Robust Tests of Equality of Means - use case templates, GenderMag motivation facet, creation task

		Statistic[a]	df1	df2	Sig.
Precision	Welch	.707	1	71.371	.403
Recall	Welch	.029	1	72.284	.866
FMeasure	Welch	.252	1	72.106	.617
Duration	Welch	3.359	1	76.019	.071
FirstActDet	Welch	.751	1	77.199	.389
LastActDet	Welch	3.427	1	76.501	.068
ProcDur	Welch	.191	1	75.229	.664
FixRel	Welch	2.554	1	76.171	.114
FixIrrel	Welch	1.007	1	76.235	.319
AvDurRelFix	Welch	.137	1	75.413	.712
AvDurIrrelFix	Welch	.015	1	76.526	.902
TotSac	Welch	.029	1	76.690	.865
Sac2Key	Welch	.122	1	70.327	.728
AvAttention	Welch	1.483	1	75.464	.227
AvMentWL	Welch	.657	1	74.571	.420
AvFam	Welch	.316	1	77.400	.575
AvSCL	Welch	2.785	1	77.491	.099
HRVar_RMSSD	Welch	.912	1	77.960	.342
HRVar_NN50	Welch	2.063	1	77.544	.155
NASA_MD	Welch	.096	1	65.119	.758
NASA_PD	Welch	.837	1	75.602	.363
NASA_TD	Welch	.004	1	54.676	.948
NASA_Performance	Welch	3.699	1	73.947	.058
NASA_Effort	Welch	.238	1	64.397	.627
NASA_Frustration	Welch	1.436	1	69.733	.235
NASA_Score	Welch	.554	1	64.827	.459

a. Asymptotically F distributed.

ANOVA - use case templates, GenderMag motivation facet, creation task

		Sum of Squares	df	Mean Square	F	Sig.
Precision	Between Groups	.040	1	.040	.722	.398
	Within Groups	4.291	78	.055		
	Total	4.330	79			
Recall	Between Groups	.001	1	.001	.029	.865
	Within Groups	3.945	78	.051		
	Total	3.947	79			
FMeasure	Between Groups	.013	1	.013	.256	.614
	Within Groups	3.962	78	.051		
	Total	3.975	79			
Duration	Between Groups	72382.228	1	72382.228	3.330	.072
	Within Groups	1695276.159	78	21734.310		
	Total	1767658.388	79			
FirstActDet	Between Groups	2892.146	1	2892.146	.736	.394
	Within Groups	306627.404	78	3931.121		
	Total	309519.550	79			
LastActDet	Between Groups	76421.516	1	76421.516	3.383	.070
	Within Groups	1761942.434	78	22589.006		
	Total	1838363.950	79			
ProcDur	Between Groups	54.833	1	54.833	.190	.664
	Within Groups	22472.154	78	288.105		
	Total	22526.988	79			
FixRel	Between Groups	26.823	1	26.823	2.529	.116
	Within Groups	827.391	78	10.608		
	Total	854.214	79			
FixIrrel	Between Groups	26923.433	1	26923.433	.996	.321
	Within Groups	2108038.966	78	27026.141		
	Total	2134962.399	79			
AvDurRelFix	Between Groups	382.624	1	382.624	.137	.712
	Within Groups	218100.286	78	2796.158		
	Total	218482.911	79			
AvDurIrrelFix	Between Groups	426.852	1	426.852	.015	.902
	Within Groups	2201836.821	78	28228.677		
	Total	2202263.673	79			
TotSac	Between Groups	3.152	1	3.152	.029	.866
	Within Groups	8522.798	78	109.267		
	Total	8525.950	79			
Sac2Key	Between Groups	9.618	1	9.618	.125	.725
	Within Groups	6001.182	78	76.938		
	Total	6010.800	79			
AvAttention	Between Groups	.105	1	.105	1.477	.228
	Within Groups	5.569	78	.071		
	Total	5.675	79			
AvMentWL	Between Groups	.040	1	.040	.658	.420
	Within Groups	4.739	78	.061		
	Total	4.780	79			
AvFam	Between Groups	.021	1	.021	.309	.580
	Within Groups	5.221	78	.067		
	Total	5.242	79			
AvSCL	Between Groups	56496.138	1	56496.138	2.717	.103
	Within Groups	1621909.750	78	20793.715		

		Sum of Squares	df	Mean Square	F	Sig.
	Total	1678405.888	79			
HRVar_RMSSD	Between Groups	363.312	1	363.312	.880	.351
	Within Groups	32207.587	78	412.918		
	Total	32570.899	79			
HRVar_NN50	Between Groups	735.270	1	735.270	2.011	.160
	Within Groups	28520.661	78	365.649		
	Total	29255.931	79			
NASA_MD	Between Groups	9.549	1	9.549	.101	.752
	Within Groups	7407.639	78	94.970		
	Total	7417.188	79			
NASA_PD	Between Groups	247.475	1	247.475	.833	.364
	Within Groups	23177.525	78	297.148		
	Total	23425.000	79			
NASA_TD	Between Groups	1.528	1	1.528	.005	.945
	Within Groups	24747.222	78	317.272		
	Total	24748.750	79			
NASA_Performance	Between Groups	2280.619	1	2280.619	3.722	.057
	Within Groups	47788.131	78	612.668		
	Total	50068.750	79			
NASA_Effort	Between Groups	40.306	1	40.306	.251	.618
	Within Groups	12506.881	78	160.345		
	Total	12547.188	79			
NASA_Frustration	Between Groups	600.051	1	600.051	1.478	.228
	Within Groups	31669.949	78	406.025		
	Total	32270.000	79			
NASA_Score	Between Groups	92.078	1	92.078	.584	.447
	Within Groups	12302.638	78	157.726		
	Total	12394.716	79			

Task * Motivation - use case templates, GenderMag motivation facet, creation task

Dependent Variable	Task	Motivation	Mean	Std. Error	95% Confidence Interval Lower Bound	95% Confidence Interval Upper Bound
Precision	ARNE Create	Abby	.777[a]	.061	.655	.900
		Tim	.560[a]	.049	.461	.659
	ALCO Create	Abby	.878[a]	.063	.751	1.005
		Tim	.853[a]	.055	.743	.964
Recall	ARNE Create	Abby	.714[a]	.064	.586	.843
		Tim	.603[a]	.052	.500	.706
	ALCO Create	Abby	.799[a]	.066	.666	.932
		Tim	.882[a]	.058	.767	.998
FMeasure	ARNE Create	Abby	.740[a]	.062	.616	.864
		Tim	.574[a]	.050	.474	.674
	ALCO Create	Abby	.833[a]	.064	.705	.962
		Tim	.866[a]	.056	.754	.978
Duration	ARNE Create	Abby	811.467[a]	30.485	750.348	872.585
		Tim	894.000[a]	24.584	844.711	943.289
	ALCO Create	Abby	612.450[a]	31.555	549.186	675.714
		Tim	656.437[a]	27.460	601.383	711.490
FirstActDet	ARNE Create	Abby	155.967[a]	9.009	137.906	174.028
		Tim	136.241[a]	7.265	121.675	150.806
	ALCO Create	Abby	174.758[a]	9.325	156.063	193.453
		Tim	198.290[a]	8.115	182.021	214.558
LastActDet	ARNE Create	Abby	775.333[a]	30.579	714.027	836.640
		Tim	879.306[a]	24.660	829.865	928.746
	ALCO Create	Abby	585.442[a]	31.652	521.983	648.900
		Tim	639.909[a]	27.544	584.686	695.131
ProcDur	ARNE Create	Abby	36.133[a]	1.924	32.276	39.991
		Tim	14.694[a]	1.552	11.584	17.805
	ALCO Create	Abby	27.008[a]	1.992	23.016	31.001
		Tim	16.528[a]	1.733	13.053	20.002
FixRel	ARNE Create	Abby	10.001[a]	.209	9.583	10.420
		Tim	10.429[a]	.168	10.091	10.767
	ALCO Create	Abby	3.829[a]	.216	3.395	4.262
		Tim	4.032[a]	.188	3.655	4.409
FixIrrel	ARNE Create	Abby	301.997[a]	21.669	258.553	345.441
		Tim	254.894[a]	17.475	219.859	289.929
	ALCO Create	Abby	5.022[a]	22.430	-39.947	49.991
		Tim	3.716[a]	19.519	-35.417	42.849
AvDurRelFix	ARNE Create	Abby	105.697[a]	10.785	84.075	127.318
		Tim	91.544[a]	8.697	74.107	108.981
	ALCO Create	Abby	131.983[a]	11.163	109.603	154.364
		Tim	157.062[a]	9.714	137.586	176.537
AvDurIrrelFix	ARNE Create	Abby	253.213[a]	31.243	190.574	315.853
		Tim		25.196	155.677	256.707

