

1 Summaries of Parametric Statistics Analysis for the scores of Perceived Competence

Table 1: Summary of one-way ANOVA results for the scores of Perceived Competence

	Sum Sq	Df	F value	Pr(>F)	Sig
Age.(Intercept)	624.023	1	273.048	0.000	
Age.Age	2.510	2	0.549	0.581	
Age.Residuals	105.128	46			
Sex.(Intercept)	770.208	1	336.406	0.000	
Sex.Sex	0.031	1	0.014	0.908	
Sex.Residuals	107.607	47			
AcademicDegree.(Intercept)	394.742	1	278.601	0.000	
AcademicDegree.AcademicDegree	19.625	2	6.925	0.003	**
AcademicDegree.Residuals	59.509	42			
KnownDomainContent.KnownDomainContent	7.848	1	4.297	0.044	
KnownDomainContent.Residuals	80.365	44			
LikeDomainContent.(Intercept)	1013.055	1	535.132	0.000	
LikeDomainContent.LikeDomainContent	0.365	1	0.193	0.663	
LikeDomainContent.Residuals	85.189	45			
LikeActionGames.(Intercept)	992.878	1	434.051	0.000	
LikeActionGames.LikeActionGames	0.127	1	0.056	0.815	
LikeActionGames.Residuals	107.511	47			
LikeAdventureGames.(Intercept)	848.691	1	401.252	0.000	
LikeAdventureGames.LikeAdventureGames	8.228	1	3.890	0.054	
LikeAdventureGames.Residuals	99.410	47			
LikeFightingGames.(Intercept)	896.857	1	396.066	0.000	
LikeFightingGames.LikeFightingGames	1.211	1	0.535	0.468	
LikeFightingGames.Residuals	106.427	47			
LikeFictionGames.(Intercept)	956.256	1	420.780	0.000	
LikeFictionGames.LikeFictionGames	0.827	1	0.364	0.549	
LikeFictionGames.Residuals	106.811	47			
LikePlatformerGames.LikePlatformerGames	9.136	1	5.683	0.022	
LikePlatformerGames.Residuals	70.737	44			
LikePuzzleGames.(Intercept)	981.123	1	428.911	0.000	
LikePuzzleGames.LikePuzzleGames	0.127	1	0.056	0.815	
LikePuzzleGames.Residuals	107.511	47			
LikeRacingGames.(Intercept)	858.004	1	375.920	0.000	
LikeRacingGames.LikeRacingGames	0.365	1	0.160	0.691	
LikeRacingGames.Residuals	107.273	47			
LikeMusicalGames.(Intercept)	809.571	1	353.512	0.000	
LikeMusicalGames.LikeMusicalGames	0.005	1	0.002	0.964	
LikeMusicalGames.Residuals	107.634	47			
LikeMMORPGGames.(Intercept)	981.319	1	449.929	0.000	
LikeMMORPGGames.LikeMMORPGGames	5.129	1	2.352	0.132	
LikeMMORPGGames.Residuals	102.509	47			

Table 1: *(continued)*

	Sum Sq	Df	F value	Pr(>F)	Sig
LikeShooterGames.(Intercept)	985.166	1	436.639	0.000	
LikeShooterGames.LikeShooterGames	1.595	1	0.707	0.405	
LikeShooterGames.Residuals	106.044	47			
LikeSimulationGames.(Intercept)	880.056	1	384.571	0.000	
LikeSimulationGames.LikeSimulationGames	0.083	1	0.036	0.850	
LikeSimulationGames.Residuals	107.555	47			
LikeSportsGames.(Intercept)	417.840	1	182.601	0.000	
LikeSportsGames.LikeSportsGames	0.090	1	0.039	0.844	
LikeSportsGames.Residuals	107.549	47			
LikeStrategyGames.(Intercept)	665.939	1	309.640	0.000	
LikeStrategyGames.LikeStrategyGames	6.556	1	3.048	0.087	
LikeStrategyGames.Residuals	101.082	47			
LikeNovelGames.(Intercept)	688.241	1	325.585	0.000	
LikeNovelGames.LikeNovelGames	8.287	1	3.920	0.054	
LikeNovelGames.Residuals	99.352	47			

