starpolishr: Post-polishing of stagazer output

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First note that the first argument in all starpolishr functions is a stargazer table, allowing for easy compatibility with the magrittr %>%. Also, all of the functions in the starpolishr package begin with star_for easy tab completion in emacs or rstudio.

Basic Stargazer Tables

To start, let's run a couple of regressions. These will be miles per gallon, mpg, on hp and cyl from the mtcars dataset. We'll also produce a basic stargazer table.

Table 1: Motor Car Regressions

	Dependent variable: mpg	
	(1)	(2)
hp	-0.068***	-0.019
	(0.010)	(0.015)
cyl		-2.265***
		(0.576)
Constant	30.099***	36.908***
	(1.634)	(2.191)
Observations	32	32
Note:	*p<0.1; **p<0.05; ***p<0.0	

Obviously, a potential confound is the vehicle weight, wt. For the purposes of this vignette, let's say we want the regressions that employ the wt variable in a separate table:

Table 2

	Dependent variable: mpg	
	(1)	(2)
hp	-0.032***	-0.018
	(0.009)	(0.012)
cyl		-0.942^{*}
v		(0.551)
wt	-3.878***	-3.167***
	(0.633)	(0.741)
Constant	37.227***	38.752***
	(1.599)	(1.787)
Observations	32	32
R^2	0.827	0.843
Note:	*p<0.1; **p<0.05; ***p<0.0	

Updating Regression Variable Names

We can improve a number of things about these tables. First, the left-hand and right-hand side variables are a bit cryptic. Let's clean this up using starpolishr star_lhs_names() and star_rhs_names() functions, which use regular expressions to replace variable names. The advantage of these functions is that they allow the variable names to span more than one line. As we want to apply these functions to both tables, let's create a function to minimize duplicative code.

```
clean_var_names <- function(table) {
  table %>%
    #Update the RHS names
    star_rhs_names(pattern = c("hp", "cyl", "wt"),
```

Now let's apply the function to the two stargazer tables and print

```
star.out.1 <- clean_var_names(star.out.1)
star.out.2 <- clean_var_names(star.out.2)
cat(star.out.1)</pre>
```

Table 3: Motor Car Regressions

	Dependent variable: Miles per Gallon	
	(1)	(2)
Hoarsepower	-0.068***	-0.019
	(0.010)	(0.015)
Number of		-2.265***
Engine Cylinders		(0.576)
Constant	30.099***	36.908***
	(1.634)	(2.191)
Observations	32	32
Note:	*p<0.1; **p<0.05; ***p<0.01	

```
cat(star.out.2)
```

Table 4

	Dependent variable: Miles per Gallon	
	(1)	(2)
Hoarsepower	-0.032***	-0.018
•	(0.009)	(0.012)
Number of		-0.942^*
Engine Cylinders		(0.551)
Vehicle	-3.878***	-3.167***
Weight	(0.633)	(0.741)
Constant	37.227***	38.752***
	(1.599)	(1.787)
Observations	32	32
\mathbb{R}^2	0.827	0.843
Note:	*p<0.1; **p<0.05; ***p<0.01	

Create a table with 2 panels and add custom notes

Now let's combine the tables into a two panel single table using the star_panel() function and add custom table notes using the star_notes_tex() function. Finally, we'll print the output

Table 5: Motor Car Regressions

	Dependent variable: Miles per Gallon	
	(1)	(2)
Panel A: Reg W	ithout Weig	ht
Hoarsepower	-0.068***	-0.019
	(0.010)	(0.015)
Number of		-2.265***
Engine Cylinders		(0.576)
Constant	30.099***	36.908***
	(1.634)	(2.191)
Panel B: Reg W	ith Weight	
Hoarsepower	-0.032***	-0.018
	(0.009)	(0.012)
Number of		-0.942*
Engine Cylinders		(0.551)
Vehicle	-3.878***	-3.167***
	(0.000)	(0.741)
	(0.633)	(0.141)
Weight Constant	(0.633)	38.752***
Weight	, ,	, ,

Notes: Standard errors are in parentheses