			206.192[a]			
	ALCO Create	Abby	373.950[a]	32.340	309.112	438.788
		Tim	449.185[a]	28.143	392.762	505.607
TotSac	ARNE Create	Abby	84.867[a]	2.946	78.960	90.773
		Tim	89.213[a]	2.376	84.450	93.976
	ALCO Create	Abby	85.008[a]	3.049	78.895	91.122
		Tim	87.401[a]	2.654	82.081	92.721
Sac2Key	ARNE Create	Abby	11.833[a]	2.353	7.117	16.550
		Tim	15.926[a]	1.897	12.122	19.730
	ALCO Create	Abby	15.158[a]	2.435	10.276	20.041
		Tim	17.034[a]	2.119	12.785	21.282
AvAttention	ARNE Create	Abby	.743[a]	.037	.669	.818
		Tim	.682[a]	.030	.622	.742
	ALCO Create	Abby	.383[a]	.038	.306	.460
		Tim	.389[a]	.033	.322	.456
AvMentWL	ARNE Create	Abby	.753[a]	.046	.661	.846
		Tim	.770[a]	.037	.696	.845
	ALCO Create	Abby	.362[a]	.048	.267	.458
		Tim	.407[a]	.042	.324	.490
AvFam	ARNE Create	Abby	.740[a]	.043	.653	.827
		Tim	.765[a]	.035	.695	.835
	ALCO Create	Abby	.329[a]	.045	.239	.419
		Tim	.312[a]	.039	.234	.390
AvSCL	ARNE Create	Abby	477.967[a]	41.415	394.936	560.998
		Tim	523.463[a]	33.399	456.503	590.423
	ALCO Create	Abby	532.517[a]	42.868	446.571	618.462
		Tim	640.964[a]	37.305	566.173	715.755
HRVar_RMSSD	ARNE Create	Abby	19.237[a]	4.495	10.226	28.248
		Tim	46.286[a]	3.625	39.019	53.553
	ALCO Create	Abby	29.512[a]	4.652	20.184	38.839
		Tim	36.144[a]	4.049	28.027	44.260
HRVar_NN50	ARNE Create	Abby	10.114[a]	5.238	-.386	20.615
		Tim	34.061[a]	4.224	25.593	42.529
	ALCO Create	Abby	22.468[a]	5.421	11.599	33.337
		Tim	25.175[a]	4.718	15.717	34.634
NASA_MD	ARNE Create	Abby	53.000[a]	2.411	48.166	57.834
		Tim	51.389[a]	1.944	47.491	55.287
	ALCO Create	Abby	46.208[a]	2.496	41.205	51.212
		Tim	51.548[a]	2.172	47.193	55.902
NASA_PD	ARNE Create	Abby	23.667[a]	4.334	14.978	32.355
		Tim	20.185[a]	3.495	13.178	27.192
	ALCO Create	Abby	18.542[a]	4.486	9.548	27.535
		Tim	17.560[a]	3.904	9.733	25.386
NASA_TD	ARNE Create	Abby	47.500[a]	3.641	40.201	54.799
		Tim	29.722[a]	2.936	23.836	35.608
	ALCO	Abby	25.250[a]	3.768	17.695	32.805

			Mean	Std. Error	Lower Bound	Upper Bound
	Create	Tim	21.677[a]	3.279	15.102	28.251
NASA_Performance	ARNE Create	Abby	61.500[a]	7.476	46.511	76.489
		Tim	36.111[a]	6.029	24.023	48.199
	ALCO Create	Abby	65.625[a]	7.739	50.110	81.140
		Tim	47.798[a]	6.734	34.296	61.299
NASA_Effort	ARNE Create	Abby	49.500[a]	3.390	42.704	56.296
		Tim	47.222[a]	2.734	41.742	52.703
	ALCO Create	Abby	42.083[a]	3.509	35.049	49.118
		Tim	48.571[a]	3.053	42.450	54.693
NASA_Frustration	ARNE Create	Abby	38.833[a]	5.899	27.008	50.659
		Tim	17.361[a]	4.757	7.824	26.898
	ALCO Create	Abby	35.083[a]	6.106	22.842	47.324
		Tim	30.893[a]	5.313	20.241	41.545
NASA_Score	ARNE Create	Abby	45.667[a]	3.678	38.292	53.042
		Tim	33.665[a]	2.967	27.718	39.613
	ALCO Create	Abby	42.408[a]	3.808	34.774	50.042
		Tim	38.763[a]	3.313	32.120	45.406

a. Based on modified population marginal mean.

Robust Tests of Equality of Means - use case templates, GenderMag information processing facet, creation task

		Statistic[a]	df1	df2	Sig.
Precision	Welch	1.330	1	56.261	.254
Recall	Welch	.338	1	48.852	.564
FMeasure	Welch	.828	1	52.816	.367
Duration	Welch	2.060	1	58.441	.157
FirstActDet	Welch	3.835	1	61.902	.055
LastActDet	Welch	1.231	1	57.854	.272
ProcDur	Welch	6.373	1	50.164	.015
FixRel	Welch	2.016	1	50.625	.162
FixIrrel	Welch	.201	1	57.291	.656
AvDurRelFix	Welch	11.016	1	41.070	.002
AvDurIrrelFix	Welch	10.223	1	44.076	.003
TotSac	Welch	1.086	1	48.009	.303
Sac2Key	Welch	5.069	1	61.371	.028
AvAttention	Welch	41.415	1	67.219	.000
AvMentWL	Welch	7.429	1	59.209	.008
AvFam	Welch	5.319	1	50.219	.025
AvSCL	Welch	2.601	1	59.357	.112
HRVar_RMSSD	Welch	10.550	1	41.997	.002
HRVar_NN50	Welch	3.747	1	50.260	.059
NASA_MD	Welch	5.771	1	36.521	.021
NASA_PD	Welch	23.509	1	77.996	.000
NASA_TD	Welch	1.187	1	33.586	.284
NASA_Performance	Welch	.814	1	59.604	.371
NASA_Effort	Welch	2.788	1	39.797	.103
NASA_Frustration	Welch	.399	1	48.785	.530
NASA_Score	Welch	.665	1	49.288	.419

a. Asymptotically F distributed.

ANOVA - use case templates, GenderMag information processing facet, creation task

		Sum of Squares	df	Mean Square	F	Sig.
Precision	Between Groups	.066	1	.066	1.205	.276
	Within Groups	4.264	78	.055		
	Total	4.330	79			
Recall	Between Groups	.017	1	.017	.341	.561
	Within Groups	3.929	78	.050		
	Total	3.947	79			
FMeasure	Between Groups	.040	1	.040	.787	.378
	Within Groups	3.935	78	.050		
	Total	3.975	79			
Duration	Between Groups	40135.756	1	40135.756	1.812	.182
	Within Groups	1727522.631	78	22147.726		
	Total	1767658.388	79			
FirstActDet	Between Groups	12296.678	1	12296.678	3.227	.076
	Within Groups	297222.872	78	3810.550		
	Total	309519.550	79			
LastActDet	Between Groups	25376.412	1	25376.412	1.092	.299
	Within Groups	1812987.538	78	23243.430		
	Total	1838363.950	79			
ProcDur	Between Groups	1684.228	1	1684.228	6.303	.014
	Within Groups	20842.759	78	267.215		
	Total	22526.988	79			
FixRel	Between Groups	21.144	1	21.144	1.980	.163
	Within Groups	833.070	78	10.680		
	Total	854.214	79			
FixIrrel	Between Groups	4906.250	1	4906.250	.180	.673
	Within Groups	2130056.149	78	27308.412		
	Total	2134962.399	79			
AvDurRelFix	Between Groups	30888.100	1	30888.100	12.843	.001
	Within Groups	187594.811	78	2405.062		
	Total	218482.911	79			
AvDurIrrelFix	Between Groups	276925.522	1	276925.522	11.219	.001
	Within Groups	1925338.151	78	24683.822		
	Total	2202263.673	79			
TotSac	Between Groups	119.785	1	119.785	1.111	.295
	Within Groups	8406.165	78	107.771		
	Total	8525.950	79			
Sac2Key	Between Groups	313.712	1	313.712	4.295	.042
	Within Groups	5697.088	78	73.040		
	Total	6010.800	79			
AvAttention	Between Groups	1.672	1	1.672	32.590	.000
	Within Groups	4.003	78	.051		
	Total	5.675	79			
AvMentWL	Between Groups	.366	1	.366	6.472	.013
	Within Groups	4.413	78	.057		
	Total	4.780	79			
AvFam	Between Groups	.331	1	.331	5.256	.025
	Within Groups	4.911	78	.063		
	Total	5.242	79			
AvSCL	Between Groups	47286.350	1	47286.350	2.261	.137
	Within Groups	1631119.537	78	20911.789		

