

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

		Statistic ^a	df1	df2	Sig.
Precision	Welch	.801	1	68.944	.374
Recall	Welch	.053	1	69.286	.818
FMeasure	Welch	.759	1	68.135	.387
Duration	Welch	4.120	1	57.053	.047
FirstActDet	Welch	26.102	1	43.004	.000
LastActDet	Welch	3.379	1	58.331	.071
ProcDur	Welch	17.952	1	45.932	.000
FixRel	Welch	.370	1	56.483	.546
FixIrrel	Welch	1.498	1	63.791	.226
AvDurRelFix	Welch	3.852	1	56.830	.055
AvDurIrrelFix	Welch	5.562	1	58.491	.022
TotSac	Welch	.428	1	62.561	.515
Sac2Key	Welch	.047	1	53.438	.829
AvAttention	Welch	1.204	1	52.471	.277
AvMentWL	Welch	1.864	1	59.094	.177
AvFam	Welch	3.719	1	49.838	.059
AvSCL	Welch	.308	1	54.218	.581
HRVar_RMSSD	Welch	7.512	1	72.558	.008
HRVar_NN50	Welch	1.543	1	57.940	.219
NASA_MD	Welch	5.143	1	45.624	.028
NASA_PD	Welch	10.520	1	40.784	.002
NASA_TD	Welch	5.811	1	53.463	.019
NASA_Performance	Welch	7.437	1	56.384	.009
NASA_Effort	Welch	4.243	1	45.885	.045
NASA_Frustration	Welch	5.591	1	55.799	.022
NASA_Score	Welch	2.608	1	58.946	.112

a. Asymptotically F distributed.

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

		Sum of Squares	df	Mean Square	F	Sig.
Precision	Between Groups	.045	1	.045	.682	.411
	Within Groups	5.092	78	.065		
	Total	5.136	79			
Recall	Between Groups	.003	1	.003	.045	.832
	Within Groups	5.833	78	.075		
	Total	5.837	79			
FMeasure	Between Groups	.034	1	.034	.652	.422
	Within Groups	4.019	78	.052		
	Total	4.053	79			
Duration	Between Groups	380786.786	1	380786.786	4.036	.048
	Within Groups	7359518.102	78	94352.796		
	Total	7740304.888	79			
FirstActDet	Between Groups	650122.200	1	650122.200	31.349	.000
	Within Groups	1617556.000	78	20737.897		
	Total	2267678.200	79			
LastActDet	Between Groups	300574.352	1	300574.352	3.259	.075
	Within Groups	7193147.198	78	92219.836		
	Total	7493721.550	79			
ProcDur	Between Groups	4737.930	1	4737.930	20.518	.000
	Within Groups	18011.058	78	230.911		
	Total	22748.988	79			
FixRel	Between Groups	1.052	1	1.052	.365	.548
	Within Groups	225.020	78	2.885		
	Total	226.072	79			
FixIrrel	Between Groups	25.990	1	25.990	1.354	.248
	Within Groups	1497.114	78	19.194		
	Total	1523.104	79			
AvDurRelFix	Between Groups	24527.897	1	24527.897	3.784	.055
	Within Groups	505588.659	78	6481.906		
	Total	530116.555	79			
AvDurIrrelFix	Between Groups	184692.384	1	184692.384	5.354	.023
	Within Groups	2690949.865	78	34499.357		
	Total	2875642.249	79			
TotSac	Between Groups	51.113	1	51.113	.393	.533
	Within Groups	10155.637	78	130.200		
	Total	10206.750	79			
Sac2Key	Between Groups	11.873	1	11.873	.048	.827
	Within Groups	19232.077	78	246.565		
	Total	19243.950	79			
AvAttention	Between Groups	.051	1	.051	1.251	.267
	Within Groups	3.157	78	.040		
	Total	3.208	79			
AvMentWL	Between Groups	.090	1	.090	1.781	.186
	Within Groups	3.942	78	.051		
	Total	4.032	79			
AvFam	Between Groups	.109	1	.109	4.007	.049
	Within Groups	2.126	78	.027		
	Total	2.235	79			
AvSCL	Between Groups	5608.805	1	5608.805	.312	.578
	Within Groups	1401087.945	78	17962.666		

