

**Robust Tests of Equality of Means - i* concrete syntaxes,
GenderMag motivation facet, modification task**

		Statistic ^a	df1	df2	Sig.
Precision	Welch	5.061	1	81.807	.027
Recall	Welch	.616	1	78.466	.435
FMeasure	Welch	.629	1	82.312	.430
Duration	Welch	1.551	1	53.378	.218
FirstActDet	Welch	.274	1	70.457	.602
LastActDet	Welch	2.151	1	47.687	.149
ProcDur	Welch	.420	1	75.428	.519
FixRel	Welch	.032	1	70.051	.858
FixIrrel	Welch	.608	1	57.035	.439
AvDurRelFix	Welch	.002	1	67.174	.960
AvDurIrrelFix	Welch	.556	1	69.564	.458
TotSac	Welch	.192	1	71.365	.662
Sac2Key	Welch	.158	1	69.469	.692
AvAttention	Welch	.009	1	79.357	.926
AvMentWL	Welch	.020	1	72.964	.888
AvFam	Welch	1.544	1	71.328	.218
AvSCL	Welch	.092	1	63.869	.762
HRVar_RMSSD	Welch	2.638	1	70.723	.109
HRVar_NN50	Welch	1.755	1	74.166	.189
NASA_MD	Welch	.171	1	74.875	.680
NASA_PD	Welch	.267	1	67.820	.607
NASA_TD	Welch	.120	1	70.928	.730
NASA_Performance	Welch	1.002	1	77.586	.320
NASA_Effort	Welch	1.409	1	69.735	.239
NASA_Frustration	Welch	1.444	1	75.103	.233
NASA_Score	Welch	.209	1	81.135	.649

a. Asymptotically F distributed.

ANOVA - i* concrete syntaxes, GenderMag motivation facet, modification task

		Sum of Squares	df	Mean Square	F	Sig.
Precision	Between Groups	.233	1	.233	4.519	.036
	Within Groups	4.529	88	.051		
	Total	4.762	89			
Recall	Between Groups	.041	1	.041	.569	.453
	Within Groups	6.284	88	.071		
	Total	6.325	89			
FMeasure	Between Groups	.024	1	.024	.558	.457
	Within Groups	3.772	88	.043		
	Total	3.796	89			
Duration	Between Groups	481717.064	1	481717.064	1.825	.180
	Within Groups	23226862.936	88	263941.624		
	Total	23708580.000	89			
FirstActDet	Between Groups	22168.242	1	22168.242	.273	.603
	Within Groups	7157848.747	88	81339.190		
	Total	7180016.989	89			
LastActDet	Between Groups	727053.110	1	727053.110	2.717	.103
	Within Groups	23549473.112	88	267607.649		
	Total	24276526.222	89			
ProcDur	Between Groups	25158.938	1	25158.938	.399	.529
	Within Groups	5547532.618	88	63040.143		
	Total	5572691.556	89			
FixRel	Between Groups	.101	1	.101	.032	.859
	Within Groups	278.868	88	3.169		
	Total	278.969	89			
FixIrrel	Between Groups	11.266	1	11.266	.688	.409
	Within Groups	1441.690	88	16.383		
	Total	1452.956	89			
AvDurRelFix	Between Groups	191.854	1	191.854	.003	.960
	Within Groups	6641445.123	88	75470.967		
	Total	6641636.977	89			
AvDurIrrelFix	Between Groups	73213.312	1	73213.312	.558	.457
	Within Groups	11556250.709	88	131321.031		
	Total	11629464.021	89			
TotSac	Between Groups	113.081	1	113.081	.190	.664
	Within Groups	52439.541	88	595.904		
	Total	52552.622	89			
Sac2Key	Between Groups	144.378	1	144.378	.158	.692
	Within Groups	80207.722	88	911.451		
	Total	80352.100	89			
AvAttention	Between Groups	.000	1	.000	.008	.929
	Within Groups	3.545	88	.040		
	Total	3.545	89			
AvMentWL	Between Groups	.001	1	.001	.019	.890
	Within Groups	3.103	88	.035		
	Total	3.104	89			
AvFam	Between Groups	.045	1	.045	1.523	.220
	Within Groups	2.600	88	.030		
	Total	2.645	89			
AvSCL	Between Groups	2053.353	1	2053.353	.098	.756
	Within Groups	1852855.936	88	21055.181		

	Total	1854909.289	89			
HRVar_RMSSD	Between Groups	1124.678	1	1124.678	2.616	.109
	Within Groups	37828.454	88	429.869		
	Total	38953.132	89			
HRVar_NN50	Between Groups	650.891	1	650.891	1.688	.197
	Within Groups	33938.591	88	385.666		
	Total	34589.481	89			
NASA_MD	Between Groups	35.603	1	35.603	.163	.687
	Within Groups	19172.453	88	217.869		
	Total	19208.056	89			
NASA_PD	Between Groups	141.835	1	141.835	.272	.603
	Within Groups	45937.054	88	522.012		
	Total	46078.889	89			
NASA_TD	Between Groups	69.057	1	69.057	.119	.731
	Within Groups	51192.332	88	581.731		
	Total	51261.389	89			
NASA_Performance	Between Groups	762.400	1	762.400	.933	.337
	Within Groups	71890.100	88	816.933		
	Total	72652.500	89			
NASA_Effort	Between Groups	356.865	1	356.865	1.410	.238
	Within Groups	22267.857	88	253.044		
	Total	22624.722	89			
NASA_Frustration	Between Groups	830.561	1	830.561	1.376	.244
	Within Groups	53114.995	88	603.579		
	Total	53945.556	89			
NASA_Score	Between Groups	55.768	1	55.768	.188	.666
	Within Groups	26148.930	88	297.147		
	Total	26204.698	89			

Task * Motivation - i* concrete syntaxes, GenderMag motivation facet, modification task

Dependent Variable	Task	Motivation	Mean	Std. Error	95% Confidence Interval	
					Lower Bound	Upper Bound
Precision	i* 1.0 Modify	Abby	.630 ^a	.055	.520	.741
		Tim	.364 ^a	.041	.281	.446
	iStar 2.0 Modify	Abby	.619 ^a	.043	.533	.705
		Tim	.608 ^a	.032	.543	.672
Recall	i* 1.0 Modify	Abby	.529 ^a	.095	.340	.717
		Tim	.561 ^a	.071	.419	.702
	iStar 2.0 Modify	Abby	.627 ^a	.074	.480	.775
		Tim	.713 ^a	.055	.603	.823
FMeasure	i* 1.0 Modify	Abby	.530 ^a	.064	.402	.659
		Tim	.427 ^a	.048	.331	.524
	iStar 2.0 Modify	Abby	.569 ^a	.050	.469	.670
		Tim	.621 ^a	.038	.546	.696
Duration	i* 1.0 Modify	Abby	1118.256 ^a	123.443	871.862	1364.649
		Tim	1219.779 ^a	92.330	1035.488	1404.069
	iStar 2.0 Modify	Abby	1675.150 ^a	96.391	1482.753	1867.547
		Tim	1291.989 ^a	72.177	1147.923	1436.056
FirstActDet	i* 1.0 Modify	Abby	580.767 ^a	33.271	514.357	647.176
		Tim	639.911 ^a	24.885	590.239	689.582
	iStar 2.0 Modify	Abby	175.292 ^a	25.980	123.435	227.148
		Tim	193.824 ^a	19.454	154.994	232.654
LastActDet	i* 1.0 Modify	Abby	1080.128 ^a	102.727	875.084	1285.172
		Tim	1195.543 ^a	76.835	1042.180	1348.906
	iStar 2.0 Modify	Abby	1398.871 ^a	80.215	1238.761	1558.980
		Tim	861.964 ^a	60.065	742.075	981.854
ProcDur	i* 1.0 Modify	Abby	38.128 ^a	57.594	-76.830	153.085
		Tim	24.236 ^a	43.077	-61.747	110.218
	iStar 2.0 Modify	Abby	276.279 ^a	44.972	186.514	366.044
		Tim	430.025 ^a	33.675	362.809	497.241
FixRel	i* 1.0 Modify	Abby	5.088 ^a	.234	4.620	5.555
		Tim	4.951 ^a	.175	4.601	5.301
	iStar 2.0 Modify	Abby	1.744 ^a	.183	1.379	2.109
		Tim	1.552 ^a	.137	1.279	1.826
FixIrrel	i* 1.0 Modify	Abby	7.864 ^a	1.159	5.552	10.177
		Tim	3.968 ^a	.867	2.238	5.698
	iStar 2.0 Modify	Abby	3.386 ^a	.905	1.581	5.192
		Tim	4.244 ^a	.677	2.892	5.596
AvDurRelFix	i* 1.0 Modify	Abby	337.814 ^a	80.577	176.982	498.646
		Tim	363.195 ^a	60.268	242.900	483.490
	iStar 2.0 Modify	Abby	559.942 ^a	62.919	434.355	685.528
		Tim	490.158 ^a	47.113	396.119	584.196
AvDurIrrelFix	i* 1.0 Modify	Abby	661.442 ^a	117.239	427.432	895.451