		Sum of Squares	df	Mean Square	F	Sig.
	Total	1678405.888	79			
HRVar_RMSSD	Between Groups	4362.321	1	4362.321	12.062	.001
	Within Groups	28208.578	78	361.648		
	Total	32570.899	79			
HRVar_NN50	Between Groups	1325.177	1	1325.177	3.701	.058
	Within Groups	27930.754	78	358.087		
	Total	29255.931	79			
NASA_MD	Between Groups	650.841	1	650.841	7.503	.008
	Within Groups	6766.346	78	86.748		
	Total	7417.187	79			
NASA_PD	Between Groups	3778.134	1	3778.134	15.000	.000
	Within Groups	19646.866	78	251.883		
	Total	23425.000	79			
NASA_TD	Between Groups	522.397	1	522.397	1.682	.198
	Within Groups	24226.353	78	310.594		
	Total	24748.750	79			
NASA_Performance	Between Groups	448.807	1	448.807	.706	.404
	Within Groups	49619.943	78	636.153		
	Total	50068.750	79			
NASA_Effort	Between Groups	515.599	1	515.599	3.343	.071
	Within Groups	12031.588	78	154.251		
	Total	12547.188	79			
NASA_Frustration	Between Groups	166.154	1	166.154	.404	.527
	Within Groups	32103.846	78	411.588		
	Total	32270.000	79			
NASA_Score	Between Groups	105.115	1	105.115	.667	.417
	Within Groups	12289.600	78	157.559		
	Total	12394.716	79			

Task * InformationProcessing - use case templates, GenderMag information processing facet, creation task

Dependent Variable	Task	InformationProcessing	Mean	Std. Error	95% Confidence Interval Lower Bound	Upper Bound
Precision	ARNE Create	Abby	.652[a]	.061	.530	.774
		Tim	.627[a]	.050	.527	.726
	ALCO Create	Abby	.967[a]	.069	.829	1.105
		Tim	.765[a]	.048	.668	.861
Recall	ARNE Create	Abby	.610[a]	.064	.482	.738
		Tim	.667[a]	.052	.564	.771
	ALCO Create	Abby	.950[a]	.072	.806	1.094
		Tim	.731[a]	.050	.631	.832
FMeasure	ARNE Create	Abby	.628[a]	.062	.504	.751
		Tim	.638[a]	.050	.537	.738
	ALCO Create	Abby	.954[a]	.070	.814	1.094
		Tim	.745[a]	.049	.647	.843
Duration	ARNE Create	Abby	790.194[a]	30.364	729.319	851.070
		Tim	920.271[a]	24.685	870.780	969.761
	ALCO Create	Abby	600.667[a]	34.285	531.928	669.405
		Tim	668.220[a]	23.963	620.176	716.264
FirstActDet	ARNE Create	Abby	146.653[a]	8.973	128.664	164.642
		Tim	140.760[a]	7.295	126.136	155.385
	ALCO Create	Abby	148.375[a]	10.132	128.062	168.688
		Tim	224.673[a]	7.081	210.476	238.870
LastActDet	ARNE Create	Abby	771.389[a]	30.457	710.326	832.452
		Tim	895.260[a]	24.761	845.617	944.903
	ALCO Create	Abby	582.875[a]	34.391	513.925	651.825
		Tim	642.475[a]	24.037	594.284	690.667
ProcDur	ARNE Create	Abby	18.806[a]	1.916	14.963	22.648
		Tim	25.010[a]	1.558	21.887	28.134
	ALCO Create	Abby	17.792[a]	2.164	13.453	22.130
		Tim	25.744[a]	1.512	22.712	28.777
FixRel	ARNE Create	Abby	10.379[a]	.208	9.962	10.796
		Tim	10.199[a]	.169	9.860	10.538
	ALCO Create	Abby	4.223[a]	.235	3.752	4.694
		Tim	3.637[a]	.164	3.308	3.966
FixIrrel	ARNE Create	Abby	242.748[a]	21.583	199.477	286.019
		Tim	293.442[a]	17.547	258.264	328.621
	ALCO Create	Abby	6.904[a]	24.371	-41.956	55.764
		Tim	1.834[a]	17.034	-32.316	35.984
AvDurRelFix	ARNE Create	Abby	85.662[a]	10.742	64.126	107.198
		Tim	104.801[a]	8.733	87.293	122.309
	ALCO Create	Abby	122.479[a]	12.129	98.162	146.796
		Tim	166.566[a]	8.477	149.569	183.562
AvDurIrrelFix	ARNE	Abby	194.443[a]	31.119	132.053	256.833

			Mean	Std. Error	Lower Bound	Upper Bound
	Create	Tim	244.392[a]	25.299	193.670	295.115
	ALCO Create	Abby	345.438[a]	35.139	274.989	415.886
		Tim	477.697[a]	24.560	428.458	526.936
TotSac	ARNE Create	Abby	85.292[a]	2.934	79.409	91.175
		Tim	89.438[a]	2.386	84.655	94.220
	ALCO Create	Abby	85.625[a]	3.313	78.982	92.268
		Tim	86.784[a]	2.316	82.141	91.427
Sac2Key	ARNE Create	Abby	11.500[a]	2.343	6.802	16.198
		Tim	16.688[a]	1.905	12.868	20.507
	ALCO Create	Abby	13.875[a]	2.646	8.570	19.180
		Tim	18.317[a]	1.849	14.609	22.025
AvAttention	ARNE Create	Abby	.835[a]	.037	.761	.909
		Tim	.606[a]	.030	.546	.666
	ALCO Create	Abby	.554[a]	.042	.471	.638
		Tim	.218[a]	.029	.160	.277
AvMentWL	ARNE Create	Abby	.822[a]	.046	.730	.914
		Tim	.721[a]	.037	.646	.796
	ALCO Create	Abby	.479[a]	.052	.375	.583
		Tim	.290[a]	.036	.218	.363
AvFam	ARNE Create	Abby	.822[a]	.043	.736	.909
		Tim	.706[a]	.035	.636	.776
	ALCO Create	Abby	.379[a]	.049	.282	.477
		Tim	.262[a]	.034	.194	.330
AvSCL	ARNE Create	Abby	552.500[a]	41.250	469.799	635.201
		Tim	473.250[a]	33.535	406.016	540.484
	ALCO Create	Abby	587.000[a]	46.578	493.617	680.383
		Tim	586.481[a]	32.555	521.212	651.750
HRVar_RMSSD	ARNE Create	Abby	41.785[a]	4.477	32.809	50.760
		Tim	32.756[a]	3.639	25.459	40.053
	ALCO Create	Abby	40.552[a]	5.055	30.418	50.687
		Tim	25.103[a]	3.533	18.020	32.186
HRVar_NN50	ARNE Create	Abby	27.280[a]	5.217	16.821	37.739
		Tim	24.180[a]	4.241	15.677	32.682
	ALCO Create	Abby	27.300[a]	5.890	15.490	39.110
		Tim	20.343[a]	4.117	12.089	28.598
NASA_MD	ARNE Create	Abby	57.361[a]	2.402	52.546	62.176
		Tim	47.917[a]	1.952	44.002	51.831
	ALCO Create	Abby	51.875[a]	2.712	46.438	57.312
		Tim	45.881[a]	1.895	42.081	49.681
NASA_PD	ARNE Create	Abby	12.708[a]	4.316	4.054	21.362
		Tim	27.969[a]	3.509	20.933	35.004
	ALCO Create	Abby	6.042[a]	4.874	-3.730	15.813
		Tim	30.060[a]	3.407	23.230	36.889
NASA_TD	ARNE Create	Abby	40.833[a]	3.626	33.563	48.103
		Tim	32.500[a]	2.948	26.590	38.410
	ALCO	Abby	24.375[a]	4.094	16.166	32.584

