

1 Summaries of Parametric Statistics Analysis for the scores of Intrinsic Motivation

Table 1: Summary of one-way ANOVA results for the scores of Intrinsic Motivation

	Sum Sq	Df	F value	Pr(>F)	Sig
Age.(Intercept)	638.881	1	716.288	0.000	
Age.Age	1.060	2	0.594	0.557	
Age.Residuals	36.569	41			
Sex.(Intercept)	737.171	1	1083.778	0.000	
Sex.Sex	1.872	1	2.753	0.106	
Sex.Residuals	25.167	37			
AcademicDegree.(Intercept)	611.325	1	571.586	0.000	
AcademicDegree.AcademicDegree	4.793	2	2.241	0.118	
AcademicDegree.Residuals	49.198	46			
KnownDomainContent.(Intercept)	1192.534	1	1104.899	0.000	
KnownDomainContent.KnownDomainContent	3.264	1	3.024	0.089	
KnownDomainContent.Residuals	50.728	47			
LikeDomainContent.(Intercept)	1195.137	1	1138.515	0.000	
LikeDomainContent.LikeDomainContent	4.654	1	4.434	0.041	*
LikeDomainContent.Residuals	49.337	47			
LikeActionGames.(Intercept)	1190.482	1	1038.687	0.000	
LikeActionGames.LikeActionGames	0.123	1	0.107	0.745	
LikeActionGames.Residuals	53.869	47			
LikeAdventureGames.(Intercept)	913.464	1	1261.956	0.000	
LikeAdventureGames.LikeAdventureGames	0.113	1	0.156	0.695	
LikeAdventureGames.Residuals	26.059	36			
LikeFightingGames.(Intercept)	1065.457	1	938.898	0.000	
LikeFightingGames.LikeFightingGames	0.656	1	0.578	0.451	
LikeFightingGames.Residuals	53.335	47			
LikeFictionGames.(Intercept)	1150.241	1	1033.788	0.000	
LikeFictionGames.LikeFictionGames	1.697	1	1.525	0.223	
LikeFictionGames.Residuals	52.294	47			
LikePlatformerGames.(Intercept)	1194.560	1	1124.979	0.000	
LikePlatformerGames.LikePlatformerGames	4.084	1	3.847	0.056	
LikePlatformerGames.Residuals	49.907	47			
LikePuzzleGames.(Intercept)	1174.239	1	1027.946	0.000	
LikePuzzleGames.LikePuzzleGames	0.303	1	0.265	0.609	
LikePuzzleGames.Residuals	53.689	47			
LikeRacingGames.(Intercept)	962.559	1	930.604	0.000	
LikeRacingGames.LikeRacingGames	0.789	1	0.763	0.387	
LikeRacingGames.Residuals	46.545	45			
LikeMusicalGames.(Intercept)	965.741	1	841.495	0.000	
LikeMusicalGames.LikeMusicalGames	0.052	1	0.045	0.832	
LikeMusicalGames.Residuals	53.939	47			
LikeMMORPGGames.(Intercept)	1178.691	1	1087.100	0.000	

Table 1: *(continued)*

	Sum Sq	Df	F value	Pr(>F)	Sig
LikeMMORPGGames.LikeMMORPGGames	3.032	1	2.796	0.101	
LikeMMORPGGames.Residuals	50.960	47			
LikeShooterGames.(Intercept)	1178.118	1	1097.192	0.000	
LikeShooterGames.LikeShooterGames	3.525	1	3.283	0.076	
LikeShooterGames.Residuals	50.467	47			
LikeSimulationGames.(Intercept)	750.255	1	1427.783	0.000	
LikeSimulationGames.LikeSimulationGames	2.305	1	4.386	0.045	*
LikeSimulationGames.Residuals	16.290	31			
LikeSportsGames.(Intercept)	510.943	1	444.784	0.000	
LikeSportsGames.LikeSportsGames	0.000	1	0.000	0.984	
LikeSportsGames.Residuals	53.991	47			
LikeStrategyGames.(Intercept)	639.487	1	3079.334	0.000	
LikeStrategyGames.LikeStrategyGames	7.175	1	34.552	0.000	**
LikeStrategyGames.Residuals	4.984	24			
LikeNovelGames.(Intercept)	751.544	1	669.122	0.000	
LikeNovelGames.LikeNovelGames	1.202	1	1.070	0.306	
LikeNovelGames.Residuals	52.789	47			

