

# 1 Summaries of Parametric Statistics Analysis for the scores of Value/Usefulness

Table 1: Summary of one-way ANOVA results for the scores of Value/Usefulness

	Sum Sq	Df	F value	Pr(>F)	Sig
Age.(Intercept)	736.855	1	640.178	0.000	
Age.Age	3.813	2	1.656	0.204	
Age.Residuals	43.739	38			
Sex.(Intercept)	963.848	1	1169.448	0.000	
Sex.Sex	2.328	1	2.824	0.102	
Sex.Residuals	28.022	34			
AcademicDegree.(Intercept)	478.230	1	1475.984	0.000	
AcademicDegree.AcademicDegree	0.304	2	0.469	0.631	
AcademicDegree.Residuals	7.776	24			
KnownDomainContent.(Intercept)	1194.804	1	1009.232	0.000	
KnownDomainContent.KnownDomainContent	2.305	1	1.947	0.171	
KnownDomainContent.Residuals	46.171	39			
LikeDomainContent.(Intercept)	1197.034	1	1136.398	0.000	
LikeDomainContent.LikeDomainContent	14.564	1	13.826	0.001	**
LikeDomainContent.Residuals	41.081	39			
LikeActionGames.(Intercept)	1205.541	1	919.144	0.000	
LikeActionGames.LikeActionGames	0.779	1	0.594	0.445	
LikeActionGames.Residuals	52.464	40			
LikeAdventureGames.(Intercept)	1022.867	1	1072.889	0.000	
LikeAdventureGames.LikeAdventureGames	0.012	1	0.013	0.911	
LikeAdventureGames.Residuals	34.322	36			
LikeFightingGames.(Intercept)	1056.674	1	799.867	0.000	
LikeFightingGames.LikeFightingGames	1.302	1	0.986	0.327	
LikeFightingGames.Residuals	52.842	40			
LikeFictionGames.(Intercept)	1110.900	1	1533.879	0.000	
LikeFictionGames.LikeFictionGames	0.756	1	1.044	0.314	
LikeFictionGames.Residuals	23.900	33			
LikePlatformerGames.(Intercept)	1175.680	1	1239.443	0.000	
LikePlatformerGames.LikePlatformerGames	0.186	1	0.196	0.661	
LikePlatformerGames.Residuals	34.148	36			
LikePuzzleGames.(Intercept)	913.952	1	1906.904	0.000	
LikePuzzleGames.LikePuzzleGames	3.200	1	6.677	0.015	*
LikePuzzleGames.Residuals	13.420	28			
LikeRacingGames.(Intercept)	948.656	1	712.030	0.000	
LikeRacingGames.LikeRacingGames	10.454	1	7.846	0.008	**
LikeRacingGames.Residuals	54.625	41			
LikeMusicalGames.(Intercept)	996.450	1	956.615	0.000	
LikeMusicalGames.LikeMusicalGames	0.397	1	0.381	0.541	
LikeMusicalGames.Residuals	38.541	37			
LikeMMORPGGames.(Intercept)	866.907	1	2085.113	0.000	

Table 1: *(continued)*

	Sum Sq	Df	F value	Pr(>F)	Sig
LikeMMORPGGames.LikeMMORPGGames	0.193	1	0.463	0.502	
LikeMMORPGGames.Residuals	10.394	25			
LikeShooterGames.(Intercept)	1191.601	1	622.725	0.000	
LikeShooterGames.LikeShooterGames	9.292	1	4.856	0.032	*
LikeShooterGames.Residuals	89.936	47			
LikeSimulationGames.(Intercept)	1062.375	1	1113.948	0.000	
LikeSimulationGames.LikeSimulationGames	0.000	1	0.000	0.984	
LikeSimulationGames.Residuals	34.333	36			
LikeSportsGames.(Intercept)	554.979	1	585.321	0.000	
LikeSportsGames.LikeSportsGames	0.200	1	0.211	0.649	
LikeSportsGames.Residuals	34.134	36			
LikeStrategyGames.(Intercept)	814.151	1	480.908	0.000	
LikeStrategyGames.LikeStrategyGames	11.111	1	6.563	0.014	*
LikeStrategyGames.Residuals	77.876	46			
LikeNovelGames.(Intercept)	737.905	1	895.171	0.000	
LikeNovelGames.LikeNovelGames	1.123	1	1.363	0.251	
LikeNovelGames.Residuals	28.027	34			