			Mean	Std. Error	Lower Bound	Upper Bound
	Create	Tim	22.552[a]	2.862	16.814	28.289
NASA_Performance	ARNE Create	Abby	46.528[a]	7.447	31.598	61.457
		Tim	44.167[a]	6.054	32.029	56.304
	ALCO Create	Abby	51.875[a]	8.408	35.017	68.733
		Tim	61.548[a]	5.877	49.765	73.330
NASA_Effort	ARNE Create	Abby	52.917[a]	3.376	46.148	59.686
		Tim	44.375[a]	2.745	38.872	49.878
	ALCO Create	Abby	47.708[a]	3.812	40.065	55.352
		Tim	42.946[a]	2.665	37.604	48.289
NASA_Frustration	ARNE Create	Abby	31.181[a]	5.875	19.402	42.959
		Tim	20.417[a]	4.776	10.841	29.993
	ALCO Create	Abby	33.333[a]	6.634	20.033	46.633
		Tim	32.643[a]	4.637	23.347	41.939
NASA_Score	ARNE Create	Abby	40.255[a]	3.664	32.909	47.600
		Tim	36.224[a]	2.979	30.252	42.196
	ALCO Create	Abby	41.224[a]	4.137	32.929	49.518
		Tim	39.948[a]	2.892	34.150	45.745

a. Based on modified population marginal mean.

Robust Tests of Equality of Means - use case templates, GenderMag self-efficacy facet, creation task

		Statistic[a]	df1	df2	Sig.
Precision	Welch	.099	1	61.258	.754
Recall	Welch	.051	1	64.135	.823
FMeasure	Welch	.076	1	61.669	.784
Duration	Welch	3.437	1	65.723	.068
FirstActDet	Welch	3.812	1	63.218	.055
LastActDet	Welch	3.874	1	65.027	.053
ProcDur	Welch	1.836	1	66.895	.180
FixRel	Welch	.074	1	66.452	.787
FixIrrel	Welch	.242	1	64.072	.625
AvDurRelFix	Welch	1.697	1	65.594	.197
AvDurIrrelFix	Welch	1.721	1	67.617	.194
TotSac	Welch	.015	1	56.410	.904
Sac2Key	Welch	.187	1	53.411	.667
AvAttention	Welch	2.031	1	67.003	.159
AvMentWL	Welch	2.198	1	61.540	.143
AvFam	Welch	1.108	1	60.179	.297
AvSCL	Welch	.405	1	61.828	.527
HRVar_RMSSD	Welch	.113	1	62.128	.738
HRVar_NN50	Welch	1.302	1	65.413	.258
NASA_MD	Welch	.354	1	69.786	.554
NASA_PD	Welch	.982	1	65.889	.325
NASA_TD	Welch	2.002	1	66.679	.162
NASA_Performance	Welch	.074	1	68.569	.786
NASA_Effort	Welch	.278	1	68.563	.600
NASA_Frustration	Welch	.177	1	62.997	.676
NASA_Score	Welch	3.160	1	68.887	.080

a. Asymptotically F distributed.

ANOVA - use case templates, GenderMag self-efficacy facet, creation task

		Sum of Squares	df	Mean Square	F	Sig.
Precision	Between Groups	.006	1	.006	.104	.748
	Within Groups	4.324	78	.055		
	Total	4.330	79			
Recall	Between Groups	.003	1	.003	.052	.821
	Within Groups	3.944	78	.051		
	Total	3.947	79			
FMeasure	Between Groups	.004	1	.004	.079	.779
	Within Groups	3.971	78	.051		
	Total	3.975	79			
Duration	Between Groups	75150.075	1	75150.075	3.463	.067
	Within Groups	1692508.313	78	21698.825		
	Total	1767658.388	79			
FirstActDet	Between Groups	14829.633	1	14829.633	3.925	.051
	Within Groups	294689.917	78	3778.076		
	Total	309519.550	79			
LastActDet	Between Groups	88129.200	1	88129.200	3.928	.051
	Within Groups	1750234.750	78	22438.907		
	Total	1838363.950	79			
ProcDur	Between Groups	516.675	1	516.675	1.831	.180
	Within Groups	22010.313	78	282.183		
	Total	22526.988	79			
FixRel	Between Groups	.806	1	.806	.074	.787
	Within Groups	853.408	78	10.941		
	Total	854.214	79			
FixIrrel	Between Groups	6742.427	1	6742.427	.247	.621
	Within Groups	2128219.972	78	27284.871		
	Total	2134962.399	79			
AvDurRelFix	Between Groups	4691.251	1	4691.251	1.712	.195
	Within Groups	213791.660	78	2740.919		
	Total	218482.911	79			
AvDurIrrelFix	Between Groups	47128.591	1	47128.591	1.706	.195
	Within Groups	2155135.082	78	27629.937		
	Total	2202263.673	79			
TotSac	Between Groups	1.752	1	1.752	.016	.900
	Within Groups	8524.198	78	109.285		
	Total	8525.950	79			
Sac2Key	Between Groups	16.133	1	16.133	.210	.648
	Within Groups	5994.667	78	76.855		
	Total	6010.800	79			
AvAttention	Between Groups	.144	1	.144	2.024	.159
	Within Groups	5.531	78	.071		
	Total	5.675	79			
AvMentWL	Between Groups	.137	1	.137	2.296	.134
	Within Groups	4.643	78	.060		
	Total	4.780	79			
AvFam	Between Groups	.078	1	.078	1.171	.283
	Within Groups	5.164	78	.066		
	Total	5.242	79			
AvSCL	Between Groups	9022.002	1	9022.002	.422	.518
	Within Groups	1669383.885	78	21402.358		

		Sum of Squares	df	Mean Square	F	Sig.
	Total	1678405.888	79			
HRVar_RMSSD	Between Groups	48.992	1	48.992	.118	.733
	Within Groups	32521.907	78	416.948		
	Total	32570.899	79			
HRVar_NN50	Between Groups	485.274	1	485.274	1.316	.255
	Within Groups	28770.657	78	368.855		
	Total	29255.931	79			
NASA_MD	Between Groups	32.552	1	32.552	.344	.559
	Within Groups	7384.635	78	94.675		
	Total	7417.187	79			
NASA_PD	Between Groups	292.969	1	292.969	.988	.323
	Within Groups	23132.031	78	296.565		
	Total	23425.000	79			
NASA_TD	Between Groups	618.802	1	618.802	2.000	.161
	Within Groups	24129.948	78	309.358		
	Total	24748.750	79			
NASA_Performance	Between Groups	46.875	1	46.875	.073	.788
	Within Groups	50021.875	78	641.306		
	Total	50068.750	79			
NASA_Effort	Between Groups	43.802	1	43.802	.273	.603
	Within Groups	12503.385	78	160.300		
	Total	12547.188	79			
NASA_Frustration	Between Groups	75.208	1	75.208	.182	.671
	Within Groups	32194.792	78	412.754		
	Total	32270.000	79			
NASA_Score	Between Groups	473.092	1	473.092	3.095	.082
	Within Groups	11921.624	78	152.841		
	Total	12394.716	79			

Task * SelfEfficacy - use case templates, GenderMag self-efficacy facet, creation task

