

Summary of nonparametric statistics analysis for Interest/Enjoyment score in the pilot study for signed up students

Table 1: Summary of Scheirer-Ray-Hare results for Interest/Enjoyment score in the pilot study for signed up students

	Df	Sum Sq	H	p.value	Sig
Type					
Type:Type	1	277.266	3.590	0.058	
Type:CLRole	1	42.321	0.548	0.459	
Type:Type:CLRole	1	29.121	0.377	0.539	
Type:Residuals	26	1890.792			

Signif. codes: 0 ‘***’ 0.01 ‘**’ 0.05

Table 2: Descriptive statistic of the pair wilcoxon analysis for Interest/Enjoyment score in the pilot study for signed up students

	Group	N	Median	Mean.Ranks	Sum.Ranks	U	Z	p.value	r	magnitude
Type.less.1	non-gamified	14	2.75	12.25	171.5	66.5	-1.89	0.029	0.346	medium
Type.less.2	ont-gamified	16	4.58	18.34	293.5	66.5	-1.89	0.029	0.346	medium

Table 3: Full descriptive statistic of the pair wilcoxon analysis for Interest/Enjoyment score in the pilot study for signed up students

	Group	N	Median	Mean.Ranks	Sum.Ranks	U	Z	p.value	r	magnitude
Type.less.1	non-gamified	14	2.75	12.25	171.5	66.5	-1.89	0.029	0.346	medium
Type.less.2	ont-gamified	16	4.58	18.34	293.5	66.5	-1.89	0.029	0.346	medium
Type.greater.1	non-gamified	14	2.75	12.25	171.5	66.5	-1.89	0.972	0.346	medium
Type.greater.2	ont-gamified	16	4.58	18.34	293.5	66.5	-1.89	0.972	0.346	medium
Type.two.sided.1	non-gamified	14	2.75	12.25	171.5	66.5	-1.89	0.059	0.346	medium
Type.two.sided.2	ont-gamified	16	4.58	18.34	293.5	66.5	-1.89	0.059	0.346	medium
Type:CLRole.less.1	non-gamified.Apprentice	12	2.42	7.33	88.0	10.0	-0.37	0.385	0.098	none
Type:CLRole.less.2	non-gamified.Master	2	3.42	8.50	17.0	10.0	-0.37	0.385	0.098	none
Type:CLRole.greater.1	non-gamified.Apprentice	12	2.42	7.33	88.0	10.0	-0.37	0.659	0.098	none
Type:CLRole.greater.2	non-gamified.Master	2	3.42	8.50	17.0	10.0	-0.37	0.659	0.098	none
Type:CLRole.two.sided.1	non-gamified.Apprentice	12	2.42	7.33	88.0	10.0	-0.37	0.791	0.098	none
Type:CLRole.two.sided.2	non-gamified.Master	2	3.42	8.50	17.0	10.0	-0.37	0.791	0.098	none
Type:CLRole.less.11	non-gamified.Apprentice	12	2.42	10.58	127.0	49.0	-1.33	0.096	0.272	small
Type:CLRole.less.21	ont-gamified.Apprentice	12	4.50	14.42	173.0	49.0	-1.33	0.096	0.272	small
Type:CLRole.greater.11	non-gamified.Apprentice	12	2.42	10.58	127.0	49.0	-1.33	0.909	0.272	small
Type:CLRole.greater.21	ont-gamified.Apprentice	12	4.50	14.42	173.0	49.0	-1.33	0.909	0.272	small
Type:CLRole.two.sided.11	non-gamified.Apprentice	12	2.42	10.58	127.0	49.0	-1.33	0.191	0.272	small
Type:CLRole.two.sided.21	ont-gamified.Apprentice	12	4.50	14.42	173.0	49.0	-1.33	0.191	0.272	small
Type:CLRole.less.12	non-gamified.Apprentice	12	2.42	7.38	88.5	10.5	-1.64	0.057	0.410	medium
Type:CLRole.less.22	ont-gamified.Master	4	5.17	11.88	47.5	10.5	-1.64	0.057	0.410	medium
Type:CLRole.greater.12	non-gamified.Apprentice	12	2.42	7.38	88.5	10.5	-1.64	0.952	0.410	medium
Type:CLRole.greater.22	ont-gamified.Master	4	5.17	11.88	47.5	10.5	-1.64	0.952	0.410	medium
Type:CLRole.two.sided.12	non-gamified.Apprentice	12	2.42	7.38	88.5	10.5	-1.64	0.110	0.410	medium
Type:CLRole.two.sided.22	ont-gamified.Master	4	5.17	11.88	47.5	10.5	-1.64	0.110	0.410	medium
Type:CLRole.less.13	non-gamified.Master	2	3.42	5.00	10.0	7.0	-0.91	0.209	0.244	small
Type:CLRole.less.23	ont-gamified.Apprentice	12	4.50	7.92	95.0	7.0	-0.91	0.209	0.244	small
Type:CLRole.greater.13	non-gamified.Master	2	3.42	5.00	10.0	7.0	-0.91	0.824	0.244	small
Type:CLRole.greater.23	ont-gamified.Apprentice	12	4.50	7.92	95.0	7.0	-0.91	0.824	0.244	small
Type:CLRole.two.sided.13	non-gamified.Master	2	3.42	5.00	10.0	7.0	-0.91	0.429	0.244	small
Type:CLRole.two.sided.23	ont-gamified.Apprentice	12	4.50	7.92	95.0	7.0	-0.91	0.429	0.244	small
Type:CLRole.less.14	non-gamified.Master	2	3.42	1.50	3.0	0.0	-1.85	0.067	0.756	large
Type:CLRole.less.24	ont-gamified.Master	4	5.17	4.50	18.0	0.0	-1.85	0.067	0.756	large
Type:CLRole.greater.14	non-gamified.Master	2	3.42	1.50	3.0	0.0	-1.85	1.000	0.756	large
Type:CLRole.greater.24	ont-gamified.Master	4	5.17	4.50	18.0	0.0	-1.85	1.000	0.756	large
Type:CLRole.two.sided.14	non-gamified.Master	2	3.42	1.50	3.0	0.0	-1.85	0.133	0.756	large
Type:CLRole.two.sided.24	ont-gamified.Master	4	5.17	4.50	18.0	0.0	-1.85	0.133	0.756	large
Type:CLRole.less.15	ont-gamified.Apprentice	12	4.50	7.79	93.5	15.5	-1.03	0.165	0.258	small
Type:CLRole.less.25	ont-gamified.Master	4	5.17	10.62	42.5	15.5	-1.03	0.165	0.258	small
Type:CLRole.greater.15	ont-gamified.Apprentice	12	4.50	7.79	93.5	15.5	-1.03	0.850	0.258	small
Type:CLRole.greater.25	ont-gamified.Master	4	5.17	10.62	42.5	15.5	-1.03	0.850	0.258	small

Table 3: *(continued)*

	Group	N	Median	Mean.Ranks	Sum.Ranks	U	Z	p.value	r	magnitude
Type:CLRole.two.sided.15	ont-gamified.Apprentice	12	4.50	7.79	93.5	15.5	-1.03	0.331	0.258	small
Type:CLRole.two.sided.25	ont-gamified.Master	4	5.17	10.62	42.5	15.5	-1.03	0.331	0.258	small