		Tim	737.584 ^a	87.689	562.556	912.612
	iStar 2.0 Modify	Abby	718.726 ^a	91.546	535.999	901.454
		Tim	614.173 ^a	68.550	477.347	750.999
TotSac	i* 1.0 Modify	Abby	105.089 ^a	4.066	96.974	113.204
		Tim	104.843 ^a	3.041	98.773	110.913
	iStar 2.0 Modify	Abby	61.600 ^a	3.175	55.263	67.937
		Tim	61.482 ^a	2.377	56.737	66.227
Sac2Key	i* 1.0 Modify	Abby	88.028 ^a	3.391	81.259	94.797
		Tim	88.450 ^a	2.537	83.387	93.513
	iStar 2.0 Modify	Abby	27.958 ^a	2.648	22.673	33.244
		Tim	30.249 ^a	1.983	26.291	34.207
AvAttention	i* 1.0 Modify	Abby	.712 ^a	.057	.599	.825
		Tim	.681 ^a	.042	.597	.766
	iStar 2.0 Modify	Abby	.627 ^a	.044	.539	.715
		Tim	.689 ^a	.033	.623	.755
AvMentWL	i* 1.0 Modify	Abby	.602 ^a	.059	.484	.720
		Tim	.675 ^a	.044	.587	.764
	iStar 2.0 Modify	Abby	.629 ^a	.046	.537	.722
		Tim	.674 ^a	.035	.604	.743
AvFam	i* 1.0 Modify	Abby	.457 ^a	.053	.351	.563
		Tim	.585 ^a	.040	.505	.664
	iStar 2.0 Modify	Abby	.360 ^a	.042	.277	.443
		Tim	.390 ^a	.031	.328	.452
AvSCL	i* 1.0 Modify	Abby	655.506 ^a	46.651	562.390	748.621
		Tim	632.282 ^a	34.893	562.636	701.928
	iStar 2.0 Modify	Abby	799.517 ^a	36.427	726.807	872.226
		Tim	776.933 ^a	27.277	722.489	831.378
HRVar_RMSSD	i* 1.0 Modify	Abby	20.012 ^a	6.104	7.828	32.195
		Tim	43.482 ^a	4.565	34.370	52.595
	iStar 2.0 Modify	Abby	39.428 ^a	4.766	29.914	48.941
		Tim	40.761 ^a	3.569	33.638	47.885
HRVar_NN50	i* 1.0 Modify	Abby	9.201 ^a	6.458	-3.689	22.092
		Tim	26.525 ^a	4.830	16.884	36.167
	iStar 2.0 Modify	Abby	24.947 ^a	5.043	14.881	35.012
		Tim	27.255 ^a	3.776	19.718	34.793
NASA_MD	i* 1.0 Modify	Abby	81.278 ^a	4.838	71.621	90.934
		Tim	79.018 ^a	3.619	71.795	86.240
	iStar 2.0 Modify	Abby	71.625 ^a	3.778	64.085	79.165
		Tim	76.238 ^a	2.829	70.592	81.884
NASA_PD	i* 1.0 Modify	Abby	20.056 ^a	5.991	8.097	32.014
		Tim	35.000 ^a	4.481	26.056	43.944
	iStar 2.0 Modify	Abby	27.208 ^a	4.678	17.871	36.546
		Tim	26.726 ^a	3.503	19.734	33.718
NASA_TD	i* 1.0 Modify	Abby	53.194 ^a	7.489	38.247	68.142
		Tim	37.768 ^a	5.601	26.588	48.948

	iStar 2.0 Modify	Abby	49.062 ^a	5.847	37.391	60.734
		Tim	49.530 ^a	4.379	40.790	58.269
NASA_Performance	i* 1.0 Modify	Abby	45.361 ^a	9.005	27.387	63.336
		Tim	30.268 ^a	6.735	16.824	43.712
	iStar 2.0 Modify	Abby	58.729 ^a	7.032	44.694	72.765
		Tim	51.042 ^a	5.265	40.532	61.551
NASA_Effort	i* 1.0 Modify	Abby	68.417 ^a	5.192	58.054	78.779
		Tim	72.768 ^a	3.883	65.017	80.519
	iStar 2.0 Modify	Abby	64.562 ^a	4.054	56.471	72.654
		Tim	70.518 ^a	3.036	64.459	76.577
NASA_Frustration	i* 1.0 Modify	Abby	67.111 ^a	8.154	50.836	83.386
		Tim	50.357 ^a	6.099	38.184	62.530
	iStar 2.0 Modify	Abby	66.813 ^a	6.367	54.104	79.521
		Tim	61.173 ^a	4.768	51.657	70.689
NASA_Score	i* 1.0 Modify	Abby	55.903 ^a	5.480	44.964	66.841
		Tim	50.863 ^a	4.099	42.682	59.045
	iStar 2.0 Modify	Abby	65.011 ^a	4.279	56.470	73.552
		Tim	63.784 ^a	3.204	57.388	70.180

a. Based on modified population marginal mean.

**Robust Tests of Equality of Means - i* concrete syntaxes,
GenderMag information processing facet, modification task**

		Statistic ^a	df1	df2	Sig.
Precision	Welch	32.419	1	68.433	.000
Recall	Welch	2.925	1	51.769	.093
FMeasure	Welch	14.152	1	51.085	.000
Duration	Welch	4.832	1	58.734	.032
FirstActDet	Welch	15.779	1	50.648	.000
LastActDet	Welch	18.786	1	51.248	.000
ProcDur	Welch	38.101	1	72.257	.000
FixRel	Welch	2.783	1	59.222	.101
FixIrrel	Welch	29.999	1	80.686	.000
AvDurRelFix	Welch	7.466	1	45.909	.009
AvDurIrrelFix	Welch	.890	1	71.510	.349
TotSac	Welch	7.333	1	70.603	.008
Sac2Key	Welch	6.834	1	64.750	.011
AvAttention	Welch	36.308	1	55.291	.000
AvMentWL	Welch	14.085	1	66.011	.000
AvFam	Welch	17.831	1	63.033	.000
AvSCL	Welch	1.686	1	61.603	.199
HRVar_RMSSD	Welch	4.736	1	78.097	.033
HRVar_NN50	Welch	3.532	1	69.298	.064
NASA_MD	Welch	5.472	1	82.657	.022
NASA_PD	Welch	21.444	1	56.741	.000
NASA_TD	Welch	.684	1	85.496	.410
NASA_Performance	Welch	.628	1	75.770	.430
NASA_Effort	Welch	3.731	1	87.498	.057
NASA_Frustration	Welch	2.244	1	53.462	.140
NASA_Score	Welch	2.260	1	85.712	.136

a. Asymptotically F distributed.

ANOVA - i* concrete syntaxes, GenderMag information processing facet, modification task

		Sum of Squares	df	Mean Square	F	Sig.
Precision	Between Groups	1.207	1	1.207	29.872	.000
	Within Groups	3.555	88	.040		
	Total	4.762	89			
Recall	Between Groups	.229	1	.229	3.301	.073
	Within Groups	6.096	88	.069		
	Total	6.325	89			
FMeasure	Between Groups	.588	1	.588	16.138	.000
	Within Groups	3.208	88	.036		
	Total	3.796	89			
Duration	Between Groups	1267529.120	1	1267529.120	4.970	.028
	Within Groups	22441050.880	88	255011.942		
	Total	23708580.000	89			
FirstActDet	Between Groups	1225532.010	1	1225532.010	18.112	.000
	Within Groups	5954484.979	88	67664.602		
	Total	7180016.989	89			
LastActDet	Between Groups	4743452.096	1	4743452.096	21.370	.000
	Within Groups	19533074.126	88	221966.751		
	Total	24276526.222	89			
ProcDur	Between Groups	1106916.102	1	1106916.102	21.812	.000
	Within Groups	4465775.453	88	50747.448		
	Total	5572691.556	89			
FixRel	Between Groups	8.737	1	8.737	2.845	.095
	Within Groups	270.232	88	3.071		
	Total	278.969	89			
FixIrrel	Between Groups	250.385	1	250.385	18.322	.000
	Within Groups	1202.571	88	13.666		
	Total	1452.956	89			
AvDurRelFix	Between Groups	632537.399	1	632537.399	9.263	.003
	Within Groups	6009099.577	88	68285.222		
	Total	6641636.977	89			
AvDurIrrelFix	Between Groups	103927.419	1	103927.419	.794	.375
	Within Groups	11525536.602	88	130972.007		
	Total	11629464.021	89			
TotSac	Between Groups	3667.962	1	3667.962	6.603	.012
	Within Groups	48884.660	88	555.508		
	Total	52552.622	89			
Sac2Key	Between Groups	5569.636	1	5569.636	6.554	.012
	Within Groups	74782.464	88	849.801		
	Total	80352.100	89			
AvAttention	Between Groups	1.089	1	1.089	39.024	.000
	Within Groups	2.456	88	.028		
	Total	3.545	89			
AvMentWL	Between Groups	.408	1	.408	13.323	.000
	Within Groups	2.696	88	.031		
	Total	3.104	89			
AvFam	Between Groups	.437	1	.437	17.435	.000
	Within Groups	2.207	88	.025		
	Total	2.645	89			
AvSCL	Between Groups	34667.358	1	34667.358	1.676	.199

