1 Summaries of Nonparametric Statistics Analysis

Table 1: Summary of Scheirer-Ray-Hare results

	Df	Sum Sq	Н	p.value	Sig
gain.theta					
gain.theta:Type	1	6.294	0.032	0.858	
gain.theta:CLRole	1	21.855	0.112	0.738	
gain.theta:Type:CLRole	1	55.127	0.281	0.596	
gain.theta:Residuals	44	9128.724			

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

2 Summaries of Wilcoxon Data Analysis

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

Table 3: Full descriptive statistic of the pair wilcoxon analysis

p.value	0.434	0.434	0.575	0.575	0.867	0.867	0.452	0.452	0.566	0.566	0.905	0.905	0.364	0.364	0.649	0.649	0.727	0.727	0.647	0.647	0.376	0.376	0.753	0.753	0.332	0.332	0.692	0.692	0.664	0.664	0.738	0.738	0.311	0.311	0.622	0.622	0.689	0.689	0 0 40
Z	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	-0.15	-0.15	-0.15	-0.15	-0.15	-0.15	-0.37	-0.37	-0.37	-0.37	-0.37	-0.37	0.36	0.36	0.36	0.36	0.36	0.36	-0.48	-0.48	-0.48	-0.48	-0.48	-0.48	0.59	0.59	0.59	0.59	0.59	0.59	0.46	0.46	0
D	267	267	267	267	267	267	81	81	81	81	81	81	136	136	136	136	136	136	28	28	28	28	28	28	49	49	49	49	49	49	24	24	24	24	24	24	40	40	4
Sum.Ranks	702	474	702	474	702	474	312	123	312	123	312	123	367	263	367	263	367	263	289	62	289	62	289	62	85	168	85	168	82	168	09	31	09	31	09	31	145	45	7.
Mean.Ranks	24.21	24.95	24.21	24.95	24.21	24.95	14.86	15.38	14.86	15.38	14.86	15.38	17.48	18.79	17.48	18.79	17.48	18.79	13.76	12.40	13.76	12.40	13.76	12.40	10.62	12.00	10.62	12.00	10.62	12.00	7.50	6.20	7.50	6.20	7.50	6.20	10.36	00.6	00 01
Median	0.00	0.04	00.00	0.04	00.00	0.04	00.00	0.00	00.00	00.00	00.00	00.00	00.00	0.04	00.00	0.04	00.00	0.04	00.00	-0.09	00.00	-0.09	00.00	-0.09	00.00	0.04	00.00	0.04	00.00	0.04	00.00	-0.09	0.00	-0.09	0.00	-0.09	0.04	-0.09	
z	29	19	56	19	56	19	21	œ	21	œ	21	œ	21	14	21	14	21	14	21	IJ	21	IJ	21	IJ	_∞	14	œ	14	œ	14	∞	v	∞	2	œ	IJ	14	v	17
Group	non-gamified	ont-gamified	non-gamified	ont-gamified	non-gamified	ont-gamified	non-gamified. Apprentice	non-gamified.Master	non-gamified. Apprentice	non-gamified.Master	non-gamified. Apprentice	non-gamified.Master	non-gamified. Apprentice	ont-gamified.Apprentice	non-gamified.Apprentice	ont-gamified.Apprentice	non-gamified. Apprentice	ont-gamified.Apprentice	non-gamified.Apprentice	ont-gamified.Master	non-gamified. Apprentice	ont-gamified.Master	non-gamified. Apprentice	ont-gamified.Master	non-gamified.Master	ont-gamified.Apprentice	non-gamified.Master	ont-gamified.Apprentice	non-gamified.Master	ont-gamified.Apprentice	non-gamified.Master	ont-gamified.Master	non-gamified.Master	ont-gamified.Master	non-gamified.Master	ont-gamified.Master	ont-gamified.Apprentice	ont-gamified.Master	A Promise A Language
