

# Results

## ANOVA

ANOVA - count

	Sum of Squares	df	Mean Square	F	p
category	92.6	1	92.6	0.00351	0.953
models	3.00e+6	5	599552.9	22.74483	< .001
category * models	71588.4	5	14317.7	0.54316	0.743
Residuals	2.53e+6	96	26360.0		

[3]

## Post Hoc Tests

Post Hoc Comparisons - category

Comparison						
category	category	Mean Difference	SE	df	t	Ptukey
Clumped	- Spaced	1.85	31.2	96.0	0.0593	0.953

Note. Comparisons are based on estimated marginal means

Comparison					Mean Difference	SE	df	t	Ptukey
category	models	category	models						
Clumped	SAM	-	Clumped	countr	-227.67	76.5	96.0	-2.9746	0.133
		-	Clumped	deepdataspace	-330.00	76.5	96.0	-4.3117	0.002
		-	Clumped	grounded_countingDINO	-49.78	76.5	96.0	-0.6504	1.000
		-	Clumped	real	-422.56	76.5	96.0	-5.5210	< .001
		-	Clumped	training_free_obj	73.56	76.5	96.0	0.9611	0.998
		-	Spaced	SAM	-42.00	76.5	96.0	-0.5488	1.000
		-	Spaced	countr	-220.56	76.5	96.0	-2.8817	0.164
		-	Spaced	deepdataspace	-224.78	76.5	96.0	-2.9369	0.145
		-	Spaced	grounded_countingDINO	-104.78	76.5	96.0	-1.3690	0.967
		-	Spaced	real	-422.56	76.5	96.0	-5.5210	< .001
		-	Spaced	training_free_obj	69.33	76.5	96.0	0.9059	0.999
		-	Clumped	deepdataspace	-102.33	76.5	96.0	-1.3371	0.972
	countr	-	Clumped	grounded_countingDINO	177.89	76.5	96.0	2.3242	0.467
		-	Clumped	real	-194.89	76.5	96.0	-2.5464	0.325
		-	Clumped	training_free_obj	301.22	76.5	96.0	3.9357	0.008
		-	Spaced	SAM	185.67	76.5	96.0	2.4259	0.399
		-	Spaced	countr	7.11	76.5	96.0	0.0929	1.000
		-	Spaced	deepdataspace	2.89	76.5	96.0	0.0377	1.000
		-	Spaced	grounded_countingDINO	122.89	76.5	96.0	1.6056	0.903
		-	Spaced	real	-194.89	76.5	96.0	-2.5464	0.325
		-	Spaced	training_free_obj	297.00	76.5	96.0	3.8805	0.010
	deepdataspace	-	Clumped	grounded_countingDINO	280.22	76.5	96.0	3.6613	0.020
		-	Clumped	real	-92.56	76.5	96.0	-1.2093	0.987
		-	Clumped	training_free_obj	403.56	76.5	96.0	5.2728	< .001
		-	Spaced	SAM	288.00	76.5	96.0	3.7629	0.014
		-	Spaced	countr	109.44	76.5	96.0	1.4300	0.955
		-	Spaced	deepdataspace	105.22	76.5	96.0	1.3748	0.966
		-	Spaced	grounded_countingDINO	225.22	76.5	96.0	2.9427	0.143
		-	Spaced	real	-92.56	76.5	96.0	-1.2093	0.987
		-	Spaced	training_free_obj	399.33	76.5	96.0	5.2176	< .001
	grounded_countingDINO	-	Clumped	real	-372.78	76.5	96.0	-4.8706	< .001
		-	Clumped	training_free_obj	123.33	76.5	96.0	1.6114	0.901
		-	Spaced	SAM	7.78	76.5	96.0	0.1016	1.000
		-	Spaced	countr	-170.78	76.5	96.0	-2.2313	0.532
		-	Spaced	deepdataspace	-175.00	76.5	96.0	-2.2865	0.493
		-	Spaced	grounded_countingDINO	-55.00	76.5	96.0	-0.7186	1.000
		-	Spaced	real	-372.78	76.5	96.0	-4.8706	< .001
		-	Spaced	training_free_obj	119.11	76.5	96.0	1.5563	0.920
	real	-	Clumped	training_free_obj	496.11	76.5	96.0	6.4821	< .001
		-	Spaced	SAM	380.56	76.5	96.0	4.9722	< .001
		-	Spaced	countr	202.00	76.5	96.0	2.6393	0.273
		-	Spaced	deepdataspace	197.78	76.5	96.0	2.5841	0.303
		-	Spaced	grounded_countingDINO	317.78	76.5	96.0	4.1520	0.004
		-	Spaced	real	4.71e-14	76.5	96.0	6.15e-16	1.000
		-	Spaced	training_free_obj	491.89	76.5	96.0	6.4269	< .001
	training_free_obj	-	Spaced	SAM	-115.56	76.5	96.0	-1.5098	0.934

Note. Comparisons are based on estimated marginal means

Comparison				Mean Difference	SE	df	t	Ptukey
category	models	category	models					
Spaced	SAM	- Spaced	countr	-294.11	76.5	96.0	-3.8428	0.011
		- Spaced	deepdataspace	-298.33	76.5	96.0	-3.8979	0.009
		- Spaced	grounded_countingDINO	-178.33	76.5	96.0	-2.3301	0.463
		- Spaced	real	-496.11	76.5	96.0	-6.4821	< .001
		- Spaced	training_free_obj	-4.22	76.5	96.0	-0.0552	1.000
	countr	- Spaced	countr	-178.56	76.5	96.0	-2.3330	0.461
		- Spaced	deepdataspace	-182.78	76.5	96.0	-2.3881	0.424
		- Spaced	grounded_countingDINO	-62.78	76.5	96.0	-0.8202	1.000
		- Spaced	real	-380.56	76.5	96.0	-4.9722	< .001
		- Spaced	training_free_obj	111.33	76.5	96.0	1.4547	0.949
	deepdataspace	- Spaced	deepdataspace	-4.22	76.5	96.0	-0.0552	1.000
		- Spaced	grounded_countingDINO	115.78	76.5	96.0	1.5127	0.933
		- Spaced	real	-202.00	76.5	96.0	-2.6393	0.273
		- Spaced	training_free_obj	289.89	76.5	96.0	3.7876	0.013
		- Spaced	grounded_countingDINO	120.00	76.5	96.0	1.5679	0.916
	grounded_countingDINO	- Spaced	real	-197.78	76.5	96.0	-2.5841	0.303
		- Spaced	training_free_obj	294.11	76.5	96.0	3.8428	0.011
		- Spaced	real	-317.78	76.5	96.0	-4.1520	0.004
		- Spaced	training_free_obj	174.11	76.5	96.0	2.2749	0.501
		- Spaced	training_free_obj	491.89	76.5	96.0	6.4269	< .001

Note. Comparisons are based on estimated marginal means

[4]

## References

- [1] The jamovi project (2022). *jamovi*. (Version 2.3) [Computer Software]. Retrieved from <https://www.jamovi.org>.
- [2] R Core Team (2021). *R: A Language and environment for statistical computing*. (Version 4.1) [Computer software]. Retrieved from <https://cran.r-project.org>. (R packages retrieved from MRAN snapshot 2022-01-01).
- [3] Fox, J., & Weisberg, S. (2020). *car: Companion to Applied Regression*. [R package]. Retrieved from <https://cran.r-project.org/package=car>.
- [4] Lenth, R. (2020). *emmeans: Estimated Marginal Means, aka Least-Squares Means*. [R package]. Retrieved from <https://cran.r-project.org/package=emmeans>.