	Within Groups	1820241.931	88	20684.567		
	Total	1854909.289	89			
HRVar_RMSSD	Between Groups	1667.546	1	1667.546	3.936	.050
	Within Groups	37285.585	88	423.700		
	Total	38953.132	89			
HRVar_NN50	Between Groups	1222.714	1	1222.714	3.225	.076
	Within Groups	33366.767	88	379.168		
	Total	34589.481	89			
NASA_MD	Between Groups	715.819	1	715.819	3.406	.068
	Within Groups	18492.236	88	210.139		
	Total	19208.056	89			
NASA_PD	Between Groups	9420.961	1	9420.961	22.616	.000
	Within Groups	36657.928	88	416.567		
	Total	46078.889	89			
NASA_TD	Between Groups	298.950	1	298.950	.516	.474
	Within Groups	50962.438	88	579.119		
	Total	51261.389	89			
NASA_Performance	Between Groups	439.433	1	439.433	.535	.466
	Within Groups	72213.067	88	820.603		
	Total	72652.500	89			
NASA_Effort	Between Groups	670.403	1	670.403	2.687	.105
	Within Groups	21954.319	88	249.481		
	Total	22624.722	89			
NASA_Frustration	Between Groups	1474.615	1	1474.615	2.473	.119
	Within Groups	52470.940	88	596.261		
	Total	53945.556	89			
NASA_Score	Between Groups	496.145	1	496.145	1.698	.196
	Within Groups	25708.553	88	292.143		
	Total	26204.698	89			

Task * InformationProcessing - i* concrete syntaxes, GenderMag information processing facet, modification task

					95% Confidence Interval	
Dependent Variable	Task	InformationProcessing	Mean	Std. Error	Lower Bound	Upper Bound
Precision	i* 1.0 Modify	Abby	.591 ^a	.048	.495	.687
		Tim	.320 ^a	.043	.234	.407
	iStar 2.0 Modify	Abby	.668 ^a	.030	.608	.728
		Tim	.390 ^a	.050	.291	.490
Recall	i* 1.0 Modify	Abby	.590 ^a	.082	.427	.754
		Tim	.474 ^a	.074	.326	.623
	iStar 2.0 Modify	Abby	.697 ^a	.051	.595	.800
		Tim	.604 ^a	.085	.434	.774
FMeasure	i* 1.0 Modify	Abby	.543 ^a	.056	.432	.654
		Tim	.366 ^a	.051	.265	.467
	iStar 2.0 Modify	Abby	.637 ^a	.035	.567	.707
		Tim	.453 ^a	.058	.337	.569
Duration	i* 1.0 Modify	Abby	1125.650 ^a	106.930	912.216	1339.084
		Tim	1248.557 ^a	96.851	1055.240	1441.873
	iStar 2.0 Modify	Abby	1343.906 ^a	66.948	1210.278	1477.535
		Tim	1850.643 ^a	111.079	1628.929	2072.357
FirstActDet	i* 1.0 Modify	Abby	557.903 ^a	28.821	500.377	615.429
		Tim	700.150 ^a	26.104	648.046	752.254
	iStar 2.0 Modify	Abby	169.933 ^a	18.044	133.917	205.950
		Tim	252.321 ^a	29.939	192.564	312.079
LastActDet	i* 1.0 Modify	Abby	1096.325 ^a	88.986	918.709	1273.941
		Tim	1215.793 ^a	80.598	1054.919	1376.668
	iStar 2.0 Modify	Abby	899.404 ^a	55.713	788.201	1010.608
		Tim	1786.018 ^a	92.438	1601.512	1970.524
ProcDur	i* 1.0 Modify	Abby	29.325 ^a	49.889	-70.255	128.905
		Tim	32.763 ^a	45.187	-57.430	122.957
	iStar 2.0 Modify	Abby	444.502 ^a	31.235	382.156	506.848
		Tim	64.625 ^a	51.825	-38.818	168.068
FixRel	i* 1.0 Modify	Abby	5.146 ^a	.203	4.741	5.551
		Tim	4.802 ^a	.184	4.435	5.169
	iStar 2.0 Modify	Abby	1.702 ^a	.127	1.449	1.956
		Tim	1.334 ^a	.211	.914	1.755
FixIrrel	i* 1.0 Modify	Abby	7.354 ^a	1.004	5.351	9.357
		Tim	3.227 ^a	.909	1.413	5.041
	iStar 2.0 Modify	Abby	4.813 ^a	.628	3.559	6.067
		Tim	.253 ^a	1.042	-1.828	2.334
AvDurRelFix	i* 1.0 Modify	Abby	339.663 ^a	69.798	200.344	478.981
		Tim	370.389 ^a	63.219	244.203	496.576
	iStar 2.0 Modify	Abby	433.785 ^a	43.700	346.559	521.011
		Tim	855.216 ^a	72.506	710.493	999.938

AvDurlIrelFix	i* 1.0 Modify	Abby	666.988 ^a	101.556	464.281	869.694
		Tim	759.168 ^a	91.984	575.567	942.768
	iStar 2.0 Modify	Abby	729.249 ^a	63.583	602.337	856.162
		Tim	362.974 ^a	105.496	152.403	573.544
TotSac	i* 1.0 Modify	Abby	104.806 ^a	3.522	97.777	111.836
		Tim	105.197 ^a	3.190	98.830	111.564
	iStar 2.0 Modify	Abby	61.081 ^a	2.205	56.680	65.482
		Tim	63.321 ^a	3.658	56.019	70.624
Sac2Key	i* 1.0 Modify	Abby	88.062 ^a	2.938	82.199	93.926
		Tim	88.563 ^a	2.661	83.252	93.874
	iStar 2.0 Modify	Abby	29.148 ^a	1.839	25.477	32.819
		Tim	30.071 ^a	3.052	23.980	36.163
AvAttention	i* 1.0 Modify	Abby	.779 ^a	.049	.681	.877
		Tim	.561 ^a	.044	.472	.650
	iStar 2.0 Modify	Abby	.712 ^a	.031	.651	.774
		Tim	.473 ^a	.051	.372	.575
AvMentWL	i* 1.0 Modify	Abby	.640 ^a	.051	.537	.742
		Tim	.645 ^a	.046	.552	.737
	iStar 2.0 Modify	Abby	.680 ^a	.032	.615	.744
		Tim	.561 ^a	.053	.454	.667
AvFam	i* 1.0 Modify	Abby	.478 ^a	.046	.386	.570
		Tim	.603 ^a	.042	.519	.686
	iStar 2.0 Modify	Abby	.360 ^a	.029	.302	.417
		Tim	.452 ^a	.048	.356	.547
AvSCL	i* 1.0 Modify	Abby	649.791 ^a	40.410	569.131	730.450
		Tim	632.137 ^a	36.601	559.080	705.193
	iStar 2.0 Modify	Abby	790.396 ^a	25.300	739.896	840.896
		Tim	768.250 ^a	41.978	684.462	852.038
HRVar_RMSSD	i* 1.0 Modify	Abby	34.888 ^a	5.287	24.334	45.441
		Tim	29.069 ^a	4.789	19.510	38.628
	iStar 2.0 Modify	Abby	40.120 ^a	3.310	33.512	46.727
		Tim	40.660 ^a	5.493	29.697	51.623
HRVar_NN50	i* 1.0 Modify	Abby	20.632 ^a	5.594	9.465	31.798
		Tim	15.167 ^a	5.067	5.053	25.281
	iStar 2.0 Modify	Abby	26.860 ^a	3.503	19.869	33.851
		Tim	24.220 ^a	5.811	12.621	35.820
NASA_MD	i* 1.0 Modify	Abby	83.328 ^a	4.191	74.963	91.693
		Tim	74.833 ^a	3.796	67.257	82.410
	iStar 2.0 Modify	Abby	75.000 ^a	2.624	69.763	80.237
		Tim	71.964 ^a	4.353	63.275	80.654
NASA_PD	i* 1.0 Modify	Abby	16.656 ^a	5.190	6.298	27.015
		Tim	46.417 ^a	4.701	37.034	55.799
	iStar 2.0 Modify	Abby	23.917 ^a	3.249	17.431	30.402
		Tim	38.929 ^a	5.391	28.168	49.689
NASA_TD	i* 1.0 Modify	Abby	45.859 ^a	6.487	32.912	58.807

