

Summary of parametric statistics analysis for the differences of scores in the pilot empirical study

Table 1: Summary of two-way ANOVA results for the differences of scores in the pilot empirical study

	Sum Sq	Df	F value	Pr(>F)	Sig
Type.(Intercept)	73.103	1	5.346	0.034	
Type.Type	2.866	1	0.210	0.653	
Type.CLRole	92.564	1	6.769	0.019	*
Type.Type:CLRole	26.880	1	1.966	0.179	
Type.Residuals	232.454	17			

Signif. codes: 0 “***” 0.01 “*” 0.05

Table 2: Descriptive statistics and Tukey post-hoc test results for the differences of scores in the pilot empirical study

	N	mean	lsmean	SE	df	lwr.CI	upr.CI	t.ratio	p.value	p.adj	g	sig	mag
Type.non-gamified	8	2.629	2.372	1.350	17	-0.476	5.221						
Type.ont-gamified	13	2.380	1.588	1.054	17	-0.636	3.812						
Type.non-gamified - ont-gamified	21	0.250	0.784	1.713		-3.256	3.756	0.458	0.653	0.882	0.053		
Type.non-gamified.Apprentice	5	3.400	3.400	1.654	17	-0.089	6.889						
Type.ont-gamified.Apprentice	8	5.017	5.017	1.307	17	2.259	7.776						
Type.non-gamified.Apprentice - ont-gamified.Apprentice	13	-1.617	-1.617	2.108		-7.610	4.375	-0.767	0.453	0.868	-0.436		
Type.non-gamified.Master	3	1.345	1.345	2.135	17	-3.159	5.849						
Type.ont-gamified.Master	5	-1.841	-1.841	1.654	17	-5.330	1.648						
Type.non-gamified.Master - ont-gamified.Master	8	3.186	3.186	2.700		-4.490	10.862	1.180	0.254	0.647	0.674		