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

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

	N	mean	lsmean	SE	df	lwr.CI	upr.CI	t.ratio	p.value	p.adj	g	sig	mag
Age.adolescence	9	4.677	4.677	0.315	41	4.041	5.313						
Age.adulthood	5	5.105	5.105	0.422	41	4.252	5.958						
Age.adolescence - adulthood	14	-0.428	-0.428	0.527		-1.708	0.853	-0.812	0.698	0.698	-0.335		
Age.adolescence1	9	4.677	4.677	0.315	41	4.041	5.313						
Age.emerging-adulthood	30	5.052	5.052	0.172	41	4.704	5.401						
Age.adolescence - emerging-adulthood	39	-0.375	-0.375	0.359		-1.248	0.498	-1.045	0.553	0.553	-0.411		
Age.adulthood1	5	5.105	5.105	0.422	41	4.252	5.958						
Age.emerging-adulthood1	30	5.052	5.052	0.172	41	4.704	5.401						
Age.adulthood - emerging-adulthood	35	0.052	0.052	0.456		-1.057	1.162	0.115	0.993	0.993	0.057		
Sex.female	8	5.655	5.655	0.292	37	5.064	6.246						
Sex.male	31	5.112	5.112	0.148	37	4.812	5.412						
Sex.female - male	39	0.543	0.543	0.327		-0.120	1.205	1.659	0.106	0.106	0.645		
AcademicDegree.basic-school	10	4.367	4.367	0.327	46	3.708	5.025						
AcademicDegree.postgraduate	5	4.695	4.695	0.462	46	3.764	5.626						
AcademicDegree.basic-school - postgraduate	15	-0.329	-0.329	0.566		-1.700	1.043	-0.580	0.831	0.831	-0.274		
AcademicDegree.basic-school1	10	4.367	4.367	0.327	46	3.708	5.025						
AcademicDegree.undergraduate	34	5.129	5.129	0.177	46	4.772	5.486						
AcademicDegree.basic-school - undergraduate	44	-0.762	-0.762	0.372		-1.663	0.139	-2.049	0.112	0.112	-0.750		
AcademicDegree.postgraduate1	5	4.695	4.695	0.462	46	3.764	5.626						
AcademicDegree.undergraduate1	34	5.129	5.129	0.177	46	4.772	5.486						
AcademicDegree.postgraduate - undergraduate	39	-0.434	-0.434	0.495		-1.633	0.766	-0.875	0.658	0.658	-0.409		
KnownDomainContent.no	25	4.676	4.676	0.208	47	4.258	5.094						
KnownDomainContent.yes	24	5.192	5.192	0.212	47	4.766	5.619						
KnownDomainContent.no - yes	49	-0.516	-0.516	0.297		-1.114	0.081	-1.739	0.089	0.089	-0.489		
LikeDomainContent.no	26	4.639	4.639	0.201	47	4.235	5.043						
LikeDomainContent.yes	23	5.257	5.257	0.214	47	4.827	5.687						
LikeDomainContent.no - yes	49	-0.618	-0.618	0.293		-1.208	-0.028	-2.106	0.041	0.041	-0.593	*	medium

Table 2: *(continued)*

	N	mean	lsmean	SE	df	lwr.CI	upr.CI	t.ratio	p.value	p.adj	g	sig	mag
LikeActionGames.no	24	4.980	4.980	0.219	47	4.541	5.420						
LikeActionGames.yes	25	4.880	4.880	0.214	47	4.449	5.311						
LikeActionGames.no - yes	49	0.100	0.100	0.306		-0.515	0.716	0.327	0.745	0.745	0.092		
LikeAdventureGames.no	13	5.110	5.110	0.236	36	4.631	5.588						
LikeAdventureGames.yes	25	5.225	5.225	0.170	36	4.880	5.570						
LikeAdventureGames.no - yes	38	-0.115	-0.115	0.291		-0.705	0.475	-0.395	0.695	0.695	-0.132		
LikeFightingGames.no	33	4.848	4.848	0.185	47	4.475	5.222						
LikeFightingGames.yes	16	5.095	5.095	0.266	47	4.559	5.631						
LikeFightingGames.no - yes	49	-0.247	-0.247	0.325		-0.900	0.406	-0.760	0.451	0.451	-0.228		
LikeFictionGames.no	30	4.781	4.781	0.193	47	4.394	5.168						
LikeFictionGames.yes	19	5.163	5.163	0.242	47	4.676	5.650						
LikeFictionGames.no - yes	49	-0.382	-0.382	0.309		-1.004	0.240	-1.235	0.223	0.223	-0.356		
LikePlatformerGames.no	26	4.658	4.658	0.202	47	4.251	5.064						