	iStar 2.0 Modify	Tim	43.333 ^a	5.875	31.606	55.061
		Abby	51.969 ^a	4.061	43.862	60.075
NASA_Performance	i* 1.0 Modify	Tim	38.839 ^a	6.738	25.389	52.289
		Abby	37.016 ^a	7.801	21.446	52.586
	iStar 2.0 Modify	Tim	37.583 ^a	7.065	23.481	51.686
		Abby	56.240 ^a	4.884	46.491	65.988
NASA_Effort	i* 1.0 Modify	Tim	45.625 ^a	8.103	29.451	61.799
		Abby	73.266 ^a	4.497	64.289	82.242
	iStar 2.0 Modify	Tim	66.750 ^a	4.073	58.620	74.880
		Abby	68.719 ^a	2.816	63.099	74.339
NASA_Frustration	i* 1.0 Modify	Tim	65.804 ^a	4.672	56.479	75.128
		Abby	60.281 ^a	7.063	46.183	74.379
	iStar 2.0 Modify	Tim	54.583 ^a	6.397	41.814	67.352
		Abby	67.344 ^a	4.422	58.517	76.170
NASA_Score	i* 1.0 Modify	Tim	47.768 ^a	7.337	33.123	62.413
		Abby	52.734 ^a	4.747	43.259	62.210
	iStar 2.0 Modify	Tim	53.917 ^a	4.300	45.334	62.499
		Abby	66.022 ^a	2.972	60.090	71.955
		Tim	57.286 ^a	4.931	47.443	67.129

a. Based on modified population marginal mean.

**Robust Tests of Equality of Means - i* concrete syntaxes,
GenderMag self-efficacy facet, modification task**

		Statistic ^a	df1	df2	Sig.
Precision	Welch	3.301	1	75.270	.073
Recall	Welch	.104	1	64.732	.748
FMeasure	Welch	.324	1	66.756	.571
Duration	Welch	10.165	1	60.944	.002
FirstActDet	Welch	.952	1	62.659	.333
LastActDet	Welch	18.521	1	54.281	.000
ProcDur	Welch	6.208	1	85.943	.015
FixRel	Welch	.260	1	63.290	.612
FixIrrel	Welch	20.037	1	81.899	.000
AvDurRelFix	Welch	11.669	1	51.769	.001
AvDurIrrelFix	Welch	.530	1	69.594	.469
TotSac	Welch	.699	1	80.491	.406
Sac2Key	Welch	.074	1	70.780	.786
AvAttention	Welch	8.433	1	64.524	.005
AvMentWL	Welch	12.579	1	73.882	.001
AvFam	Welch	1.048	1	66.235	.310
AvSCL	Welch	1.006	1	55.187	.320
HRVar_RMSSD	Welch	2.075	1	76.062	.154
HRVar_NN50	Welch	.340	1	70.001	.561
NASA_MD	Welch	5.136	1	87.615	.026
NASA_PD	Welch	4.476	1	66.611	.038
NASA_TD	Welch	.004	1	84.342	.948
NASA_Performance	Welch	.088	1	76.383	.768
NASA_Effort	Welch	2.725	1	84.262	.103
NASA_Frustration	Welch	.772	1	63.638	.383
NASA_Score	Welch	.841	1	86.029	.362

a. Asymptotically F distributed.

ANOVA - i* concrete syntaxes, GenderMag self-efficacy facet, modification task

		Sum of Squares	df	Mean Square	F	Sig.
Precision	Between Groups	.164	1	.164	3.142	.080
	Within Groups	4.598	88	.052		
	Total	4.762	89			
Recall	Between Groups	.008	1	.008	.109	.742
	Within Groups	6.317	88	.072		
	Total	6.325	89			
FMeasure	Between Groups	.014	1	.014	.333	.565
	Within Groups	3.782	88	.043		
	Total	3.796	89			
Duration	Between Groups	2642828.908	1	2642828.908	11.040	.001
	Within Groups	21065751.092	88	239383.535		
	Total	23708580.000	89			
FirstActDet	Between Groups	82009.536	1	82009.536	1.017	.316
	Within Groups	7098007.453	88	80659.176		
	Total	7180016.989	89			
LastActDet	Between Groups	4778923.924	1	4778923.924	21.569	.000
	Within Groups	19497602.298	88	221563.662		
	Total	24276526.222	89			
ProcDur	Between Groups	314044.820	1	314044.820	5.255	.024
	Within Groups	5258646.735	88	59757.349		
	Total	5572691.556	89			
FixRel	Between Groups	.873	1	.873	.276	.601
	Within Groups	278.097	88	3.160		
	Total	278.969	89			
FixIrrel	Between Groups	203.380	1	203.380	14.323	.000
	Within Groups	1249.576	88	14.200		
	Total	1452.956	89			
AvDurRelFix	Between Groups	911050.562	1	911050.562	13.990	.000
	Within Groups	5730586.415	88	65120.300		
	Total	6641636.977	89			
AvDurIrrelFix	Between Groups	69700.487	1	69700.487	.531	.468
	Within Groups	11559763.534	88	131360.949		
	Total	11629464.021	89			
TotSac	Between Groups	375.165	1	375.165	.633	.428
	Within Groups	52177.457	88	592.926		
	Total	52552.622	89			
Sac2Key	Between Groups	67.302	1	67.302	.074	.787
	Within Groups	80284.798	88	912.327		
	Total	80352.100	89			
AvAttention	Between Groups	.324	1	.324	8.850	.004
	Within Groups	3.221	88	.037		
	Total	3.545	89			
AvMentWL	Between Groups	.376	1	.376	12.125	.001
	Within Groups	2.728	88	.031		
	Total	3.104	89			
AvFam	Between Groups	.032	1	.032	1.082	.301
	Within Groups	2.612	88	.030		
	Total	2.645	89			
AvSCL	Between Groups	24126.008	1	24126.008	1.160	.284
	Within Groups	1830783.280	88	20804.355		
	Total					

	Total	1854909.289	89			
HRVar_RMSSD	Between Groups	849.006	1	849.006	1.961	.165
	Within Groups	38104.125	88	433.001		
	Total	38953.132	89			
HRVar_NN50	Between Groups	133.047	1	133.047	.340	.561
	Within Groups	34456.435	88	391.550		
	Total	34589.481	89			
NASA_MD	Between Groups	829.169	1	829.169	3.970	.049
	Within Groups	18378.887	88	208.851		
	Total	19208.056	89			
NASA_PD	Between Groups	2292.439	1	2292.439	4.607	.035
	Within Groups	43786.450	88	497.573		
	Total	46078.889	89			
NASA_TD	Between Groups	2.171	1	2.171	.004	.951
	Within Groups	51259.217	88	582.491		
	Total	51261.389	89			
NASA_Performance	Between Groups	68.256	1	68.256	.083	.774
	Within Groups	72584.244	88	824.821		
	Total	72652.500	89			
NASA_Effort	Between Groups	591.765	1	591.765	2.364	.128
	Within Groups	22032.957	88	250.375		
	Total	22624.722	89			
NASA_Frustration	Between Groups	496.081	1	496.081	.817	.369
	Within Groups	53449.475	88	607.380		
	Total	53945.556	89			
NASA_Score	Between Groups	209.991	1	209.991	.711	.401
	Within Groups	25994.707	88	295.394		
	Total	26204.698	89			

Task * SelfEfficacy - i* concrete syntaxes, GenderMag self-efficacy facet, modification task

