Oneway

Descriptives

ndcg ndcg

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean Lower Bound
content	1269	,67865086120	,25525577052	,00716547125	,66459337732
random	974	,60675498254	,26733647403	,00856601316	,58994499490
sentiment	1025	,69551245570	,25147671148	,00785481281	,68009908731
topics	1128	,69825544381	,25703373949	,00765306822	,68323957943
Total	4396	,67168328107	,25991928459	,00392021297	,66399768827

Descriptives

ndcg ndcg

	95% Confidence Interval for Mean Upper Bound	Minimum	Maximum
content	,69270834508	,35620718711	1,0000000000
random	,62356497019	,17810359355	1,0000000000
sentiment	,71092582410	,35620718711	1,0000000000
topics	,71327130820	,35620718711	1,0000000000
Total	,67936887387	,17810359355	1,0000000000

ANOVA

ndcg ndcg

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	5,546	3	1,849	27,867	<,001
Within Groups	291,371	4392	,066		
Total	296,918	4395			

ANOVA Effect Sizes[a]

		Point Estimate	95% Confidence Interval Lower	Upper
ndcg ndcg	Eta-squared	,019	,011	,027
	Epsilon-squared	,018	,011	,026
	Omega-squared Fixed-effect	,018	,010	,026
	Omega-squared Random-effect	,006	,004	,009

a. Eta-squared and Epsilon-squared are estimated based on the fixed-effect model.

Post Hoc Tests

Multiple Comparisons

Dependent Variable: ndcg ndcg

	(I) condition_int	(J) condition_int	Mean Difference (I-J)	Std. Error	Sig.
Tukey HSD	content	random	,0718958787*	,01097227386	<,001
		sentiment	-,0168615945	,01081673661	,402
		topics	-,0196045826	,01054000817	,246
	random	content	-,0718958787*	,01097227386	<,001
		sentiment	-,0887574732*	,01152543372	<,001
		topics	-,0915004613*	,01126612639	<,001
	sentiment	content	,01686159450	,01081673661	,402
		random	,0887574732*	,01152543372	<,001
		topics	-,0027429881	,01111470202	,995
	topics	content	,01960458261	,01054000817	,246
		random	,0915004613*	,01126612639	<,001
		sentiment	,00274298811	,01111470202	,995
Bonferroni	content	random	,0718958787*	,01097227386	<,001
		sentiment	-,0168615945	,01081673661	,715
		topics	-,0196045826	,01054000817	,378
	random	content	-,0718958787*	,01097227386	<,001
		sentiment	-,0887574732*	,01152543372	<,001
		topics	-,0915004613*	,01126612639	<,001
	sentiment	content	,01686159450	,01081673661	,715
		random	,0887574732*	,01152543372	<,001
		topics	-,0027429881	,01111470202	1,000
	topics	content	,01960458261	,01054000817	,378
		random	,0915004613*	,01126612639	<,001
		sentiment	,00274298811	,01111470202	1,000

Multiple Comparisons

Dependent Variable: ndcg ndcg

	(I) condition_int	(J) condition_int	95% Confidence Interval Lower Bound	95% Confidence Interval Upper Bound
Tukey HSD	content	random	,04369696535	,10009479197
		sentiment	-,0446607747	,01093758566
		topics	-,0466925664	,00748340120
	random	content	-,1000947920	-,0436969654
		sentiment	-,1183780158	-,0591369305
		topics	-,1204545801	-,0625463424
	sentiment	content	-,0109375857	,04466077466
		random	,05913693048	,11837801584
		topics	-,0313079440	,02582196776
	topics	content	-,0074834012	,04669256642
		random	,06254634242	,12045458011
		sentiment	-,0258219678	,03130794398
Bonferroni	content	random	,04293507506	,10085668225
		sentiment	-,0454118648	,01168867578
		topics	-,0474244411	,00821527592
	random	content	-,1008566823	-,0429350751
		sentiment	-,1191783163	-,0583366300
		topics	-,1212368749	-,0617640477
	sentiment	content	-,0116886758	,04541186479
		random	,05833663000	,11917831632
		topics	-,0320797242	,02659374795
	topics	content	-,0082152759	,04742444114
		random	,06176404767	,12123687487
		sentiment	-,0265937479	,03207972416

*. The mean difference is significant at the 0.05 level.

Homogeneous Subsets

ndcg ndcg

	condition_int	N	Subset for alpha = 0.05	
			1	2
Tukey HSD[a,b]	random	974	,60675498254	
	content	1269		,67865086120
	sentiment	1025		,69551245570
	topics	1128		,69825544381
	Sig.		1,000	,285

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 1087,888.

b. The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.