

ETC5523: Communicating with Data

Tutorial 3 Supp B Solution

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Week 3

Table 1 is a better table than the one presented in Table 2 since it follows the guidelines for presentation of tables: (i) numbers are aligned to the right and texts are aligned to the left and (ii) the precision is adjusted. You can further adjust this so that the precision are adjusted per row or cell instead. This makes sense in this case as each cell represents a statistic for a different covariate (which measure quite different things) so there is less need to compare across cells. The only one that can serve as a valid comparison is the sample size (N).

Table 4 is quite difficult to make and **stargazer** does a lot under the hood. You should nonetheless learn how to do it by “hand” so that you are not constrained to the result of **stargazer** alone. Study the code below and make sure you understand it.

Table 1: Summary statistics

Statistic	N	Mean	St. Dev.	Min	Pctl(25)	Pctl(75)	Max
Bill length (mm)	342	43.92	5.46	32.1	39.2	48.5	59.6
Bill depth (mm)	342	17.15	1.97	13.1	15.6	18.7	21.5
Flipper length (mm)	342	200.92	14.06	172.0	190.0	213.0	231.0
Body mass (g)	342	4,201.75	801.95	2700.0	3550.0	4750.0	6300.0
Year	344	2,008.03	0.82	2007.0	2007.0	2009.0	2009.0

Table 2: Original summary statistics table

Statistic	N	Mean	St. Dev.	Min	Pctl(25)	Pctl(75)	Max
Bill length (mm)	342	43.922	5.460	32.100	39.225	48.500	59.600
Bill depth (mm)	342	17.151	1.975	13.100	15.600	18.700	21.500
Flipper length (mm)	342	200.915	14.062	172.000	190.000	213.000	231.000
Body mass (g)	342	4,201.754	801.955	2,700.000	3,550.000	4,750.000	6,300.000
Year	344	2,008.029	0.818	2,007	2,007	2,009	2,009

Table 3: Regression results table

		<i>Dependent variable:</i>	
		Bill length (mm)	
		<i>OLS</i>	<i>robust linear</i>
		(1)	(2)
Species	Chinstrap	9.566***	9.911***
(Ref: Adelie)		(0.350)	(0.390)
	Gentoo	6.404***	6.687***
		(1.030)	(1.028)
Island	Dream		-0.538
(Ref: Biscoe)			(0.412)
	Torgersen		0.034
			(0.430)
Bill depth (mm)		0.313**	0.32**
		(0.154)	(0.142)
Flipper length (mm)		0.069***	0.062***
		(0.023)	(0.023)
Body mass (g)		0.001**	0.001**
		(0.000)	(0.000)
Sex	Male	2.03***	2.331***
(Ref: Female)		(0.389)	(0.356)
Year			0.289*
			(0.149)
Observations		333	333
R^2		0.839	
Adjusted R^2		0.836	
Residual Std. Error		2.217 (df = 326)	1.889 (df = 323)
F Statistic		282.27*** (df = 6; 326)	

Table 4: The original regression results table

		<i>Dependent variable:</i>	
		Bill length (mm)	
		<i>OLS</i>	<i>robust linear</i>
		(1)	(2)
Species	Chinstrap	9.566*** (0.350)	9.911*** (0.390)
	Genotoo	6.404*** (1.030)	6.687*** (1.028)
Island	Dream		−0.538 (0.412)
(Ref: Adelie)	Torgersen		0.034 (0.430)
Bill depth (mm)		0.313** (0.154)	0.320** (0.142)
Flipper length (mm)		0.069*** (0.023)	0.062*** (0.023)
Body mass (g)		0.001** (0.0004)	0.001** (0.0004)
Sex	Male	2.030*** (0.389)	2.331*** (0.356)
(Ref: Female)			
Year			0.289* (0.149)
Constant		15.017*** (4.374)	−563.241* (297.257)
Observations		333	333
R ²		0.839	
Adjusted R ²		0.836	
Residual Std. Error		2.217 (df = 326)	1.889 (df = 323)
F Statistic		282.270*** (df = 6; 326)	

Note:

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