Dependent Variable	Task	SelfEfficacy	Mean	Std. Error	95% Confidence Interval	
					Lower Bound	Upper Bound
Precision	i* 1.0 Modify	Abby	.513 ^a	.044	.425	.601
		Tim	.464 ^a	.050	.364	.565
	iStar 2.0 Modify	Abby	.676 ^a	.031	.614	.738
		Tim	.548 ^a	.042	.465	.632
Recall	i* 1.0 Modify	Abby	.472 ^a	.075	.321	.623
		Tim	.609 ^a	.086	.437	.781
	iStar 2.0 Modify	Abby	.689 ^a	.053	.583	.795
		Tim	.668 ^a	.071	.526	.811
FMeasure	i* 1.0 Modify	Abby	.423 ^a	.051	.320	.525
		Tim	.520 ^a	.059	.403	.637
	iStar 2.0 Modify	Abby	.648 ^a	.036	.576	.720
		Tim	.552 ^a	.049	.455	.649
Duration	i* 1.0 Modify	Abby	1127.442 ^a	98.406	931.022	1323.861
		Tim	1211.905 ^a	112.274	987.804	1436.005
	iStar 2.0 Modify	Abby	1201.250 ^a	69.093	1063.340	1339.160
		Tim	1689.257 ^a	93.136	1503.357	1875.157
FirstActDet	i* 1.0 Modify	Abby	574.329 ^a	26.523	521.389	627.270
		Tim	645.429 ^a	30.261	585.027	705.830
	iStar 2.0 Modify	Abby	207.760 ^a	18.622	170.589	244.931
		Tim	165.062 ^a	25.103	114.957	215.167
LastActDet	i* 1.0 Modify	Abby	1095.650 ^a	81.892	932.193	1259.107
		Tim	1182.238 ^a	93.433	995.746	1368.730
	iStar 2.0 Modify	Abby	751.080 ^a	57.498	636.313	865.847
		Tim	1402.374 ^a	77.506	1247.671	1557.077
ProcDur	i* 1.0 Modify	Abby	31.792 ^a	45.912	-59.850	123.433
		Tim	29.667 ^a	52.383	-74.890	134.223
	iStar 2.0 Modify	Abby	450.170 ^a	32.236	385.826	514.514
		Tim	286.883 ^a	43.454	200.150	373.617
FixRel	i* 1.0 Modify	Abby	4.830 ^a	.187	4.457	5.202
		Tim	5.172 ^a	.213	4.747	5.597
	iStar 2.0 Modify	Abby	1.596 ^a	.131	1.334	1.858
		Tim	1.662 ^a	.177	1.309	2.014
FixIrrel	i* 1.0 Modify	Abby	7.996 ^a	.924	6.153	9.840
		Tim	3.855 ^a	1.054	1.752	5.958
	iStar 2.0 Modify	Abby	5.478 ^a	.648	4.183	6.772
		Tim	2.324 ^a	.874	.579	4.069
AvDurRelFix	i* 1.0 Modify	Abby	340.110 ^a	64.234	211.898	468.323
		Tim	361.226 ^a	73.287	214.946	507.507
	iStar 2.0 Modify	Abby	384.513 ^a	45.100	294.493	474.534
		Tim	651.629 ^a	60.794	530.284	772.975
AvDurIrrelFix	i* 1.0 Modify	Abby	668.331 ^a	93.460	481.783	854.879

		Tim	731.679 ^a	106.631	518.841	944.516
	iStar 2.0 Modify	Abby	718.361 ^a	65.621	587.382	849.340
		Tim	593.627 ^a	88.455	417.070	770.184
TotSac	i* 1.0 Modify	Abby	104.017 ^a	3.241	97.547	110.486
		Tim	105.762 ^a	3.698	98.381	113.143
	iStar 2.0 Modify	Abby	58.830 ^a	2.276	54.288	63.372
		Tim	64.229 ^a	3.068	58.106	70.351
	Sac2Key	i* 1.0 Modify	Abby	86.358 ^a	2.704	80.962
Tim			89.881 ^a	3.085	83.724	96.038
iStar 2.0 Modify		Abby	30.070 ^a	1.898	26.281	33.859
		Tim	28.595 ^a	2.559	23.488	33.702
AvAttention		i* 1.0 Modify	Abby	.698 ^a	.045	.608
	Tim		.693 ^a	.051	.590	.796
	iStar 2.0 Modify	Abby	.753 ^a	.032	.690	.816
		Tim	.576 ^a	.043	.491	.661
	AvMentWL	i* 1.0 Modify	Abby	.639 ^a	.047	.544
Tim			.644 ^a	.054	.536	.752
iStar 2.0 Modify		Abby	.754 ^a	.033	.688	.820
		Tim	.558 ^a	.045	.468	.647
AvFam		i* 1.0 Modify	Abby	.505 ^a	.042	.420
	Tim		.544 ^a	.048	.447	.641
	iStar 2.0 Modify	Abby	.402 ^a	.030	.343	.461
		Tim	.354 ^a	.040	.274	.434
	AvSCL	i* 1.0 Modify	Abby	679.613 ^a	37.189	605.383
Tim			611.619 ^a	42.430	526.929	696.309
iStar 2.0 Modify		Abby	782.300 ^a	26.111	730.182	834.418
		Tim	789.633 ^a	35.197	719.379	859.887
HRVar_RMSSD		i* 1.0 Modify	Abby	32.059 ^a	4.866	22.346
	Tim		33.156 ^a	5.552	22.075	44.237
	iStar 2.0 Modify	Abby	41.152 ^a	3.416	34.332	47.971
		Tim	39.304 ^a	4.605	30.112	48.496
	HRVar_NN50	i* 1.0 Modify	Abby	19.349 ^a	5.148	9.073
Tim			17.827 ^a	5.874	6.103	29.552
iStar 2.0 Modify		Abby	22.584 ^a	3.615	15.369	29.799
		Tim	30.080 ^a	4.873	20.354	39.806
NASA_MD		i* 1.0 Modify	Abby	84.021 ^a	3.857	76.323
	Tim		76.667 ^a	4.400	67.884	85.450
	iStar 2.0 Modify	Abby	77.000 ^a	2.708	71.595	82.405
		Tim	71.786 ^a	3.650	64.500	79.071
	NASA_PD	i* 1.0 Modify	Abby	22.000 ^a	4.776	12.467
Tim			33.333 ^a	5.449	22.457	44.210
iStar 2.0 Modify		Abby	27.100 ^a	3.353	20.407	33.793
		Tim	26.738 ^a	4.520	17.716	35.761
NASA_TD		i* 1.0 Modify	Abby	45.729 ^a	5.970	33.814
	Tim		44.167 ^a	6.811	30.572	57.762

	iStar 2.0 Modify	Abby	51.150 ^a	4.191	42.784	59.516
		Tim	47.536 ^a	5.650	36.258	58.813
NASA_Performance	i* 1.0 Modify	Abby	35.396 ^a	7.179	21.067	49.725
		Tim	38.810 ^a	8.190	22.461	55.158
	iStar 2.0 Modify	Abby	60.150 ^a	5.040	50.089	70.211
		Tim	48.083 ^a	6.794	34.522	61.645
NASA_Effort	i* 1.0 Modify	Abby	73.729 ^a	4.139	65.468	81.990
		Tim	68.214 ^a	4.722	58.789	77.639
	iStar 2.0 Modify	Abby	70.450 ^a	2.906	64.650	76.250
		Tim	65.821 ^a	3.917	58.003	73.640
NASA_Frustration	i* 1.0 Modify	Abby	59.750 ^a	6.500	46.776	72.724
		Tim	56.667 ^a	7.416	41.864	71.469
	iStar 2.0 Modify	Abby	67.250 ^a	4.564	58.141	76.359
		Tim	59.607 ^a	6.152	47.328	71.886
NASA_Score	i* 1.0 Modify	Abby	53.438 ^a	4.369	44.718	62.157
		Tim	52.976 ^a	4.984	43.027	62.925
	iStar 2.0 Modify	Abby	68.280 ^a	3.067	62.158	74.402
		Tim	60.270 ^a	4.135	52.017	68.523

a. Based on modified population marginal mean.

**Robust Tests of Equality of Means - i* concrete syntaxes,
GenderMag risk facet, modification task**

		Statistic ^a	df1	df2	Sig.
Precision	Welch	9.038	1	55.795	.004
Recall	Welch	1.828	1	79.628	.180
FMeasure	Welch	.821	1	63.547	.368
Duration	Welch	3.948	1	56.320	.052
FirstActDet	Welch	19.760	1	66.997	.000
LastActDet	Welch	8.068	1	55.602	.006
ProcDur	Welch	3.567	1	83.828	.062
FixRel	Welch	3.814	1	77.705	.054
FixIrrel	Welch	.771	1	60.686	.383
AvDurRelFix	Welch	1.338	1	59.189	.252
AvDurIrrelFix	Welch	.276	1	87.466	.600
TotSac	Welch	3.479	1	80.107	.066
Sac2Key	Welch	4.675	1	78.135	.034
AvAttention	Welch	1.048	1	72.183	.309
AvMentWL	Welch	2.751	1	83.022	.101
AvFam	Welch	11.137	1	76.666	.001
AvSCL	Welch	.162	1	78.099	.689
HRVar_RMSSD	Welch	37.070	1	85.058	.000
HRVar_NN50	Welch	16.000	1	86.630	.000
NASA_MD	Welch	.094	1	63.558	.760
NASA_PD	Welch	21.163	1	55.789	.000
NASA_TD	Welch	22.181	1	60.391	.000
NASA_Performance	Welch	12.920	1	75.310	.001
NASA_Effort	Welch	1.813	1	68.042	.183
NASA_Frustration	Welch	14.825	1	76.532	.000
NASA_Score	Welch	7.869	1	63.205	.007

a. Asymptotically F distributed.