	gain.theta.Type.non-gamified:ont-gamified.less.1	gain.theta.Type.non-gamified.less.2	gain.theta.Type.non-gamified:ont-gamified greater.1	gain.theta.Type.non-gamified.ont-gamified greater.2	gain.theta.Type.non-gamified:ont-gamified.two.sided.1	gain.theta.Type.non-gamified:ont-gamified.two.sided.2	gain.theta.Type:CLRole.non-gamified.Apprentice:non-gamified.Master.less.1	gain.theta.Type:CLRole.non-gamified.Apprentice:non-gamified.Master.less.2	gain.theta.Type:CLRole.non-gamified.Apprentice:non-gamified.Master.greater.1	gain.theta.Type:CLRole.non-gamified.Apprentice:non-gamified.Master.greater.2	gain.theta.Type:CLRole.non-gamified.Apprentice:non-gamified.Master.two.sided.1	gain.theta.Type:CLRole.non-gamified.Apprentice:non-gamified.Master.two.sided.2	gain.theta.Type:CLRole.non-gamified.Apprentice:ont-gamified.Apprentice.less.1	gain.theta.Type:CLRole.non-gamified.Apprentice:ont-gamified.Apprentice.less.2	gain.theta.Type:CLRole.non-gamified.Apprentice:ont-gamified.Apprentice.greater.1	gain.theta.Type:CLRole.non-gamified.Apprentice:ont-gamified.Apprentice.greater.2	gain.theta.Type:CLRole.non-gamified.Apprentice:ont-gamified.Apprentice.two.sided.1	gain.theta.Type:CLRole.non-gamified.Apprentice:ont-gamified.Apprentice.two.sided.2	gain.theta.Type:CLRole.non-gamified.Apprentice:ont-gamified.Master.less.1	gain.theta.Type:CLRole.non-gamified.Apprentice:ont-gamified.Master.less.2	gain.theta.Type:CLRole.non-gamified.Apprentice:ont-gamified.Master.greater.1	gain.theta.Type:CLRole.non-gamified.Apprentice:ont-gamified.Master.greater.2	gain.theta.Type:CLRole.non-gamified.Apprentice:ont-gamified.Master.two.sided.1	gain.theta.Type:CLRole.non-gamified.Apprentice:ont-gamified.Master.two.sided.2	gain.theta.Type:CLRole.non-gamified.Master:out-gamified.Apprentice.less.1	gain.theta.Type:CLRole.non-gamified.Master:ont-gamified.Apprentice.less.2	gain.theta.Type:CLRole.non-gamified.Master:ont-gamified.Apprentice.greater.1	gain.theta.Type:CLRole.non-gamified.Master:ont-gamified.Apprentice.greater.2	gain.theta.Type:CLRole.non-gamified.Master:ont-gamified.Apprentice.two.sided.1	gain.theta.Type:CLRole.non-gamified.Master:ont-gamified.Apprentice.two.sided.2	gain.theta.Type:CLRole.non-gamified.Master:ont-gamified.Master.less.1	gain.theta.Type:CLRole.non-gamified.Master:ont-gamified.Master.less.2	gain.theta.Type:CLRole.non-gamified.Master:ont-gamified.Master.greater.1	gain.theta.Type:CLRole.non-gamified.Master:ont-gamified.Master.greater.2	gain.theta.Type:CLRole.non-gamified.Master:ont-gamified.Master.two.sided.1	gain.theta.Type:CLRole.non-gamified.Master:ont-gamified.Master.two.sided.2	gain.theta.Type:CLRole.ont-gamified.Apprentice:ont-gamified.Master.less.1	gain.theta.Type:CLRole.ont-gamified.Apprentice:ont-gamified.Master.less.2	1 H B CTD -1 A

Table 3: (continued)

	Group	_	Median	Mean.Kanks	Sum. Kanks	⊃	7	p.value	
gain.theta.Type:CLRole.ont-gamified.Apprentice:ont-gamified.Master.greater.2	ont-gamified.Master	2	60.0-	00.6	45	40	0.46	0.343	0

Table 3: (continued)

	Group	z	Median	Mean.Ranks	Sum.Ranks	D	Z	p.value
gain.theta.Type:CLRole.ont-gamified.Apprentice:ont-gamified.Master.two.sided.1	ont-gamified.Apprentice	14	0.04	10.36	145	40	0.46	0.687
gain.theta.Type: CLRole. out-gamified. Apprentice: out-gamified. Master.two.sided. 2009 and	ont-gamified.Master	2	-0.09	00.6	45	40	0.46	0.687

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