Table 2: (continued)

	N	mean	lsmean	SE	df	lwr.CI	upr.CI	t.ratio	p.value	p.adj	g	sig	mag
LikePlatformerGames.yes	23	5.236	5.236	0.215	47	4.804	5.668						
LikePlatformerGames.no - yes	49	-0.579	-0.579	0.295	47	-1.172	0.015	-1.961	0.056	0.056	-0.552		
LikePuzzleGames.no	22	4.842	4.842	0.228	47	4.384	5.300						
LikePuzzleGames.yes	27	5.000	5.000	0.206	47	4.586	5.414						
LikePuzzleGames.no - yes	49	-0.158	-0.158	0.307	47	-0.776	0.460	-0.515	0.609	0.609	-0.145		
LikeRacingGames.no	33	5.089	5.089	0.177	45	4.733	5.446						
LikeRacingGames.yes	14	4.806	4.806	0.272	45	4.259	5.354						
LikeRacingGames.no - yes	47	0.283	0.283	0.324	45	-0.370	0.937	0.873	0.387	0.387	0.274		
LikeMusicalGames.no	35	4.950	4.950	0.181	47	4.585	5.314						
LikeMusicalGames.yes	14	4.878	4.878	0.286	47	4.302	5.454						
LikeMusicalGames.no - yes	49	0.072	0.072	0.339	47	-0.609	0.754	0.213	0.832	0.832	0.066		
LikeMMORPGGames.no	23	4.665	4.665	0.217	47	4.228	5.101						
LikeMMORPGGames.yes	26	5.163	5.163	0.204	47	4.752	5.574						
LikeMMORPGGames.no - yes	49	-0.498	-0.498	0.298	47	-1.098	0.101	-1.672	0.101	0.101	-0.471		
LikeShooterGames.no	26	5.181	5.181	0.203	47	4.772	5.590						
LikeShooterGames.yes	23	4.644	4.644	0.216	47	4.209	5.079						
LikeShooterGames.no - yes	49	0.537	0.537	0.297	47	-0.059	1.134	1.812	0.076	0.076	0.510		
LikeSimulationGames.no	22	4.777	4.777	0.155	31	4.462	5.092						
LikeSimulationGames.yes	11	5.338	5.338	0.219	31	4.892	5.783						
LikeSimulationGames.no - yes	33	-0.561	-0.561	0.268	47	-1.107	-0.015	-2.094	0.045	0.045	-0.755	*	medium
LikeSportsGames.no	43	4.930	4.930	0.163	47	4.601	5.259						
LikeSportsGames.yes	6	4.921	4.921	0.438	47	4.040	5.801						
LikeSportsGames.no - yes	49	0.010	0.010	0.467	47	-0.930	0.949	0.021	0.984	0.984	0.009		
LikeStrategyGames.no	8	4.804	4.804	0.161	24	4.471	5.136						
LikeStrategyGames.yes	18	5.942	5.942	0.107	24	5.720	6.163						
LikeStrategyGames.no - yes	26	-1.138	-1.138	0.194	47	-1.538	-0.739	-5.878	0.000	0.000	-2.419	**	large
LikeNovelGames.no	40	4.855	4.855	0.168	47	4.518	5.192						
LikeNovelGames.yes	9	5.259	5.259	0.353	47	4.549	5.970						

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	-0.404	-0.404	0.391		-1.191	0.382	-1.035	0.306	0.306	-0.376		

Signif. codes: 0 ‘***’ 0.01 ‘**’ 0.05