

Basics of Using L^AT_EX and R

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Using `texreg` to Make Tables in R

`texreg` is a wrapper for a list of model objects you have already estimated in R. It automatically fills in the coefficients, standard errors, and significance for a wide range of model classes, and creates a nice-looking table that you can copy-paste from your R console directly into your L^AT_EX document.

How `texreg` works:

```
texreg(l, file = NA, single.row = FALSE, stars = c(0.001,  
  
0.01, 0.05), custom.model.names = NULL,  
custom.coef.names = NULL, custom.gof.names = NULL,  
custom.note = NULL, digits = 2, leading.zero = TRUE,  
symbol = "\\cdot", override.coef = 0, override.se = 0,  
override.pval = 0, omit.coef = NA, reorder.coef = NULL,  
reorder.gof = NULL, return.string = FALSE,  
ci.force = FALSE, ci.force.level = 0.95, ci.test = 0,  
bold = 0.00, center = TRUE,  
caption = "Statistical models", caption.above = FALSE,  
label = "table:coefficients", booktabs = FALSE,  
dcolumn = FALSE, sideways = FALSE, use.packages = TRUE,  
table = TRUE, no.margin = TRUE, scriptsize = FALSE,  
float.pos = "", ...)
```

Examples

	Dose Only	Supplement Only	W/ Interact
Intercept	7.42*** (1.26)	20.66*** (1.37)	11.55*** (1.58)
Dose	9.76*** (0.95)		7.81*** (1.20)
Supplement		-3.70 (1.93)	-8.26*** (2.24)
Dose*Sup			3.90* (1.69)
R ²	0.64	0.06	0.73
Adj. R ²	0.64	0.04	0.72
Num. obs.	60	60	60

*** $p < 0.001$, ** $p < 0.01$, * $p < 0.05$

Table 1: OLS Estimates

	Dose Only	Supplement Only	W/ Interact
Intercept	7.42*** (1.26)	20.66*** (1.37)	11.55*** (1.58)
Dose	9.76*** (0.95)		7.81*** (1.20)
Supplement		-3.70 (1.93)	-8.26*** (2.24)
Dose*Sup			3.90* (1.69)
R ²	0.64	0.06	0.73
Adj. R ²	0.64	0.04	0.72
Num. obs.	60	60	60

*** $p < 0.001$, ** $p < 0.01$, * $p < 0.05$

Table 2: OLS Estimates, this time with booktabs!

	Dose	Supplement	Interact
Dose	9.76*** (0.95)		7.81*** (1.20)
Supplement		-3.70 (1.93)	-8.26*** (2.24)
Dose*Sup			3.90* (1.69)
R ²	0.64	0.06	0.73
Adj. R ²	0.64	0.04	0.72
Num. obs.	60	60	60

*** $p < 0.001$, ** $p < 0.01$, * $p < 0.05$

Table 3: OLS Estimates, but not the intercept!

stargazer for L^AT_EX Tables

Another excellent package is **stargazer**, which works with a wide (but still limited) number of model objects, notably a lot of GLMs. Check out its help file in R to find out which functions it's compatible with.

How **stargazer** works:

```
stargazer( ...,
  type = "latex", title = "", style = "default",
  summary = TRUE, out = NULL,
  column.labels = NULL, column.separate = NULL,
  covariate.labels = NULL, dep.var.caption = NULL,
  dep.var.labels = NULL, dep.var.labels.include = TRUE,
  align = FALSE,
  coef = NULL, se = NULL, t = NULL, p = NULL,
  t.auto = TRUE, p.auto = TRUE,
  ci = FALSE, ci.custom = NULL,
  ci.level = 0.95, ci.separator = NULL,
  apply.coef = NULL, apply.se = NULL,
  apply.t = NULL, apply.p = NULL, apply.ci = NULL,
  column.sep.width = "5pt",
  decimal.mark = NULL, digit.separate = NULL,
  digit.separator = NULL,
  digits = NULL, digits.extra = NULL,
  float = TRUE, float.env = "table",
  font.size = NULL, header = TRUE,
  initial.zero = NULL,
  intercept.bottom = TRUE, intercept.top = FALSE,
  keep = NULL, keep.stat = NULL,
  label = "", model.names = NULL, model.numbers = NULL,
  no.space = NULL,
  notes = NULL, notes.align = NULL,
  notes.append = TRUE, notes.label = NULL,
  omit = NULL, omit.labels = NULL,
  omit.stat = NULL, omit.yes.no = c("Yes", "No"),
```

```

order = NULL, ord.intercepts = FALSE, perl = FALSE,
rq.se = "nid", selection.equation = FALSE,
single.row = FALSE,
star.char = NULL, star.cutoffs = NULL,
suppress.errors = FALSE, table.placement = "!htbp",
zero.component = FALSE, summary.logical = TRUE,
nobs = TRUE, mean.sd = TRUE, min.max = TRUE,
median = FALSE, iqr = FALSE )

```

Example

Table 4

	<i>Dependent variable:</i>		
	Dose Only	Tooth Length Supplement Only	w/Interact
	(1)	(2)	(3)
Dose	9.764*** (0.953)		7.811*** (1.195)
Supplement		−3.700* (1.932)	−8.255*** (2.236)
Dose*Supplement			3.904** (1.691)
Intercept	7.423*** (1.260)	20.663*** (1.366)	11.550*** (1.581)
Observations	60	60	60
R ²	0.644	0.059	0.730
Adjusted R ²	0.638	0.043	0.715
Residual Std. Error	4.601 (df = 58)	7.482 (df = 58)	4.083 (df = 56)
F Statistic	105.065*** (df = 1; 58)	3.668* (df = 1; 58)	50.355*** (df = 3; 56)

Note:

*p<0.1; **p<0.05; ***p<0.01