ANOVA - i* concrete syntaxes, GenderMag risk facet, modification task

		Sum of Squares	df	Mean Square	F	Sig.
Precision	Between Groups	.510	1	.510	10.546	.002
	Within Groups	4.252	88	.048		
	Total	4.762	89			
Recall	Between Groups	.124	1	.124	1.764	.188
	Within Groups	6.201	88	.070		
	Total	6.325	89			
FMeasure	Between Groups	.038	1	.038	.898	.346
	Within Groups	3.758	88	.043		
	Total	3.796	89			
Duration	Between Groups	1174134.074	1	1174134.074	4.585	.035
	Within Groups	22534445.926	88	256073.249		
	Total	23708580.000	89			
FirstActDet	Between Groups	1385024.267	1	1385024.267	21.032	.000
	Within Groups	5794992.722	88	65852.190		
	Total	7180016.989	89			
LastActDet	Between Groups	2349600.741	1	2349600.741	9.430	.003
	Within Groups	21926925.481	88	249169.608		
	Total	24276526.222	89			
ProcDur	Between Groups	201840.000	1	201840.000	3.307	.072
	Within Groups	5370851.556	88	61032.404		
	Total	5572691.556	89			
FixRel	Between Groups	11.366	1	11.366	3.738	.056
	Within Groups	267.603	88	3.041		
	Total	278.969	89			
FixIrrel	Between Groups	14.109	1	14.109	.863	.355
	Within Groups	1438.847	88	16.351		
	Total	1452.956	89			
AvDurRelFix	Between Groups	112481.922	1	112481.922	1.516	.222
	Within Groups	6529155.055	88	74194.944		
	Total	6641636.977	89			
AvDurIrrelFix	Between Groups	32001.124	1	32001.124	.243	.623
	Within Groups	11597462.897	88	131789.351		
	Total	11629464.021	89			
TotSac	Between Groups	1922.891	1	1922.891	3.342	.071
	Within Groups	50629.731	88	575.338		
	Total	52552.622	89			
Sac2Key	Between Groups	3963.646	1	3963.646	4.566	.035
	Within Groups	76388.454	88	868.051		
	Total	80352.100	89			
AvAttention	Between Groups	.043	1	.043	1.072	.303
	Within Groups	3.502	88	.040		
	Total	3.545	89			
AvMentWL	Between Groups	.088	1	.088	2.573	.112
	Within Groups	3.016	88	.034		
	Total	3.104	89			
AvFam	Between Groups	.294	1	.294	11.007	.001
	Within Groups	2.351	88	.027		
	Total	2.645	89			
AvSCL	Between Groups	3320.224	1	3320.224	.158	.692
	Within Groups	1851589.065	88	21040.785		

	Total	1854909.289	89			
HRVar_RMSSD	Between Groups	9834.949	1	9834.949	29.723	.000
	Within Groups	29118.183	88	330.888		
	Total	38953.132	89			
HRVar_NN50	Between Groups	4836.173	1	4836.173	14.304	.000
	Within Groups	29753.309	88	338.106		
	Total	34589.481	89			
NASA_MD	Between Groups	22.407	1	22.407	.103	.749
	Within Groups	19185.648	88	218.019		
	Total	19208.056	89			
NASA_PD	Between Groups	10096.713	1	10096.713	24.693	.000
	Within Groups	35982.176	88	408.888		
	Total	46078.889	89			
NASA_TD	Between Groups	11297.963	1	11297.963	24.878	.000
	Within Groups	39963.426	88	454.130		
	Total	51261.389	89			
NASA_Performance	Between Groups	9291.852	1	9291.852	12.905	.001
	Within Groups	63360.648	88	720.007		
	Total	72652.500	89			
NASA_Effort	Between Groups	481.667	1	481.667	1.914	.170
	Within Groups	22143.056	88	251.626		
	Total	22624.722	89			
NASA_Frustration	Between Groups	7706.667	1	7706.667	14.667	.000
	Within Groups	46238.889	88	525.442		
	Total	53945.556	89			
NASA_Score	Between Groups	2339.585	1	2339.585	8.627	.004
	Within Groups	23865.113	88	271.194		
	Total	26204.698	89			

Task * Risk - i* concrete syntaxes, GenderMag risk facet, modification task

Dependent Variable	Task	Risk	Mean	Std. Error	95% Confidence Interval	
					Lower Bound	Upper Bound
Precision	i* 1.0 Modify	Abby	.587 ^a	.044	.499	.676
		Tim	.401 ^a	.050	.301	.501
	iStar 2.0 Modify	Abby	.777 ^a	.044	.688	.866
		Tim	.502 ^a	.032	.439	.565
Recall	i* 1.0 Modify	Abby	.510 ^a	.076	.359	.662
		Tim	.576 ^a	.086	.405	.747
	iStar 2.0 Modify	Abby	.622 ^a	.076	.470	.774
		Tim	.717 ^a	.054	.609	.825
FMeasure	i* 1.0 Modify	Abby	.493 ^a	.052	.390	.596
		Tim	.460 ^a	.058	.343	.576
	iStar 2.0 Modify	Abby	.647 ^a	.052	.543	.750
		Tim	.569 ^a	.037	.496	.643
Duration	i* 1.0 Modify	Abby	1199.789 ^a	99.142	1001.900	1397.678
		Tim	1149.893 ^a	111.797	926.744	1373.042
	iStar 2.0 Modify	Abby	1554.937 ^a	99.069	1357.195	1752.680
		Tim	1372.131 ^a	70.547	1231.318	1512.944
FirstActDet	i* 1.0 Modify	Abby	657.100 ^a	26.722	603.764	710.436
		Tim	574.482 ^a	30.132	514.338	634.627
	iStar 2.0 Modify	Abby	248.437 ^a	26.702	195.141	301.734
		Tim	145.060 ^a	19.014	107.107	183.013
LastActDet	i* 1.0 Modify	Abby	1152.094 ^a	82.505	987.415	1316.774
		Tim	1133.857 ^a	93.036	948.157	1319.558
	iStar 2.0 Modify	Abby	1241.875 ^a	82.443	1077.317	1406.433
		Tim	966.628 ^a	58.708	849.446	1083.810
ProcDur	i* 1.0 Modify	Abby	47.694 ^a	46.256	-44.633	140.022
		Tim	16.036 ^a	52.160	-88.077	120.148
	iStar 2.0 Modify	Abby	313.063 ^a	46.222	220.804	405.321
		Tim	405.503 ^a	32.915	339.805	471.201
FixRel	i* 1.0 Modify	Abby	4.652 ^a	.188	4.276	5.027
		Tim	5.324 ^a	.212	4.901	5.748
	iStar 2.0 Modify	Abby	1.588 ^a	.188	1.212	1.963
		Tim	1.656 ^a	.134	1.389	1.924
FixIrrel	i* 1.0 Modify	Abby	6.934 ^a	.930	5.077	8.792
		Tim	4.765 ^a	1.049	2.671	6.860
	iStar 2.0 Modify	Abby	4.266 ^a	.930	2.410	6.122
		Tim	3.658 ^a	.662	2.336	4.979
AvDurRelFix	i* 1.0 Modify	Abby	358.197 ^a	64.715	229.026	487.369
		Tim	345.723 ^a	72.975	200.064	491.383
	iStar 2.0 Modify	Abby	605.549 ^a	64.667	476.473	734.625
		Tim	459.753 ^a	46.049	367.838	551.668
AvDurIrrelFix	i* 1.0 Modify	Abby	722.592 ^a	94.160	534.648	910.535