Signif. codes: 0 “***” 0.01 “**” 0.05

Table 2: Descriptive statistics and Tukey post-hoc test results for the scores of Perceived Competence

	N	mean	lsmean	SE	df	lwr.CI	upr.CI	t.ratio	p.value	p.adj	g	sig	mag
Age.adolescence	10	4.150	4.150	0.478	46	3.188	5.112						
Age.adulthood	7	4.262	4.262	0.571	46	3.112	5.412						
Age.adolescence - adulthood	17	-0.112	-0.112	0.745		-1.916	1.692	-0.150	0.988	0.988	-0.058		
Age.adolescence1	10	4.150	4.150	0.478	46	3.188	5.112						
Age.emerging-adulthood	32	4.667	4.667	0.267	46	4.129	5.205						
Age.adolescence - emerging-adulthood	42	-0.517	-0.517	0.548		-1.843	0.810	-0.943	0.616	0.616	-0.355		
Age.adulthood1	7	4.262	4.262	0.571	46	3.112	5.412						
Age.emerging-adulthood1	32	4.667	4.667	0.267	46	4.129	5.205						
Age.adulthood - emerging-adulthood	39	-0.405	-0.405	0.631		-1.932	1.123	-0.642	0.798	0.798	-0.273		
Sex.female	13	4.462	4.462	0.420	47	3.617	5.306						
Sex.male	36	4.519	4.519	0.252	47	4.011	5.026						
Sex.female - male	49	-0.057	-0.057	0.490		-1.042	0.928	-0.116	0.908	0.908	-0.037		
AcademicDegree.basic-school	10	3.467	3.467	0.376	42	2.707	4.226						
AcademicDegree.postgraduate	4	3.833	3.833	0.595	42	2.632	5.034						
AcademicDegree.basic-school - postgraduate	14	-0.367	-0.367	0.704		-2.078	1.344	-0.521	0.862	0.862	-0.268		
AcademicDegree.basic-school1	10	3.467	3.467	0.376	42	2.707	4.226						
AcademicDegree.undergraduate	31	4.984	4.984	0.214	42	4.552	5.415						
AcademicDegree.basic-school - undergraduate	41	-1.517	-1.517	0.433		-2.569	-0.466	-3.505	0.003	0.003	-1.220	**	large
AcademicDegree.postgraduate1	4	3.833	3.833	0.595	42	2.632	5.034						
AcademicDegree.undergraduate1	31	4.984	4.984	0.214	42	4.552	5.415						
AcademicDegree.postgraduate - undergraduate	35	-1.151	-1.151	0.632		-2.687	0.386	-1.819	0.176	0.176	-1.005		
KnownDomainContent.no	23	4.239	4.239	0.282	44	3.671	4.807						
KnownDomainContent.yes	23	5.065	5.065	0.282	44	4.497	5.633						
KnownDomainContent.no - yes	46	-0.826	-0.826	0.399		-1.629	-0.023	-2.073	0.044	0.044	-0.601	*	medium
LikeDomainContent.no	24	4.556	4.556	0.281	45	3.990	5.121						
LikeDomainContent.yes	23	4.732	4.732	0.287	45	4.154	5.310						
LikeDomainContent.no - yes	47	-0.176	-0.176	0.401		-0.985	0.632	-0.439	0.663	0.663	-0.126		

Table 2: (continued)

	N	mean	lsmean	SE	df	lwr.CI	upr.CI	t.ratio	p.value	p.adj	g	sig	mag
LikeActionGames.no	24	4.451	4.451	0.309	47	3.830	5.072						
LikeActionGames.yes	25	4.553	4.553	0.302	47	3.945	5.162						
LikeActionGames.no - yes	49	-0.102	-0.102	0.432	47	-0.971	0.768	-0.236	0.815	0.815	-0.066		
LikeAdventureGames.no	17	3.941	3.941	0.353	47	3.232	4.651						
LikeAdventureGames.yes	32	4.802	4.802	0.257	47	4.285	5.319						
LikeAdventureGames.no - yes	49	-0.861	-0.861	0.436	47	-1.739	0.017	-1.972	0.054	0.054	-0.582		
LikeFightingGames.no	33	4.394	4.394	0.262	47	3.867	4.921						
LikeFightingGames.yes	16	4.729	4.729	0.376	47	3.972	5.486						
LikeFightingGames.no - yes	49	-0.335	-0.335	0.458	47	-1.257	0.587	-0.731	0.468	0.468	-0.219		
LikeFictionGames.no	30	4.400	4.400	0.275	47	3.846	4.954						
LikeFictionGames.yes	19	4.667	4.667	0.346	47	3.971	5.362						
LikeFictionGames.no - yes	49	-0.267	-0.267	0.442	47	-1.156	0.623	-0.603	0.549	0.549	-0.174		
LikePlatformerGames.no	23	4.145	4.145	0.264	44	3.612	4.678						