Signif. codes: 0 '\*\*\*' 0.01 '\*\*' 0.05

Table 2: Descriptive statistics and Tukey post-hoc test results for the scores of Value/Usefulness

	N	mean	lsmean	SE	df	lwr.CI	upr.CI	t.ratio	p.value	p.adj	g	sig	mag
Age.adolescence	7	6.086	6.086	0.406	38	5.265	6.907						
Age.adulthood	5	5.320	5.320	0.480	38	4.349	6.291						
Age.adolescence - adulthood	12	0.766	0.766	0.628		-0.766	2.298	1.219	0.450	0.450	0.845		
Age.adolescence1	7	6.086	6.086	0.406	38	5.265	6.907						
Age.emerging-adulthood	29	5.269	5.269	0.199	38	4.866	5.672						
Age.adolescence - emerging-adulthood	36	0.817	0.817	0.452		-0.285	1.919	1.808	0.181	0.181	0.730		
Age.adulthood1	5	5.320	5.320	0.480	38	4.349	6.291						
Age.emerging-adulthood1	29	5.269	5.269	0.199	38	4.866	5.672						
Age.adulthood - emerging-adulthood	34	0.051	0.051	0.520		-1.216	1.318	0.098	0.995	0.995	0.045		
Sex.female	10	6.060	6.060	0.287	34	5.477	6.643						
Sex.male	26	5.492	5.492	0.178	34	5.130	5.854						
Sex.female - male	36	0.568	0.568	0.338		-0.119	1.254	1.680	0.102	0.102	0.611		
AcademicDegree.basic-school	8	6.025	6.025	0.201	24	5.610	6.440						
AcademicDegree.postgraduate	2	6.200	6.200	0.402	24	5.369	7.031						
AcademicDegree.basic-school - postgraduate	10	-0.175	-0.175	0.450		-1.299	0.949	-0.389	0.920	0.920	-0.390		
AcademicDegree.basic-school1	8	6.025	6.025	0.201	24	5.610	6.440						
AcademicDegree.undergraduate	17	5.859	5.859	0.138	24	5.574	6.144						
AcademicDegree.basic-school - undergraduate	25	0.166	0.166	0.244		-0.443	0.776	0.681	0.777	0.777	0.276		
AcademicDegree.postgraduate1	2	6.200	6.200	0.402	24	5.369	7.031						
AcademicDegree.undergraduate1	17	5.859	5.859	0.138	24	5.574	6.144						
AcademicDegree.postgraduate - undergraduate	19	0.341	0.341	0.426		-0.721	1.404	0.802	0.706	0.706	0.529		
KnownDomainContent.no	23	5.200	5.200	0.227	39	4.741	5.659						
KnownDomainContent.yes	18	5.678	5.678	0.256	39	5.159	6.197						
KnownDomainContent.no - yes	41	-0.478	-0.478	0.342		-1.170	0.215	-1.395	0.171	0.171	-0.431		
LikeDomainContent.no	23	4.843	4.843	0.214	39	4.411	5.276						
LikeDomainContent.yes	18	6.044	6.044	0.242	39	5.555	6.534						
LikeDomainContent.no - yes	41	-1.201	-1.201	0.323		-1.854	-0.548	-3.718	0.001	0.001	-1.148	**	large

Table 2: (continued)

	N	mean	lsmean	SE	df	lwr.CI	upr.CI	t.ratio	p.value	p.adj	g	sig	mag
LikeActionGames.no	22	5.227	5.227	0.244	40	4.734	5.721						
LikeActionGames.yes	20	5.500	5.500	0.256	40	4.982	6.018						
LikeActionGames.no - yes	42	-0.273	-0.273	0.354		-0.988	0.442	-0.771	0.445	0.445	-0.234		
LikeAdventureGames.no	12	5.600	5.600	0.282	36	5.028	6.172						
LikeAdventureGames.yes	26	5.562	5.562	0.191	36	5.173	5.950						
LikeAdventureGames.no - yes	38	0.038	0.038	0.341		-0.653	0.730	0.113	0.911	0.911	0.039		
LikeFightingGames.no	29	5.234	5.234	0.213	40	4.803	5.666						
LikeFightingGames.yes	13	5.615	5.615	0.319	40	4.971	6.260						
LikeFightingGames.no - yes	42	-0.381	-0.381	0.384		-1.156	0.394	-0.993	0.327	0.327	-0.325		
LikeFictionGames.no	21	5.600	5.600	0.186	33	5.222	5.978						
LikeFictionGames.yes	14	5.900	5.900	0.227	33	5.437	6.363						
LikeFictionGames.no - yes	35	-0.300	-0.300	0.294		-0.897	0.297	-1.022	0.314	0.314	-0.344		
LikePlatformerGames.no	20	5.640	5.640	0.218	36	5.198	6.082						

