.87 on 1 and 4 DF,    p-value: 0.000662

> |
```



EJEMPLO 3: INSTALAR Y CARGAR PAQUETES

OBJETIVOS



El objetivo principal del ejemplo siguiente es mostrar como instalar y cargar paquetes en R, a fin de que las utilidades extra del programa puedan ser usadas.

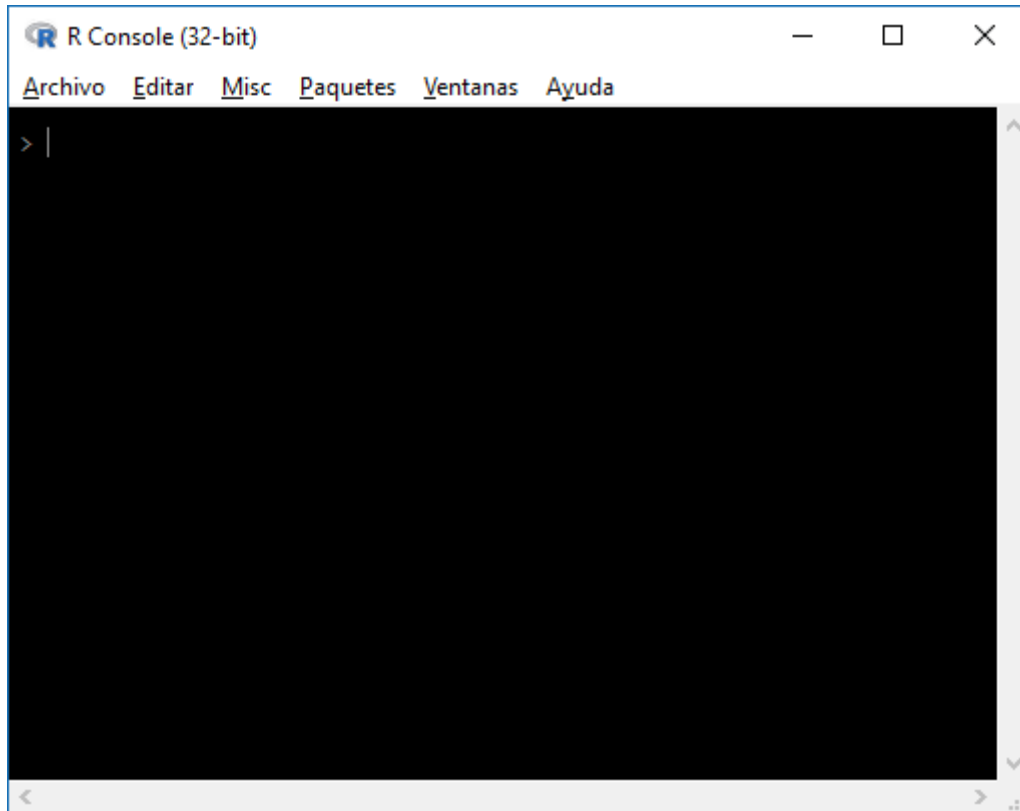
PLANTEAMIENTO



En el siguiente ejemplo se realizará la instalación y el cargado del paquete **forecast**, este paquete sirve para crear modelos de series temporales para la predicción de variables.

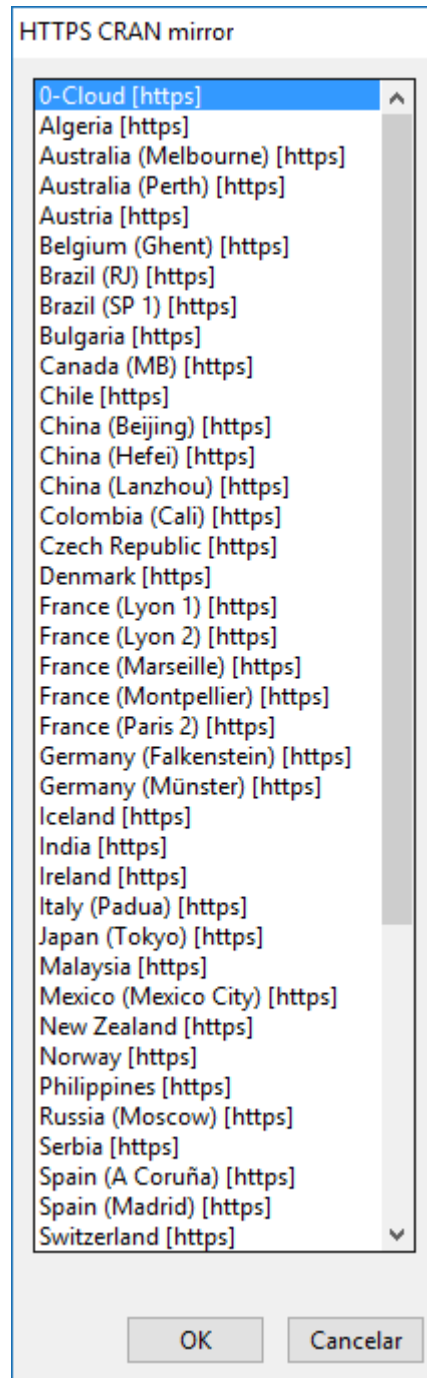
Desarrollo

Se tiene abierto el espacio de trabajo en R:



Se digitará la siguiente sentencia, en donde aparecerá una ventana para elegir el CRAN Visor de donde instalar:

```
> install.packages("forecast")  
Installing package into 'C:/Users/JNavarro/Documents/R/win-library/3.3'  
(as 'lib' is unspecified)  
--- Please select a CRAN mirror for use in this session ---
```



Una vez elegido el Visor CRAN, se instalará el paquete que se seleccionó:

also installing the dependencies 'quadprog', 'timeDate', 'tseries',
'fracdiff', 'RcppArmadillo'

probando la URL

'https://mirror.las.iastate.edu/CRAN/bin/windows/contrib/3.3/quadprog_1.5-5.zip'

Content type 'application/zip' length 52461 bytes (51 KB)
downloaded 51 KB

```
probando la URL
'https://mirror.las.iastate.edu/CRAN/bin/windows/contrib/3.3/timeDate_
3012.100.zip'
Content type 'application/zip' length 791387 bytes (772 KB)
downloaded 772 KB
```

```
probando la URL
'https://mirror.las.iastate.edu/CRAN/bin/windows/contrib/3.3/tseries_0
.10-35.zip'
Content type 'application/zip' length 327248 bytes (319 KB)
downloaded 319 KB
```

```
probando la URL
'https://mirror.las.iastate.edu/CRAN/bin/windows/contrib/3.3/fracdiff_
1.4-2.zip'
Content type 'application/zip' length 106199 bytes (103 KB)
downloaded 103 KB
```

```
probando la URL
'https://mirror.las.iastate.edu/CRAN/bin/windows/contrib/3.3/RcppArmad
illo_0.7.500.0.0.zip'
Content type 'application/zip' length 1813322 bytes (1.7 MB)
downloaded 1.7 MB
```

```
probando la URL
'https://mirror.las.iastate.edu/CRAN/bin/windows/contrib/3.3/forecast_
7.3.zip'
Content type 'application/zip' length 1435456 bytes (1.4 MB)
downloaded 1.4 MB
```

```
package 'quadprog' successfully unpacked and MD5 sums checked
package 'timeDate' successfully unpacked and MD5 sums checked
package 'tseries' successfully unpacked and MD5 sums checked
package 'fracdiff' successfully unpacked and MD5 sums checked
package 'RcppArmadillo' successfully unpacked and MD5 sums checked
package 'forecast' successfully unpacked and MD5 sums checked
```

The downloaded binary packages are in

C:\Users\JNavarro\AppData\Local\Temp\RtmpsDRFY3\downloaded_packages

Luego de esto se deberá cargar el paquete, de la siguiente manera y aparecerá lo siguiente:

```
> library("forecast")
Loading required package: zoo
Attaching package: 'zoo'
```

The following objects are masked from 'package:base':

```
as.Date, as.Date.numeric
```

```
Loading required package: timeDate
This is forecast 7.3
```