Dependent Variable	Task	SelfEfficacy	Mean	Std. Error	95% Confidence Interval	
					Lower Bound	Upper Bound
Precision	ARNE Create	Abby	.614[a]	.056	.502	.726
		Tim	.661[a]	.053	.555	.767
	ALCO Create	Abby	.862[a]	.061	.740	.984
		Tim	.869[a]	.058	.754	.985
Recall	ARNE Create	Abby	.625[a]	.059	.508	.743
		Tim	.660[a]	.055	.549	.771
	ALCO Create	Abby	.839[a]	.064	.711	.966
		Tim	.843[a]	.060	.722	.964
FMeasure	ARNE Create	Abby	.612[a]	.057	.498	.726
		Tim	.654[a]	.054	.547	.762
	ALCO Create	Abby	.848[a]	.062	.725	.972
		Tim	.851[a]	.059	.733	.968
Duration	ARNE Create	Abby	886.429[a]	27.910	830.473	942.384
		Tim	842.619[a]	26.349	789.792	895.446
	ALCO Create	Abby	665.556[a]	30.364	604.680	726.431
		Tim	603.331[a]	28.771	545.648	661.014
FirstActDet	ARNE Create	Abby	122.667[a]	8.248	106.131	139.202
		Tim	163.905[a]	7.786	148.294	179.516
	ALCO Create	Abby	185.569[a]	8.973	167.580	203.559
		Tim	187.479[a]	8.502	170.433	204.524
LastActDet	ARNE Create	Abby	864.036[a]	27.996	807.908	920.164
		Tim	820.310[a]	26.430	767.320	873.299
	ALCO Create	Abby	645.569[a]	30.457	584.506	706.632
		Tim	579.781[a]	28.860	521.920	637.641
ProcDur	ARNE Create	Abby	22.393[a]	1.761	18.861	25.924
		Tim	22.310[a]	1.663	18.975	25.644
	ALCO Create	Abby	19.986[a]	1.916	16.144	23.828
		Tim	23.550[a]	1.816	19.909	27.191
FixRel	ARNE Create	Abby	10.242[a]	.191	9.859	10.625
		Tim	10.310[a]	.180	9.949	10.672
	ALCO Create	Abby	3.842[a]	.208	3.425	4.259
		Tim	4.018[a]	.197	3.623	4.413
FixIrrel	ARNE Create	Abby	281.773[a]	19.839	241.999	321.547
		Tim	261.660[a]	18.730	224.109	299.210
	ALCO Create	Abby	2.707[a]	21.583	-40.564	45.979
		Tim	6.031[a]	20.451	-34.971	47.033
AvDurRelFix	ARNE Create	Abby	100.387[a]	9.874	80.592	120.182
		Tim	92.810[a]	9.322	74.121	111.498
	ALCO Create	Abby	126.639[a]	10.742	105.103	148.175
		Tim	162.406[a]	10.178	142.000	182.812
AvDurIrrelFix	ARNE Create	Abby	233.171[a]	28.604	175.823	290.519
		Tim		27.005	158.659	266.942

			Mean	Std. Error	Lower Bound	Upper Bound
			212.800[a]			
	ALCO Create	Abby	357.917[a]	31.119	295.526	420.307
		Tim	465.218[a]	29.487	406.100	524.336
TotSac	ARNE Create	Abby	88.655[a]	2.697	83.247	94.062
		Tim	86.667[a]	2.546	81.561	91.772
	ALCO Create	Abby	84.514[a]	2.934	78.631	90.397
		Tim	87.895[a]	2.780	82.321	93.470
Sac2Key	ARNE Create	Abby	15.345[a]	2.154	11.027	19.663
		Tim	13.583[a]	2.033	9.507	17.660
	ALCO Create	Abby	16.944[a]	2.343	12.247	21.642
		Tim	15.248[a]	2.220	10.796	19.699
AvAttention	ARNE Create	Abby	.700[a]	.034	.632	.768
		Tim	.708[a]	.032	.644	.773
	ALCO Create	Abby	.413[a]	.037	.339	.486
		Tim	.360[a]	.035	.290	.430
AvMentWL	ARNE Create	Abby	.799[a]	.042	.714	.883
		Tim	.730[a]	.040	.650	.810
	ALCO Create	Abby	.387[a]	.046	.295	.480
		Tim	.382[a]	.044	.295	.469
AvFam	ARNE Create	Abby	.787[a]	.040	.708	.866
		Tim	.725[a]	.037	.650	.800
	ALCO Create	Abby	.321[a]	.043	.234	.407
		Tim	.320[a]	.041	.238	.402
AvSCL	ARNE Create	Abby	513.524[a]	37.916	437.506	589.541
		Tim	500.905[a]	35.796	429.138	572.672
	ALCO Create	Abby	590.750[a]	41.250	508.049	673.451
		Tim	582.731[a]	39.086	504.367	661.095
HRVar_RMSSD	ARNE Create	Abby	37.312[a]	4.115	29.062	45.562
		Tim	35.938[a]	3.885	28.150	43.727
	ALCO Create	Abby	27.285[a]	4.477	18.310	36.260
		Tim	38.370[a]	4.242	29.866	46.875
HRVar_NN50	ARNE Create	Abby	23.118[a]	4.795	13.505	32.732
		Tim	27.899[a]	4.527	18.823	36.975
	ALCO Create	Abby	17.115[a]	5.217	6.656	27.574
		Tim	30.528[a]	4.943	20.618	40.439
NASA_MD	ARNE Create	Abby	51.012[a]	2.207	46.586	55.438
		Tim	52.917[a]	2.084	48.738	57.095
	ALCO Create	Abby	52.292[a]	2.402	47.477	57.106
		Tim	45.464[a]	2.276	40.902	50.027
NASA_PD	ARNE Create	Abby	23.929[a]	3.968	15.974	31.883
		Tim	18.929[a]	3.746	11.419	26.438
	ALCO Create	Abby	21.458[a]	4.316	12.804	30.112
		Tim	14.643[a]	4.090	6.443	22.843
NASA_TD	ARNE Create	Abby	41.131[a]	3.333	34.449	47.813
		Tim	31.012[a]	3.147	24.703	37.321
	ALCO	Abby	29.028[a]	3.626	21.758	36.298

			Mean	Std. Error	Lower Bound	Upper Bound
	Create	Tim	17.899[a]	3.436	11.010	24.787
NASA_Performance	ARNE Create	Abby	43.750[a]	6.845	30.027	57.473
		Tim	46.607[a]	6.462	33.651	59.563
	ALCO Create	Abby	68.542[a]	7.447	53.612	83.471
		Tim	44.881[a]	7.056	30.734	59.028
NASA_Effort	ARNE Create	Abby	47.440[a]	3.103	41.218	53.663
		Tim	48.631[a]	2.930	42.757	54.505
	ALCO Create	Abby	49.792[a]	3.376	43.023	56.561
		Tim	40.863[a]	3.199	34.449	47.277
NASA_Frustration	ARNE Create	Abby	24.762[a]	5.400	13.935	35.589
		Tim	25.298[a]	5.098	15.076	35.519
	ALCO Create	Abby	39.583[a]	5.875	27.805	51.362
		Tim	26.393[a]	5.567	15.232	37.554
NASA_Score	ARNE Create	Abby	38.671[a]	3.368	31.919	45.423
		Tim	37.232[a]	3.179	30.858	43.607
	ALCO Create	Abby	47.641[a]	3.664	40.296	54.987
		Tim	33.530[a]	3.472	26.570	40.490

a. Based on modified population marginal mean.

Robust Tests of Equality of Means - use case templates, GenderMag risk facet, creation task

		Statistic[a]	df1	df2	Sig.
Precision	Welch	19.798	1	62.361	.000
Recall	Welch	1.619	1	70.575	.207
FMeasure	Welch	8.331	1	64.730	.005
Duration	Welch	2.633	1	75.374	.109
FirstActDet	Welch	43.999	1	57.535	.000
LastActDet	Welch	6.993	1	75.254	.010
ProcDur	Welch	418.959	1	43.219	.000
FixRel	Welch	.108	1	68.606	.744
FixIrrel	Welch	3.157	1	55.114	.081
AvDurRelFix	Welch	19.296	1	70.472	.000
AvDurIrrelFix	Welch	17.353	1	71.549	.000
TotSac	Welch	17.726	1	73.545	.000
Sac2Key	Welch	19.438	1	62.214	.000
AvAttention	Welch	.331	1	68.134	.567
AvMentWL	Welch	4.913	1	67.250	.030
AvFam	Welch	2.809	1	67.835	.098
AvSCL	Welch	1.290	1	72.497	.260
HRVar_RMSSD	Welch	83.319	1	52.431	.000
HRVar_NN50	Welch	14.938	1	74.722	.000
NASA_MD	Welch	24.073	1	59.463	.000
NASA_PD	Welch	22.239	1	49.468	.000
NASA_TD	Welch	18.887	1	48.546	.000
NASA_Performance	Welch	9.168	1	77.513	.003
NASA_Effort	Welch	24.155	1	70.482	.000
NASA_Frustration	Welch	10.649	1	70.481	.002
NASA_Score	Welch	4.515	1	68.506	.037

a. Asymptotically F distributed.