Table 2: (continued)

	N	mean	lsmean	SE	df	lwr.CI	upr.CI	t.ratio	p.value	p.adj	g	sig	mag
LikePlatformerGames.yes	18	5.500	5.500	0.230	36	5.034	5.966						
LikePlatformerGames.no - yes	38	0.140	0.140	0.316		-0.502	0.782	0.442	0.661	0.661	0.141		
LikePuzzleGames.no	12	5.300	5.300	0.200	28	4.891	5.709						
LikePuzzleGames.yes	18	5.967	5.967	0.163	28	5.632	6.301						
LikePuzzleGames.no - yes	30	-0.667	-0.667	0.258		-1.195	-0.138	-2.584	0.015	0.015	-0.937	*	large
LikeRacingGames.no	29	5.538	5.538	0.214	41	5.105	5.971						
LikeRacingGames.yes	14	4.486	4.486	0.308	41	3.863	5.109						
LikeRacingGames.no - yes	43	1.052	1.052	0.376		0.294	1.811	2.801	0.008	0.008	0.895	**	large
LikeMusicalGames.no	27	5.585	5.585	0.196	37	5.187	5.983						
LikeMusicalGames.yes	12	5.367	5.367	0.295	37	4.770	5.964						
LikeMusicalGames.no - yes	39	0.219	0.219	0.354		-0.499	0.936	0.617	0.541	0.541	0.210		
LikeMMORPGGames.no	12	5.617	5.617	0.186	25	5.233	6.000						
LikeMMORPGGames.yes	15	5.787	5.787	0.166	25	5.444	6.130						
LikeMMORPGGames.no - yes	27	-0.170	-0.170	0.250		-0.684	0.344	-0.681	0.502	0.502	-0.256		
LikeShooterGames.no	26	5.377	5.377	0.271	47	4.831	5.923						
LikeShooterGames.yes	23	4.504	4.504	0.288	47	3.924	5.085						
LikeShooterGames.no - yes	49	0.873	0.873	0.396		0.076	1.669	2.204	0.032	0.032	0.621	*	medium
LikeSimulationGames.no	25	5.576	5.576	0.195	36	5.180	5.972						
LikeSimulationGames.yes	13	5.569	5.569	0.271	36	5.020	6.119						
LikeSimulationGames.no - yes	38	0.007	0.007	0.334		-0.670	0.684	0.020	0.984	0.984	0.007		
LikeSportsGames.no	33	5.545	5.545	0.170	36	5.202	5.889						
LikeSportsGames.yes	5	5.760	5.760	0.435	36	4.877	6.643						
LikeSportsGames.no - yes	38	-0.215	-0.215	0.467		-1.162	0.733	-0.459	0.649	0.649	-0.216		
LikeStrategyGames.no	12	4.200	4.200	0.376	46	3.444	4.956						
LikeStrategyGames.yes	36	5.311	5.311	0.217	46	4.875	5.748						
LikeStrategyGames.no - yes	48	-1.111	-1.111	0.434		-1.984	-0.238	-2.562	0.014	0.014	-0.840	*	large
LikeNovelGames.no	29	5.497	5.497	0.169	34	5.154	5.839						
LikeNovelGames.yes	7	5.943	5.943	0.343	34	5.245	6.640						

Table 2: (*continued*)

	N	mean	lsmean	SE	df	lwr.CI	upr.CI	t.ratio	p.value	p.adj	g	sig	mag
LikeNovelGames.no - yes	36	-0.446	-0.446	0.382		-1.223	0.331	-1.167	0.251	0.251	-0.481		

Signif. codes: 0 ‘\*\*\*’ 0.01 ‘\*’ 0.05