Table 2: (continued)

	N	mean	lsmean	SE	df	lwr.CI	upr.CI	t.ratio	p.value	p.adj	g	sig	mag
LikePlatformerGames.yes	23	5.036	5.036	0.264	44	4.503	5.569						
LikePlatformerGames.no - yes	46	-0.891	-0.891	0.374	44	-1.645	-0.138	-2.384	0.022	0.022	-0.691	*	medium
LikePuzzleGames.no	22	4.447	4.447	0.322	47	3.798	5.096						
LikePuzzleGames.yes	27	4.549	4.549	0.291	47	3.964	5.135						
LikePuzzleGames.no - yes	49	-0.102	-0.102	0.434	47	-0.976	0.771	-0.236	0.815	0.815	-0.067		
LikeRacingGames.no	34	4.446	4.446	0.259	47	3.925	4.967						
LikeRacingGames.yes	15	4.633	4.633	0.390	47	3.849	5.418						
LikeRacingGames.no - yes	49	-0.187	-0.187	0.468	47	-1.129	0.755	-0.400	0.691	0.691	-0.122		
LikeMusicalGames.no	35	4.510	4.510	0.256	47	3.995	5.024						
LikeMusicalGames.yes	14	4.488	4.488	0.404	47	3.674	5.302						
LikeMusicalGames.no - yes	49	0.021	0.021	0.479	47	-0.941	0.984	0.045	0.964	0.964	0.014		
LikeMMORPGGames.no	23	4.159	4.159	0.308	47	3.540	4.779						
LikeMMORPGGames.yes	26	4.808	4.808	0.290	47	4.225	5.390						
LikeMMORPGGames.no - yes	49	-0.648	-0.648	0.423	47	-1.499	0.202	-1.533	0.132	0.132	-0.432		
LikeShooterGames.no	26	4.673	4.673	0.295	47	4.080	5.266						
LikeShooterGames.yes	23	4.312	4.312	0.313	47	3.682	4.942						
LikeShooterGames.no - yes	49	0.361	0.361	0.430	47	-0.504	1.226	0.841	0.405	0.405	0.237		
LikeSimulationGames.no	33	4.475	4.475	0.263	47	3.945	5.005						
LikeSimulationGames.yes	16	4.562	4.563	0.378	47	3.802	5.323						
LikeSimulationGames.no - yes	49	-0.088	-0.088	0.461	47	-1.015	0.839	-0.190	0.850	0.850	-0.057		
LikeSportsGames.no	43	4.519	4.519	0.231	47	4.055	4.983						
LikeSportsGames.yes	6	4.389	4.389	0.618	47	3.147	5.631						
LikeSportsGames.no - yes	49	0.130	0.130	0.659	47	-1.196	1.457	0.198	0.844	0.844	0.085		
LikeStrategyGames.no	12	3.861	3.861	0.423	47	3.009	4.713						
LikeStrategyGames.yes	37	4.712	4.712	0.241	47	4.227	5.197						
LikeStrategyGames.no - yes	49	-0.851	-0.851	0.487	47	-1.831	0.129	-1.746	0.087	0.087	-0.571		
LikeNovelGames.no	40	4.308	4.308	0.230	47	3.846	4.771						
LikeNovelGames.yes	9	5.370	5.370	0.485	47	4.395	6.345						

Table 2: (*continued*)

	N	mean	lsmean	SE	df	lwr.CI	upr.CI	t.ratio	p.value	p.adj	g	sig	mag
LikeNovelGames.no - yes	49	-1.062	-1.062	0.536		-2.141	0.017	-1.980	0.054	0.054	-0.719		

Signif. codes: 0 ‘***’ 0.01 ‘*’ 0.05