ANOVA - use case templates, GenderMag risk facet, creation task

		Sum of Squares	df	Mean Square	F	Sig.
Precision	Between Groups	.732	1	.732	15.861	.000
	Within Groups	3.599	78	.046		
	Total	4.330	79			
Recall	Between Groups	.067	1	.067	1.356	.248
	Within Groups	3.879	78	.050		
	Total	3.947	79			
FMeasure	Between Groups	.317	1	.317	6.754	.011
	Within Groups	3.658	78	.047		
	Total	3.975	79			
Duration	Between Groups	50333.217	1	50333.217	2.286	.135
	Within Groups	1717325.170	78	22016.989		
	Total	1767658.388	79			
FirstActDet	Between Groups	118342.358	1	118342.358	48.283	.000
	Within Groups	191177.192	78	2450.990		
	Total	309519.550	79			
LastActDet	Between Groups	132612.942	1	132612.942	6.064	.016
	Within Groups	1705751.008	78	21868.603		
	Total	1838363.950	79			
ProcDur	Between Groups	19546.820	1	19546.820	511.599	.000
	Within Groups	2980.168	78	38.207		
	Total	22526.988	79			
FixRel	Between Groups	1.201	1	1.201	.110	.741
	Within Groups	853.013	78	10.936		
	Total	854.214	79			
FixIrrel	Between Groups	92228.861	1	92228.861	3.522	.064
	Within Groups	2042733.537	78	26188.892		
	Total	2134962.399	79			
AvDurRelFix	Between Groups	43536.810	1	43536.810	19.411	.000
	Within Groups	174946.101	78	2242.899		
	Total	218482.910	79			
AvDurIrrelFix	Between Groups	400048.409	1	400048.409	17.314	.000
	Within Groups	1802215.264	78	23105.324		
	Total	2202263.673	79			
TotSac	Between Groups	1386.681	1	1386.681	15.150	.000
	Within Groups	7139.269	78	91.529		
	Total	8525.950	79			
Sac2Key	Between Groups	999.695	1	999.695	15.561	.000
	Within Groups	5011.105	78	64.245		
	Total	6010.800	79			
AvAttention	Between Groups	.025	1	.025	.339	.562
	Within Groups	5.650	78	.072		
	Total	5.675	79			
AvMentWL	Between Groups	.291	1	.291	5.056	.027
	Within Groups	4.489	78	.058		
	Total	4.780	79			
AvFam	Between Groups	.187	1	.187	2.879	.094
	Within Groups	5.055	78	.065		
	Total	5.242	79			
AvSCL	Between Groups	27055.188	1	27055.188	1.278	.262
	Within Groups	1651350.699	78	21171.163		

		Sum of Squares	df	Mean Square	F	Sig.
	Total	1678405.887	79			
HRVar_RMSSD	Between Groups	14636.150	1	14636.150	63.654	.000
	Within Groups	17934.749	78	229.933		
	Total	32570.899	79			
HRVar_NN50	Between Groups	4586.471	1	4586.471	14.502	.000
	Within Groups	24669.460	78	316.275		
	Total	29255.931	79			
NASA_MD	Between Groups	1858.716	1	1858.716	26.083	.000
	Within Groups	5558.472	78	71.262		
	Total	7417.188	79			
NASA_PD	Between Groups	5826.407	1	5826.407	25.824	.000
	Within Groups	17598.593	78	225.623		
	Total	23425.000	79			
NASA_TD	Between Groups	5461.154	1	5461.154	22.085	.000
	Within Groups	19287.596	78	247.277		
	Total	24748.750	79			
NASA_Performance	Between Groups	4955.323	1	4955.323	8.568	.004
	Within Groups	45113.427	78	578.377		
	Total	50068.750	79			
NASA_Effort	Between Groups	2980.148	1	2980.148	24.297	.000
	Within Groups	9567.040	78	122.654		
	Total	12547.188	79			
NASA_Frustration	Between Groups	3896.471	1	3896.471	10.712	.002
	Within Groups	28373.529	78	363.763		
	Total	32270.000	79			
NASA_Score	Between Groups	691.227	1	691.227	4.607	.035
	Within Groups	11703.489	78	150.045		
	Total	12394.716	79			

Task * Risk - use case templates, GenderMag risk facet, creation task

Dependent Variable	Task	Risk	Mean	Std. Error	95% Confidence Interval Lower Bound	Upper Bound
Precision	ARNE Create	Abby	.804[a]	.056	.692	.917
		Tim	.513[a]	.053	.407	.618
	ALCO Create	Abby	.894[a]	.064	.765	1.023
		Tim	.837[a]	.054	.729	.945
Recall	ARNE Create	Abby	.702[a]	.059	.584	.820
		Tim	.598[a]	.055	.488	.708
	ALCO Create	Abby	.798[a]	.067	.663	.933
		Tim	.883[a]	.056	.771	.996
FMeasure	ARNE Create	Abby	.749[a]	.057	.635	.863
		Tim	.546[a]	.053	.439	.653
	ALCO Create	Abby	.841[a]	.065	.710	.972
		Tim	.859[a]	.055	.749	.968
Duration	ARNE Create	Abby	809.444[a]	27.994	753.320	865.569
		Tim	905.833[a]	26.213	853.279	958.388
	ALCO Create	Abby	608.937[a]	32.103	544.574	673.300
		Tim	659.950[a]	26.817	606.186	713.714
FirstActDet	ARNE Create	Abby	174.500[a]	8.272	157.915	191.085
		Tim	119.875[a]	7.746	104.345	135.405
	ALCO Create	Abby	213.040[a]	9.487	194.020	232.059
		Tim	160.008[a]	7.925	144.121	175.896
LastActDet	ARNE Create	Abby	767.056[a]	28.080	710.758	823.353
		Tim	898.510[a]	26.294	845.794	951.227
	ALCO Create	Abby	571.575[a]	32.202	507.014	636.137
		Tim	653.775[a]	26.899	599.846	707.704
ProcDur	ARNE Create	Abby	42.389[a]	1.767	38.847	45.931
		Tim	7.323[a]	1.654	4.006	10.640
	ALCO Create	Abby	37.361[a]	2.026	33.299	41.423
		Tim	6.175[a]	1.692	2.782	9.568
FixRel	ARNE Create	Abby	10.207[a]	.192	9.823	10.592
		Tim	10.328[a]	.180	9.968	10.688
	ALCO Create	Abby	3.668[a]	.220	3.227	4.109
		Tim	4.192[a]	.184	3.824	4.561
FixIrrel	ARNE Create	Abby	346.852[a]	19.899	306.958	386.746
		Tim	215.364[a]	18.633	178.008	252.721
	ALCO Create	Abby	4.698[a]	22.819	-41.052	50.448
		Tim	4.041[a]	19.062	-34.176	42.257
AvDurRelFix	ARNE Create	Abby	120.974[a]	9.903	101.119	140.829
		Tim	78.316[a]	9.273	59.724	96.909
	ALCO Create	Abby	155.603[a]	11.357	132.834	178.373
		Tim	133.442[a]	9.487	114.422	152.462
AvDurIrrelFix	ARNE Create	Abby	298.024[a]	28.690	240.503	355.545
		Tim		26.866	112.844	220.569

