Clase3

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Quarto

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Ejemplo 2: Análisis de regresión

```
-- Attaching core tidyverse packages ----- tidyverse 2.0.0 --
                   v readr
        1.1.3
v dplyr
                                 2.1.4
v forcats 1.0.0 v stringr
v ggplot2 3.4.3 v tibble
                                 1.5.0
                                 3.2.1
v lubridate 1.9.3
                     v tidyr
                                 1.3.0
          1.0.2
-- Conflicts ----- tidyverse_conflicts() --
x dplyr::filter() masks stats::filter()
x dplyr::lag()
                 masks stats::lag()
i Use the conflicted package (<a href="http://conflicted.r-lib.org/">http://conflicted.r-lib.org/</a>) to force all conflicts to become
Warning: package 'equatiomatic' was built under R version 4.3.3
Please cite as:
 Hlavac, Marek (2022). stargazer: Well-Formatted Regression and Summary Statistics Tables.
 R package version 5.2.3. https://CRAN.R-project.org/package=stargazer
[1] 75 7
```

```
inc size educ age black cons
  sav
  30 1920
             4
                 2 40
                         1 1890
1
2 874 12403
             4
                9 33
                         0 11529
3 370 6396
             2 17 31
                         0 6026
4 1200 7005
             3 9 50
                         0 5805
5 275 6990
             4 12 28
                         0 6715
6 1400 6500
                         0 5100
           4 13 33
```

sav	inc	size	educ
Min. : 6.0	Min. : 1920	Min. : 2.000	Min. : 2.00
1st Qu.: 631.5	1st Qu.: 6600	1st Qu.: 3.000	1st Qu.: 9.00
Median :1105.0	Median: 8703	Median : 4.000	Median :12.00
Mean :1616.2	Mean : 9252	Mean : 4.333	Mean :11.49
3rd Qu.:2033.5	3rd Qu.:11100	3rd Qu.: 5.000	3rd Qu.:12.50
Max. :6120.0	Max. :19362	Max. :10.000	Max. :20.00
age	black	cons	
Min. :27.00	Min. :0.00000	Min. : 1366	
1st Qu.:33.00	1st Qu.:0.00000	1st Qu.: 5664	
Median :38.00	Median :0.00000	Median : 7210	
Mean :38.21	Mean :0.06667	Mean : 7636	
3rd Qu.:44.00	3rd Qu.:0.00000	3rd Qu.: 9438	
Max. :54.00	Max. :1.00000	Max. :16772	

Call:

lm(formula = sav ~ inc, data = saving)

Residuals:

Min 1Q Median 3Q Max -2667.8 -874.5 -302.7 431.1 4606.6

Coefficients:

Estimate Std. Error t value Pr(>|t|)
(Intercept) 316.19835 462.06882 0.684 0.49595
inc 0.14052 0.04672 3.007 0.00361 **

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 1413 on 73 degrees of freedom Multiple R-squared: 0.1102, Adjusted R-squared: 0.09805

F-statistic: 9.044 on 1 and 73 DF, p-value: 0.003613

$$sav = \beta_0 + \beta_1(inc) + \epsilon \tag{1}$$

$$\hat{\text{sav}} = 316.2 + 0.14(\text{inc})$$
 (2)

$$\hat{\text{sav}} = 316.198 + 0.141(\text{inc})$$

$$_{(462.069)}^{(60.047)}$$
(3)

Table 1: Regresión lineal simple

	Dependent variable:
	sav
inc	0.141***
	(0.047)
Constant	316.198
	(462.069)
Observations	75
\mathbb{R}^2	0.110
Adjusted R^2	0.098
Residual Std. Error	1,413.472 (df = 73)
F Statistic	$9.044^{***} (df = 1; 73)$
Note:	*p<0.1; **p<0.05; ***p<