		Tim	685.170 ^a	106.179	473.236	897.103	
		iStar 2.0	Abby	578.426 ^a	94.090	390.622	766.230
		Modify	Tim	707.706 ^a	67.002	573.971	841.442
TotSac	i* 1.0	Abby	103.656 ^a	3.265	97.138	110.173	
		Modify	Tim	106.071 ^a	3.682	98.722	113.421
	iStar 2.0	Abby	60.812 ^a	3.263	54.300	67.325	
		Modify	Tim	62.007 ^a	2.324	57.369	66.645
Sac2Key	i* 1.0	Abby	86.261 ^a	2.724	80.824	91.698	
		Modify	Tim	89.964 ^a	3.071	83.834	96.095
	iStar 2.0	Abby	29.750 ^a	2.722	24.317	35.183	
		Modify	Tim	29.054 ^a	1.938	25.186	32.923
AvAttention	i* 1.0	Abby	.625 ^a	.045	.534	.716	
		Modify	Tim	.755 ^a	.051	.653	.858
	iStar 2.0	Abby	.694 ^a	.045	.603	.784	
		Modify	Tim	.645 ^a	.032	.580	.709
AvMentWL	i* 1.0	Abby	.588 ^a	.048	.493	.683	
		Modify	Tim	.688 ^a	.054	.580	.795
	iStar 2.0	Abby	.662 ^a	.048	.568	.757	
		Modify	Tim	.651 ^a	.034	.584	.719
AvFam	i* 1.0	Abby	.566 ^a	.043	.481	.652	
		Modify	Tim	.491 ^a	.048	.395	.587
	iStar 2.0	Abby	.412 ^a	.043	.327	.498	
		Modify	Tim	.355 ^a	.030	.294	.416
AvSCL	i* 1.0	Abby	675.189 ^a	37.467	600.404	749.974	
		Modify	Tim	615.411 ^a	42.250	531.080	699.741
	iStar 2.0	Abby	787.125 ^a	37.439	712.396	861.854	
		Modify	Tim	785.194 ^a	26.661	731.979	838.409
HRVar_RMSSD	i* 1.0	Abby	24.647 ^a	4.902	14.862	34.432	
		Modify	Tim	39.509 ^a	5.528	28.475	50.543
	iStar 2.0	Abby	32.483 ^a	4.899	22.705	42.260	
		Modify	Tim	45.391 ^a	3.488	38.429	52.354
HRVar_NN50	i* 1.0	Abby	12.875 ^a	5.187	2.522	23.228	
		Modify	Tim	23.377 ^a	5.849	11.702	35.051
	iStar 2.0	Abby	18.472 ^a	5.183	8.127	28.818	
		Modify	Tim	31.572 ^a	3.691	24.205	38.939
NASA_MD	i* 1.0	Abby	81.278 ^a	3.886	73.522	89.033	
		Modify	Tim	79.018 ^a	4.382	70.272	87.763
	iStar 2.0	Abby	76.250 ^a	3.883	68.500	84.000	
		Modify	Tim	73.155 ^a	2.765	67.636	78.673
NASA_PD	i* 1.0	Abby	35.889 ^a	4.812	26.285	45.493	
		Modify	Tim	21.429 ^a	5.426	10.598	32.259
	iStar 2.0	Abby	34.375 ^a	4.808	24.778	43.972	
		Modify	Tim	21.948 ^a	3.424	15.114	28.783
NASA_TD	i* 1.0	Abby	63.194 ^a	6.014	51.190	75.199	
		Modify	Tim	29.196 ^a	6.782	15.659	42.734

	iStar 2.0 Modify	Abby	63.125 ^a	6.010	51.129	75.121
		Tim	40.155 ^a	4.280	31.612	48.697
NASA_Performance	i* 1.0 Modify	Abby	52.861 ^a	7.232	38.425	67.297
		Tim	23.839 ^a	8.156	7.561	40.118
	iStar 2.0 Modify	Abby	73.438 ^a	7.227	59.012	87.863
		Tim	41.236 ^a	5.146	30.964	51.508
NASA_Effort	i* 1.0 Modify	Abby	70.917 ^a	4.170	62.594	79.239
		Tim	70.625 ^a	4.702	61.240	80.010
	iStar 2.0 Modify	Abby	67.812 ^a	4.167	59.496	76.129
		Tim	68.351 ^a	2.967	62.429	74.273
NASA_Frustration	i* 1.0 Modify	Abby	74.611 ^a	6.549	61.540	87.682
		Tim	43.929 ^a	7.385	29.189	58.668
	iStar 2.0 Modify	Abby	75.938 ^a	6.544	62.876	88.999
		Tim	55.089 ^a	4.660	45.788	64.390
NASA_Score	i* 1.0 Modify	Abby	63.125 ^a	4.401	54.340	71.910
		Tim	44.673 ^a	4.963	34.766	54.579
	iStar 2.0 Modify	Abby	74.167 ^a	4.398	65.388	82.945
		Tim	57.680 ^a	3.132	51.429	63.932

a. Based on modified population marginal mean.

**Robust Tests of Equality of Means - i* concrete syntaxes,
GenderMag learning style facet, modification task**

		Statistic ^a	df1	df2	Sig.
Precision	Welch	.302	1	42.077	.586
Recall	Welch	.000	1	44.396	.990
FMeasure	Welch	.276	1	42.398	.602
Duration	Welch	14.042	1	30.855	.001
FirstActDet	Welch	14.347	1	72.591	.000
LastActDet	Welch	13.462	1	32.817	.001
ProcDur	Welch	.092	1	32.032	.763
FixRel	Welch	.367	1	42.894	.548
FixIrrel	Welch	2.361	1	49.179	.131
AvDurRelFix	Welch	2.140	1	30.212	.154
AvDurIrrelFix	Welch	4.322	1	40.230	.044
TotSac	Welch	.153	1	42.883	.698
Sac2Key	Welch	.593	1	46.172	.445
AvAttention	Welch	.293	1	40.604	.592
AvMentWL	Welch	4.256	1	60.510	.043
AvFam	Welch	1.713	1	50.243	.197
AvSCL	Welch	.001	1	43.899	.975
HRVar_RMSSD	Welch	3.985	1	49.472	.051
HRVar_NN50	Welch	4.212	1	48.948	.045
NASA_MD	Welch	.551	1	35.660	.463
NASA_PD	Welch	2.592	1	39.511	.115
NASA_TD	Welch	.636	1	40.428	.430
NASA_Performance	Welch	1.680	1	40.621	.202
NASA_Effort	Welch	.566	1	36.417	.457
NASA_Frustration	Welch	.197	1	37.611	.659
NASA_Score	Welch	.096	1	36.874	.758

a. Asymptotically F distributed.

ANOVA - i* concrete syntaxes, GenderMag learning style facet, modification task

		Sum of Squares	df	Mean Square	F	Sig.
Precision	Between Groups	.017	1	.017	.313	.577
	Within Groups	4.745	88	.054		
	Total	4.762	89			
Recall	Between Groups	.000	1	.000	.000	.990
	Within Groups	6.325	88	.072		
	Total	6.325	89			
FMeasure	Between Groups	.012	1	.012	.284	.596
	Within Groups	3.784	88	.043		
	Total	3.796	89			
Duration	Between Groups	4677907.945	1	4677907.945	21.631	.000
	Within Groups	19030672.055	88	216257.637		
	Total	23708580.000	89			
FirstActDet	Between Groups	684397.543	1	684397.543	9.272	.003
	Within Groups	6495619.446	88	73813.857		
	Total	7180016.989	89			
LastActDet	Between Groups	4287901.607	1	4287901.607	18.878	.000
	Within Groups	19988624.615	88	227143.462		
	Total	24276526.222	89			
ProcDur	Between Groups	8486.516	1	8486.516	.134	.715
	Within Groups	5564205.040	88	63229.603		
	Total	5572691.556	89			
FixRel	Between Groups	1.177	1	1.177	.373	.543
	Within Groups	277.793	88	3.157		
	Total	278.969	89			
FixIrrel	Between Groups	33.982	1	33.982	2.107	.150
	Within Groups	1418.974	88	16.125		
	Total	1452.956	89			
AvDurRelFix	Between Groups	247994.735	1	247994.735	3.413	.068
	Within Groups	6393642.242	88	72655.025		
	Total	6641636.977	89			
AvDurIrrelFix	Between Groups	589574.561	1	589574.561	4.700	.033
	Within Groups	11039889.460	88	125453.289		
	Total	11629464.021	89			
TotSac	Between Groups	92.598	1	92.598	.155	.694
	Within Groups	52460.025	88	596.137		
	Total	52552.622	89			
Sac2Key	Between Groups	508.654	1	508.654	.561	.456
	Within Groups	79843.446	88	907.312		
	Total	80352.100	89			
AvAttention	Between Groups	.013	1	.013	.315	.576
	Within Groups	3.532	88	.040		
	Total	3.545	89			
AvMentWL	Between Groups	.109	1	.109	3.189	.078
	Within Groups	2.995	88	.034		
	Total	3.104	89			
AvFam	Between Groups	.044	1	.044	1.500	.224
	Within Groups	2.600	88	.030		
	Total	2.645	89			
AvSCL	Between Groups	20.464	1	20.464	.001	.975
	Within Groups	1854888.825	88	21078.282		
	Total					

	Total	1854909.289	89			
HRVar_RMSSD	Between Groups	1505.252	1	1505.252	3.537	.063
	Within Groups	37447.880	88	425.544		
	Total	38953.132	89			
HRVar_NN50	Between Groups	1422.833	1	1422.833	3.775	.055
	Within Groups	33166.649	88	376.894		
	Total	34589.481	89			
NASA_MD	Between Groups	149.440	1	149.440	.690	.408
	Within Groups	19058.615	88	216.575		
	Total	19208.056	89			
NASA_PD	Between Groups	1457.504	1	1457.504	2.874	.094
	Within Groups	44621.385	88	507.061		
	Total	46078.889	89			
NASA_TD	Between Groups	397.543	1	397.543	.688	.409
	Within Groups	50863.846	88	577.998		
	Total	51261.389	89			
NASA_Performance	Between Groups	1462.500	1	1462.500	1.808	.182
	Within Groups	71190.000	88	808.977		
	Total	72652.500	89			
NASA_Effort	Between Groups	176.107	1	176.107	.690	.408
	Within Groups	22448.615	88	255.098		
	Total	22624.722	89			
NASA_Frustration	Between Groups	141.556	1	141.556	.232	.632
	Within Groups	53804.000	88	611.409		
	Total	53945.556	89			
NASA_Score	Between Groups	34.334	1	34.334	.115	.735
	Within Groups	26170.364	88	297.390		
	Total	26204.698	89			

