# Regression tables with Stargazer

### Francesco Bailo

2023-05-03

# **Installing Stargazer**

Make sure to install the package first!

```
install.packages("stargazer")
```

The stargazer package helps you to print out nicely edited tables from your regressions.

## Step 1. Let's produce some results from a linear model

```
fit <- lm(iris$Sepal.Length ~ iris$Sepal.Width + iris$Petal.Width)
```

You can get a summary of the regression statistics with

```
summary(fit)
```

```
##
## Call:
## lm(formula = iris$Sepal.Length ~ iris$Sepal.Width + iris$Petal.Width)
## Residuals:
               1Q Median
                               30
                                      Max
## -1.2076 -0.2288 -0.0450 0.2266 1.1810
##
## Coefficients:
##
                   Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                              0.30919 11.18 < 2e-16 ***
                    3.45733
## iris$Sepal.Width 0.39907
                               0.09111
                                         4.38 2.24e-05 ***
                               0.05210 18.66 < 2e-16 ***
## iris$Petal.Width 0.97213
## Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' ' 1
## Residual standard error: 0.4511 on 147 degrees of freedom
## Multiple R-squared: 0.7072, Adjusted R-squared: 0.7033
## F-statistic: 177.6 on 2 and 147 DF, p-value: < 2.2e-16
```

## Step 2a. Let's present the results in a nice table (in a PDF)

Let's load the package first...

#### library(stargazer)

##

## 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
- ... now we can use the function stargazer() with our lm object named fit.

stargazer(fit, header = FALSE, type='latex')

Table 1:

	$Dependent\ variable:$
	Sepal.Length
Sepal.Width	0.399***
	(0.091)
Petal.Width	0.972***
	(0.052)
Constant	3.457***
	(0.309)
Observations	150
$\mathbb{R}^2$	0.707
Adjusted R <sup>2</sup>	0.703
Residual Std. Error	0.451 (df = 147)
F Statistic	$177.556^{***} (df = 2; 147)$
Note:	*p<0.1; **p<0.05; ***p<0.01

#### Notes

We need to specify two options/arguments for this to run properly.

- 1. We need to specify the option results = 'asis' for our code chunk: {r results = 'asis'}. This writes "the raw text results directly into the output document without any markups" (see here for details).
- 2. We need to set the argument header = FALSE in the stargazer() function, so to avoid adding the name and version of the package just before the table.
- 3. We can specify the type of output with want. In this case, we need a type='latex' as the engine to produce the PDF will need a LATEX formatted document.

# Step 2b. Let's present the results in a nice table (in a Word document)

```
stargazer(fit, header = FALSE, type='html')
Dependent variable:
{\bf Sepal. Length}
Sepal.Width
0.399***
(0.091)
Petal. Width \\
0.972***
(0.052)
Constant
3.457***
(0.309)
Observations
150
R2
0.707
Adjusted R2
0.703
Residual Std. Error
0.451 (df = 147)
{\bf F} Statistic
177.556**** (df = 2; 147)
Note:
p < 0.1; p < 0.05; p < 0.01
```