			166.706[a]			
	ALCO Create	Abby	444.810[a]	32.902	378.845	510.774
		Tim	378.325[a]	27.484	323.223	433.427
TotSac	ARNE Create	Abby	82.667[a]	2.705	77.243	88.090
		Tim	91.406[a]	2.533	86.327	96.485
	ALCO Create	Abby	82.984[a]	3.102	76.764	89.204
		Tim	89.425[a]	2.592	84.229	94.621
Sac2Key	ARNE Create	Abby	9.000[a]	2.160	4.669	13.331
		Tim	18.563[a]	2.023	14.507	22.618
	ALCO Create	Abby	13.992[a]	2.477	9.025	18.959
		Tim	18.200[a]	2.069	14.051	22.349
AvAttention	ARNE Create	Abby	.750[a]	.034	.682	.818
		Tim	.670[a]	.032	.606	.734
	ALCO Create	Abby	.310[a]	.039	.232	.388
		Tim	.463[a]	.033	.397	.528
AvMentWL	ARNE Create	Abby	.722[a]	.042	.637	.807
		Tim	.796[a]	.040	.716	.875
	ALCO Create	Abby	.315[a]	.049	.218	.413
		Tim	.454[a]	.041	.373	.535
AvFam	ARNE Create	Abby	.717[a]	.040	.637	.796
		Tim	.785[a]	.037	.711	.860
	ALCO Create	Abby	.279[a]	.046	.187	.370
		Tim	.363[a]	.038	.286	.439
AvSCL	ARNE Create	Abby	505.722[a]	38.031	429.476	581.969
		Tim	508.333[a]	35.612	436.936	579.730
	ALCO Create	Abby	585.298[a]	43.613	497.859	672.736
		Tim	588.183[a]	36.431	515.144	661.223
HRVar_RMSSD	ARNE Create	Abby	15.997[a]	4.127	7.722	24.271
		Tim	52.097[a]	3.865	44.348	59.845
	ALCO Create	Abby	20.184[a]	4.733	10.694	29.673
		Tim	45.472[a]	3.954	37.545	53.399
HRVar_NN50	ARNE Create	Abby	9.487[a]	4.810	-.155	19.130
		Tim	37.524[a]	4.504	28.495	46.554
	ALCO Create	Abby	16.239[a]	5.516	5.181	27.297
		Tim	31.404[a]	4.607	22.167	40.641
NASA_MD	ARNE Create	Abby	48.333[a]	2.214	43.894	52.772
		Tim	54.688[a]	2.073	50.531	58.844
	ALCO Create	Abby	42.798[a]	2.539	37.707	47.888
		Tim	54.958[a]	2.121	50.706	59.211
NASA_PD	ARNE Create	Abby	30.278[a]	3.980	22.299	38.256
		Tim	14.792[a]	3.726	7.321	22.263
	ALCO Create	Abby	27.143[a]	4.564	17.993	36.292
		Tim	8.958[a]	3.812	1.315	16.601
NASA_TD	ARNE Create	Abby	49.444[a]	3.343	42.742	56.147
		Tim	26.042[a]	3.130	19.765	32.318
	ALCO	Abby	30.843[a]	3.834	23.157	38.530

			Mean	Std. Error	Lower Bound	Upper Bound
	Create	Tim	16.083[a]	3.202	9.663	22.504
NASA_Performance	ARNE Create	Abby	61.944[a]	6.865	48.180	75.709
		Tim	32.604[a]	6.429	19.715	45.493
	ALCO Create	Abby	69.881[a]	7.873	54.096	85.666
		Tim	43.542[a]	6.577	30.356	56.727
NASA_Effort	ARNE Create	Abby	43.889[a]	3.113	37.648	50.130
		Tim	51.146[a]	2.915	45.302	56.990
	ALCO Create	Abby	37.530[a]	3.570	30.373	44.687
		Tim	53.125[a]	2.982	47.147	59.103
NASA_Frustration	ARNE Create	Abby	36.944[a]	5.417	26.085	47.804
		Tim	16.094[a]	5.072	5.925	26.263
	ALCO Create	Abby	41.310[a]	6.212	28.856	53.763
		Tim	24.667[a]	5.189	14.264	35.069
NASA_Score	ARNE Create	Abby	45.139[a]	3.378	38.367	51.911
		Tim	32.561[a]	3.163	26.219	38.902
	ALCO Create	Abby	44.042[a]	3.874	36.276	51.809
		Tim	37.129[a]	3.236	30.642	43.617

a. Based on modified population marginal mean.

Robust Tests of Equality of Means - use case templates, GenderMag learning style facet, creation task

		Statistic[a]	df1	df2	Sig.
Precision	Welch	.060	1	53.725	.807
Recall	Welch	.008	1	56.395	.931
FMeasure	Welch	.030	1	55.088	.864
Duration	Welch	.010	1	46.459	.922
FirstActDet	Welch	.035	1	45.659	.852
LastActDet	Welch	.010	1	46.492	.922
ProcDur	Welch	.000	1	52.047	.983
FixRel	Welch	.884	1	50.213	.352
FixIrrel	Welch	.486	1	52.903	.489
AvDurRelFix	Welch	.673	1	54.827	.416
AvDurIrrelFix	Welch	.756	1	53.758	.388
TotSac	Welch	.124	1	53.464	.726
Sac2Key	Welch	.273	1	54.477	.603
AvAttention	Welch	.282	1	51.613	.597
AvMentWL	Welch	.006	1	49.263	.939
AvFam	Welch	.009	1	49.422	.926
AvSCL	Welch	1.395	1	47.789	.243
HRVar_RMSSD	Welch	.671	1	56.474	.416
HRVar_NN50	Welch	1.310	1	53.096	.257
NASA_MD	Welch	.025	1	51.803	.875
NASA_PD	Welch	1.477	1	47.877	.230
NASA_TD	Welch	.048	1	63.009	.828
NASA_Performance	Welch	.074	1	50.827	.787
NASA_Effort	Welch	.547	1	60.320	.462
NASA_Frustration	Welch	.634	1	52.863	.430
NASA_Score	Welch	1.328	1	51.806	.254

a. Asymptotically F distributed.

ANOVA - use case templates, GenderMag learning style facet, creation task

		Sum of Squares	df	Mean Square	F	Sig.
Precision	Between Groups	.003	1	.003	.059	.808
	Within Groups	4.327	78	.055		
	Total	4.330	79			
Recall	Between Groups	.000	1	.000	.007	.933
	Within Groups	3.946	78	.051		
	Total	3.947	79			
FMeasure	Between Groups	.001	1	.001	.029	.866
	Within Groups	3.974	78	.051		
	Total	3.975	79			
Duration	Between Groups	240.854	1	240.854	.011	.918
	Within Groups	1767417.533	78	22659.199		
	Total	1767658.388	79			
FirstActDet	Between Groups	155.707	1	155.707	.039	.843
	Within Groups	309363.843	78	3966.203		
	Total	309519.550	79			
LastActDet	Between Groups	252.270	1	252.270	.011	.918
	Within Groups	1838111.680	78	23565.534		
	Total	1838363.950	79			
ProcDur	Between Groups	.132	1	.132	.000	.983
	Within Groups	22526.855	78	288.806		
	Total	22526.988	79			
FixRel	Between Groups	9.877	1	9.877	.912	.342
	Within Groups	844.338	78	10.825		
	Total	854.214	79			
FixIrrel	Between Groups	13145.202	1	13145.202	.483	.489
	Within Groups	2121817.197	78	27202.785		
	Total	2134962.399	79			
AvDurRelFix	Between Groups	1808.052	1	1808.052	.651	.422
	Within Groups	216674.859	78	2777.883		
	Total	218482.910	79			
AvDurIrrelFix	Between Groups	20761.692	1	20761.692	.742	.392
	Within Groups	2181501.982	78	27967.974		
	Total	2202263.673	79			
TotSac	Between Groups	13.302	1	13.302	.122	.728
	Within Groups	8512.648	78	109.137		
	Total	8525.950	79			
Sac2Key	Between Groups	20.395	1	20.395	.266	.608
	Within Groups	5990.405	78	76.800		
	Total	6010.800	79			
AvAttention	Between Groups	.021	1	.021	.286	.594
	Within Groups	5.654	78	.072		
	Total	5.675	79			
AvMentWL	Between Groups	.000	1	.000	.006	.937
	Within Groups	4.779	78	.061		
	Total	4.780	79			
AvFam	Between Groups	.001	1	.001	.009	.924
	Within Groups	5.241	78	.067		
	Total	5.242	79			
AvSCL	Between Groups	31573.503	1	31573.503	1.495	.225
	Within Groups	1646832.384	78	21113.236		