Task * LearningStyle - i* concrete syntaxes, GenderMag learning style facet, modification task

Dependent Variable	Task	LearningStyle	Mean	Std. Error	95% Confidence Interval	
					Lower Bound	Upper Bound
Precision	i* 1.0 Modify	Abby	.472 ^a	.059	.355	.589
		Tim	.496 ^a	.041	.414	.578
	iStar 2.0 Modify	Abby	.612 ^a	.046	.520	.704
		Tim	.612 ^a	.032	.549	.675
Recall	i* 1.0 Modify	Abby	.532 ^a	.100	.332	.733
		Tim	.554 ^a	.070	.414	.694
	iStar 2.0 Modify	Abby	.684 ^a	.078	.528	.841
		Tim	.676 ^a	.054	.569	.784
FMeasure	i* 1.0 Modify	Abby	.426 ^a	.068	.289	.562
		Tim	.506 ^a	.048	.410	.601
	iStar 2.0 Modify	Abby	.611 ^a	.053	.504	.717
		Tim	.596 ^a	.037	.523	.669
Duration	i* 1.0 Modify	Abby	1288.717 ^a	131.031	1027.178	1550.256
		Tim	1100.550 ^a	91.605	917.705	1283.395
	iStar 2.0 Modify	Abby	1988.000 ^a	102.318	1783.772	2192.228
		Tim	1212.648 ^a	70.274	1072.381	1352.915
FirstActDet	i* 1.0 Modify	Abby	636.550 ^a	35.316	566.058	707.042
		Tim	597.653 ^a	24.690	548.371	646.935
	iStar 2.0 Modify	Abby	383.583 ^a	27.577	328.538	438.628
		Tim	101.909 ^a	18.941	64.103	139.714
LastActDet	i* 1.0 Modify	Abby	1258.433 ^a	109.042	1040.785	1476.081
		Tim	1069.675 ^a	76.232	917.515	1221.835
	iStar 2.0 Modify	Abby	1565.000 ^a	85.147	1395.045	1734.955
		Tim	867.467 ^a	58.481	750.739	984.195
ProcDur	i* 1.0 Modify	Abby	30.283 ^a	61.134	-91.740	152.307
		Tim	30.875 ^a	42.739	-54.433	116.183
	iStar 2.0 Modify	Abby	423.000 ^a	47.738	327.715	518.285
		Tim	345.181 ^a	32.787	279.738	410.624
FixRel	i* 1.0 Modify	Abby	5.017 ^a	.249	4.521	5.514
		Tim	5.012 ^a	.174	4.665	5.359
	iStar 2.0 Modify	Abby	1.550 ^a	.194	1.162	1.937
		Tim	1.663 ^a	.133	1.397	1.929
FixIrrel	i* 1.0 Modify	Abby	6.651 ^a	1.230	4.196	9.106
		Tim	5.214 ^a	.860	3.498	6.930
	iStar 2.0 Modify	Abby	2.404 ^a	.960	.488	4.321
		Tim	4.542 ^a	.660	3.226	5.859
AvDurRelFix	i* 1.0 Modify	Abby	380.429 ^a	85.530	209.711	551.148
		Tim	333.388 ^a	59.795	214.036	452.739
	iStar 2.0 Modify	Abby	654.849 ^a	66.788	521.540	788.158
		Tim	459.452 ^a	45.871	367.893	551.011
AvDurIrrelFix	i* 1.0 Modify	Abby	789.288 ^a	124.445	540.893	1037.682

		Tim	648.163 ^a	87.001	474.507	821.818
		iStar 2.0 Modify	Abby	812.657 ^a	97.176	618.694
		Tim	588.853 ^a	66.742	455.635	722.071
TotSac	i* 1.0 Modify	Abby	104.117 ^a	4.316	95.503	112.731
		Tim	105.481 ^a	3.017	99.459	111.503
	iStar 2.0 Modify	Abby	59.083 ^a	3.370	52.357	65.810
		Tim	62.578 ^a	2.315	57.958	67.197
Sac2Key	i* 1.0 Modify	Abby	83.683 ^a	3.600	76.498	90.869
		Tim	91.113 ^a	2.517	86.089	96.136
	iStar 2.0 Modify	Abby	30.750 ^a	2.811	25.139	36.361
		Tim	28.725 ^a	1.931	24.872	32.579
AvAttention	i* 1.0 Modify	Abby	.645 ^a	.060	.525	.765
		Tim	.727 ^a	.042	.643	.810
	iStar 2.0 Modify	Abby	.700 ^a	.047	.606	.794
		Tim	.649 ^a	.032	.585	.714
AvMentWL	i* 1.0 Modify	Abby	.562 ^a	.063	.436	.687
		Tim	.692 ^a	.044	.604	.779
	iStar 2.0 Modify	Abby	.658 ^a	.049	.560	.756
		Tim	.655 ^a	.034	.587	.722
AvFam	i* 1.0 Modify	Abby	.532 ^a	.056	.419	.644
		Tim	.522 ^a	.039	.443	.601
	iStar 2.0 Modify	Abby	.433 ^a	.044	.345	.521
		Tim	.354 ^a	.030	.294	.415
AvSCL	i* 1.0 Modify	Abby	710.117 ^a	49.518	611.278	808.956
		Tim	601.053 ^a	34.619	531.954	670.153
	iStar 2.0 Modify	Abby	801.167 ^a	38.667	723.986	878.347
		Tim	779.452 ^a	26.557	726.444	832.461
HRVar_RMSSD	i* 1.0 Modify	Abby	36.060 ^a	6.479	23.128	48.993
		Tim	30.518 ^a	4.530	21.477	39.559
	iStar 2.0 Modify	Abby	33.992 ^a	5.059	23.894	44.091
		Tim	42.900 ^a	3.475	35.965	49.836
HRVar_NN50	i* 1.0 Modify	Abby	18.819 ^a	6.855	5.136	32.502
		Tim	18.349 ^a	4.793	8.783	27.915
	iStar 2.0 Modify	Abby	17.774 ^a	5.353	7.090	28.459
		Tim	29.999 ^a	3.677	22.661	37.338
NASA_MD	i* 1.0 Modify	Abby	76.833 ^a	5.135	66.583	87.083
		Tim	82.078 ^a	3.590	74.912	89.244
	iStar 2.0 Modify	Abby	74.167 ^a	4.010	66.163	82.171
		Tim	74.490 ^a	2.754	68.992	79.987
NASA_PD	i* 1.0 Modify	Abby	26.417 ^a	6.359	13.723	39.110
		Tim	29.156 ^a	4.446	20.282	38.030
	iStar 2.0 Modify	Abby	37.500 ^a	4.966	27.588	47.412
		Tim	22.384 ^a	3.411	15.577	29.192
NASA_TD	i* 1.0 Modify	Abby	43.333 ^a	7.949	27.467	59.199
		Tim	45.859 ^a	5.557	34.767	56.952

	iStar 2.0 Modify	Abby	55.833 ^a	6.207	43.444	68.223
		Tim	46.561 ^a	4.263	38.052	55.070
NASA_Performance	i* 1.0 Modify	Abby	37.583 ^a	9.559	18.504	56.663
		Tim	37.016 ^a	6.683	23.677	50.354
	iStar 2.0 Modify	Abby	66.250 ^a	7.464	51.352	81.148
		Tim	48.917 ^a	5.126	38.684	59.149
NASA_Effort	i* 1.0 Modify	Abby	67.750 ^a	5.511	56.750	78.750
		Tim	72.641 ^a	3.853	64.951	80.331
	iStar 2.0 Modify	Abby	66.667 ^a	4.303	58.077	75.256
		Tim	68.765 ^a	2.956	62.866	74.665
NASA_Frustration	i* 1.0 Modify	Abby	55.583 ^a	8.655	38.308	72.859
		Tim	59.656 ^a	6.051	47.579	71.734
	iStar 2.0 Modify	Abby	69.583 ^a	6.758	56.094	83.073
		Tim	60.791 ^a	4.642	51.526	70.056
NASA_Score	i* 1.0 Modify	Abby	51.250 ^a	5.817	39.639	62.861
		Tim	54.401 ^a	4.067	46.284	62.518
	iStar 2.0 Modify	Abby	68.861 ^a	4.542	59.795	77.928
		Tim	62.309 ^a	3.120	56.082	68.537

a. Based on modified population marginal mean.