## The Role of Text in Visualizations: How Annotations Shape Perceptions of Bias and Influence Predictions

Category: Research Paper Type: Evaluation

Table 1. Table depicting the pre-registered baseline and fully saturated models for predictions in Study 1.

	Dependent variable:		
	Prediction Likelihood		
Study 1	(Baseline)	(Saturated)	
Line Chart	-0.091 (0.494)	-0.012 (0.494)	
Prediction Control	-0.648(0.624)	-0.985(1.046)	
<b>Prediction Unaligned</b>	$-1.875^{**}$ (0.570)	-2.537*(1.131)	
L3		-0.542(0.929)	
L2		-1.213(0.971)	
Title		-0.185(0.777)	
Appraisal Unaligned		0.684 (0.604)	
Prediction Unaligned * L3		-0.534(1.399)	
Prediction Unaligned * L2		0.628 (1.406)	
Prediction Control * Title		-0.454(1.252)	
Prediction Unaligned * Title		1.339 (1.144)	
Constant	12.200** (0.35)	13.629** (0.81)	
Observations	640	640	
Log Likelihood	-2,080.654	-2,066.421	
Akaike Inf. Crit.	4,171.308	4,160.841	
Bayesian Inf. Crit.	4,193.615	4,223.302	
	*	-0.05 ** -0.01	

\*p<0.05; \*\*p<0.01

Table 2. Table depicting the pre-registered baseline and fully saturated models for appraisals in Study 1.

	Dependent variable: Appraisal Likelihood		
Study 1	(Baseline)	(Saturated)	
Line Chart	0.041 (0.546)	0.288 (0.514)	
Appraisal Control	$-4.781^{**}$ (0.751)	-4.374** (1.001)	
Appraisal Unmatched	-5.908** (0.675)	-5.290** (1.358)	
L3		0.869 (0.880)	
L2		1.002 (0.908)	
Title		-0.417(0.740)	
<b>Prediction Unaligned</b>		1.242* (0.599)	
Appraisal Unmatched * L3		-1.305(1.568)	
Appraisal Unmatched * L2		-1.831(1.563)	
Appraisal Control * Title		0.222 (2.230)	
Appraisal Unmatched * Title		0.740 (1.246)	
Constant	5.350** (0.81)	8.018** (1.29)	
Observations	640	640	
Log Likelihood	-2,145.417	-2,093.269	
Akaike Inf. Crit.	4,300.833	4,214.539	
Bayesian Inf. Crit.	4,323.141	4,276.999	

\*p<0.05; \*\*p<0.01

Table 3. Table depicting the pre-registered baseline and fully saturated models for predictions in Study 2.

	Dependent variable: Prediction Likelihood	
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Study 2	(Baseline)	(Saturated)
Line Chart	0.936	0.985*
	(0.478)	(0.479)
Prediction No-Side	-1.790	-1.289
	(0.953)	(1.202)
Prediction Unaligned	-1.216*	-1.085
C	(0.590)	(1.164)
Low Bias		1.352
		(1.078)
Prediction Prime		-0.639
		(1.086)
Prediction Unaligned * Low Bias		-2.709
C		(1.676)
Prediction No-Side * Prediction Prime		0.057
		(1.367)
Prediction Unaligned * Prediction Prime		0.897
C		(1.652)
Low Bias * Prediction Prime		-0.611
		(1.541)
Prediction Unaligned * Low Bias *		2.976
Prediction Prime		(2.360)
Constant	12.822**	12.588**
	(0.644)	(0.903)
Observations	660	660
Log Likelihood	-2,158.263	-2,125.213
Akaike Inf. Crit.		4,278.425
Bayesian Inf. Crit.	4,316.822	4,341.317
	* 0	05 ** .0.01

\*p<0.05; \*\*p<0.01

Table 4. Table depicting the pre-registered baseline and fully saturated models for appraisals in Study 2.

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	Appraisal 1	Appraisal Likelihood	
Study 2	(Baseline)	(Saturated)	
Line Chart	0.301	0.405	
	(0.468)	(0.453)	
Appraisal No-Side	-4.638**	-4.815**	
	(0.529)	(0.856)	
Appraisal Unaligned	-5.130**	-4.360**	
	(0.629)	(0.634)	
Low Bias		-2.508**	
		(0.919)	
Prediction Unaligned		3.015**	
		(0.790)	
Prediction Prime		-0.276	
		(0.781)	
Low Bias * Prediction Unaligned		-1.965	
		(1.125)	
Low Bias * Prediction Prime		-0.259	
		(1.106)	
No-Side * Prediction Prime		-0.073	
		(1.105)	
Constant	7.371**	7.671**	
	(0.414)	(0.702)	
Observations	660	660	
Log Likelihood	-2,117.513		
Akaike Inf. Crit.	4,249.025		
Bayesian Inf. Crit.	4,280.471	4,257.781	

\*p<0.05; \*\*p<0.01