		Sum of Squares	df	Mean Square	F	Sig.
	Total	1678405.887	79			
HRVar_RMSSD	Between Groups	262.981	1	262.981	.635	.428
	Within Groups	32307.918	78	414.204		
	Total	32570.899	79			
HRVar_NN50	Between Groups	478.968	1	478.968	1.298	.258
	Within Groups	28776.963	78	368.935		
	Total	29255.931	79			
NASA_MD	Between Groups	2.408	1	2.408	.025	.874
	Within Groups	7414.780	78	95.061		
	Total	7417.187	79			
NASA_PD	Between Groups	465.496	1	465.496	1.581	.212
	Within Groups	22959.504	78	294.353		
	Total	23425.000	79			
NASA_TD	Between Groups	13.215	1	13.215	.042	.839
	Within Groups	24735.535	78	317.122		
	Total	24748.750	79			
NASA_Performance	Between Groups	48.240	1	48.240	.075	.785
	Within Groups	50020.510	78	641.289		
	Total	50068.750	79			
NASA_Effort	Between Groups	78.879	1	78.879	.493	.484
	Within Groups	12468.309	78	159.850		
	Total	12547.187	79			
NASA_Frustration	Between Groups	258.505	1	258.505	.630	.430
	Within Groups	32011.495	78	410.404		
	Total	32270.000	79			
NASA_Score	Between Groups	209.317	1	209.317	1.340	.251
	Within Groups	12185.398	78	156.223		
	Total	12394.716	79			

Task * LearningStyle - use case templates, GenderMag learning style facet, creation task

Dependent Variable	Task	LearningStyle	Mean	Std. Error	95% Confidence Interval Lower Bound	Upper Bound
Precision	ARNE Create	Abby	.625[a]	.066	.491	.758
		Tim	.645[a]	.047	.550	.740
	ALCO Create	Abby	.859[a]	.056	.746	.971
		Tim	.873[a]	.062	.748	.998
Recall	ARNE Create	Abby	.628[a]	.069	.488	.767
		Tim	.651[a]	.049	.552	.750
	ALCO Create	Abby	.847[a]	.059	.729	.965
		Tim	.834[a]	.065	.704	.965
FMeasure	ARNE Create	Abby	.622[a]	.067	.487	.757
		Tim	.640[a]	.048	.544	.736
	ALCO Create	Abby	.850[a]	.057	.736	.964
		Tim	.849[a]	.063	.722	.976
Duration	ARNE Create	Abby	864.500[a]	33.095	798.148	930.852
		Tim	864.537[a]	23.520	817.383	911.691
	ALCO Create	Abby	640.889[a]	27.994	584.764	697.013
		Tim	627.998[a]	31.082	565.682	690.313
FirstActDet	ARNE Create	Abby	139.750[a]	9.780	120.143	159.357
		Tim	145.250[a]	6.950	131.316	159.184
	ALCO Create	Abby	187.694[a]	8.272	171.109	204.280
		Tim	185.354[a]	9.185	166.939	203.768
LastActDet	ARNE Create	Abby	842.050[a]	33.197	775.494	908.606
		Tim	842.241[a]	23.592	794.942	889.540
	ALCO Create	Abby	620.778[a]	28.080	564.480	677.075
		Tim	604.573[a]	31.177	542.066	667.080
ProcDur	ARNE Create	Abby	22.450[a]	2.089	18.262	26.638
		Tim	22.296[a]	1.484	19.320	25.272
	ALCO Create	Abby	20.111[a]	1.767	16.569	23.653
		Tim	23.425[a]	1.962	19.492	27.358
FixRel	ARNE Create	Abby	10.585[a]	.227	10.131	11.040
		Tim	10.104[a]	.161	9.781	10.427
	ALCO Create	Abby	3.988[a]	.192	3.604	4.373
		Tim	3.872[a]	.213	3.445	4.299
FixIrrel	ARNE Create	Abby	315.505[a]	23.525	268.341	362.669
		Tim	247.389[a]	16.718	213.871	280.907
	ALCO Create	Abby	3.312[a]	19.899	-36.582	43.206
		Tim	5.426[a]	22.093	-38.869	49.721
AvDurRelFix	ARNE Create	Abby	112.155[a]	11.708	88.682	135.628
		Tim	87.956[a]	8.320	71.274	104.637
	ALCO Create	Abby	130.639[a]	9.903	110.784	150.494
		Tim	158.406[a]	10.996	136.361	180.451
AvDurIrrelFix	ARNE Create	Abby	266.455[a]	33.918	198.453	334.457
		Tim		24.105	150.508	247.163

			Mean	Std. Error	Lower Bound	Upper Bound
			198.836[a]			
	ALCO Create	Abby	369.917[a]	28.690	312.396	427.438
		Tim	453.218[a]	31.855	389.352	517.084
TotSac	ARNE Create	Abby	84.800[a]	3.198	78.388	91.212
		Tim	89.250[a]	2.273	84.693	93.807
	ALCO Create	Abby	85.639[a]	2.705	80.215	91.063
		Tim	86.770[a]	3.004	80.748	92.792
Sac2Key	ARNE Create	Abby	12.900[a]	2.554	7.780	18.020
		Tim	15.333[a]	1.815	11.694	18.972
	ALCO Create	Abby	16.819[a]	2.160	12.488	21.151
		Tim	15.373[a]	2.399	10.564	20.182
AvAttention	ARNE Create	Abby	.740[a]	.040	.659	.821
		Tim	.684[a]	.029	.627	.742
	ALCO Create	Abby	.421[a]	.034	.353	.489
		Tim	.352[a]	.038	.276	.428
AvMentWL	ARNE Create	Abby	.780[a]	.050	.680	.880
		Tim	.756[a]	.036	.684	.827
	ALCO Create	Abby	.442[a]	.042	.357	.527
		Tim	.328[a]	.047	.234	.422
AvFam	ARNE Create	Abby	.770[a]	.047	.676	.864
		Tim	.748[a]	.033	.681	.815
	ALCO Create	Abby	.367[a]	.040	.287	.446
		Tim	.274[a]	.044	.186	.363
AvSCL	ARNE Create	Abby	542.600[a]	44.960	452.460	632.740
		Tim	487.556[a]	31.952	423.496	551.615
	ALCO Create	Abby	599.500[a]	38.031	523.253	675.747
		Tim	573.981[a]	42.225	489.324	658.638
HRVar_RMSSD	ARNE Create	Abby	36.126[a]	4.879	26.343	45.909
		Tim	36.903[a]	3.468	29.950	43.855
	ALCO Create	Abby	27.285[a]	4.127	19.010	35.560
		Tim	38.370[a]	4.583	29.183	47.558
HRVar_NN50	ARNE Create	Abby	25.758[a]	5.686	14.358	37.158
		Tim	25.370[a]	4.041	17.268	33.471
	ALCO Create	Abby	16.229[a]	4.810	6.587	25.872
		Tim	31.414[a]	5.340	20.708	42.120
NASA_MD	ARNE Create	Abby	51.000[a]	2.618	45.752	56.248
		Tim	52.500[a]	1.860	48.770	56.230
	ALCO Create	Abby	53.750[a]	2.214	49.311	58.189
		Tim	44.006[a]	2.458	39.077	48.935
NASA_PD	ARNE Create	Abby	25.750[a]	4.705	16.318	35.182
		Tim	19.028[a]	3.343	12.325	25.731
	ALCO Create	Abby	18.750[a]	3.980	10.772	26.728
		Tim	17.351[a]	4.418	8.493	26.210
NASA_TD	ARNE Create	Abby	30.000[a]	3.952	22.076	37.924
		Tim	39.444[a]	2.809	33.813	45.076
	ALCO	Abby	26.528[a]	3.343	19.825	33.230

			Mean	Std. Error	Lower Bound	Upper Bound
	Create	Tim	20.399[a]	3.712	12.957	27.841
NASA_Performance	ARNE Create	Abby	42.500[a]	8.117	26.227	58.773
		Tim	46.667[a]	5.768	35.102	58.231
	ALCO Create	Abby	63.750[a]	6.865	49.986	77.514
		Tim	49.673[a]	7.623	34.390	64.955
NASA_Effort	ARNE Create	Abby	45.500[a]	3.680	38.122	52.878
		Tim	49.444[a]	2.615	44.201	54.688
	ALCO Create	Abby	48.958[a]	3.113	42.718	55.199
		Tim	41.696[a]	3.456	34.767	48.626
NASA_Frustration	ARNE Create	Abby	22.000[a]	6.404	9.162	34.838
		Tim	26.713[a]	4.551	17.589	35.837
	ALCO Create	Abby	37.917[a]	5.417	27.057	48.776
		Tim	28.060[a]	6.014	16.002	40.117
NASA_Score	ARNE Create	Abby	36.125[a]	3.993	28.119	44.131
		Tim	38.966[a]	2.838	33.276	44.656
	ALCO Create	Abby	46.224[a]	3.378	39.451	52.996
		Tim	34.948[a]	3.751	27.428	42.467

a. Based on modified population marginal mean.