	Total	1406696.750	79			
HRVar_RMSSD	Between Groups	2263.673	1	2263.673	6.099	.016
	Within Groups	28951.625	78	371.175		
	Total	31215.298	79			
HRVar_NN50	Between Groups	507.894	1	507.894	1.495	.225
	Within Groups	26495.536	78	339.686		
	Total	27003.430	79			
NASA_MD	Between Groups	774.811	1	774.811	5.908	.017
	Within Groups	10229.876	78	131.152		
	Total	11004.687	79			
NASA_PD	Between Groups	5077.802	1	5077.802	13.168	.001
	Within Groups	30077.198	78	385.605		
	Total	35155.000	79			
NASA_TD	Between Groups	2944.629	1	2944.629	5.957	.017
	Within Groups	38554.121	78	494.284		
	Total	41498.750	79			
NASA_Performance	Between Groups	5857.266	1	5857.266	7.346	.008
	Within Groups	62191.484	78	797.327		
	Total	68048.750	79			
NASA_Effort	Between Groups	982.916	1	982.916	4.853	.031
	Within Groups	15796.772	78	202.523		
	Total	16779.688	79			
NASA_Frustration	Between Groups	2806.374	1	2806.374	5.563	.021
	Within Groups	39348.626	78	504.470		
	Total	42155.000	79			
NASA_Score	Between Groups	572.794	1	572.794	2.496	.118
	Within Groups	17897.045	78	229.449		
	Total	18469.839	79			

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

Dependent Variable	Task	Motivation	Mean	Std. Error	95% Confidence Interval	
					Lower Bound	Upper Bound
Precision	i* 1.0 Understand	Abby	.724 ^a	.051	.622	.826
		Tim	.590 ^a	.034	.522	.659
	iStar 2.0 Understand	Abby	.771 ^a	.051	.669	.873
		Tim	.662 ^a	.043	.576	.747
Recall	i* 1.0 Understand	Abby	.720 ^a	.084	.552	.889
		Tim	.652 ^a	.057	.538	.766
	iStar 2.0 Understand	Abby	.747 ^a	.085	.578	.916
		Tim	.744 ^a	.071	.602	.886
FMeasure	i* 1.0 Understand	Abby	.713 ^a	.059	.594	.831
		Tim	.579 ^a	.040	.499	.659
	iStar 2.0 Understand	Abby	.728 ^a	.059	.609	.847
		Tim	.685 ^a	.050	.585	.785
Duration	i* 1.0 Understand	Abby	1126.389 ^a	65.099	996.078	1256.700
		Tim	1061.908 ^a	43.890	974.054	1149.763
	iStar 2.0 Understand	Abby	737.100 ^a	65.309	606.370	867.830
		Tim	662.661 ^a	54.711	553.146	772.177
FirstActDet	i* 1.0 Understand	Abby	550.852 ^a	36.101	478.588	623.116
		Tim	435.662 ^a	24.339	386.943	484.382
	iStar 2.0 Understand	Abby	586.856 ^a	36.217	514.359	659.352
		Tim	469.664 ^a	30.340	408.932	530.395
LastActDet	i* 1.0 Understand	Abby	1089.954 ^a	64.380	961.082	1218.825
		Tim	1037.346 ^a	43.405	950.462	1124.230
	iStar 2.0 Understand	Abby	702.256 ^a	64.588	572.969	831.542
		Tim	639.254 ^a	54.106	530.949	747.560
ProcDur	i* 1.0 Understand	Abby	36.435 ^a	2.479	31.472	41.398
		Tim	24.563 ^a	1.672	21.217	27.908
	iStar 2.0 Understand	Abby	34.844 ^a	2.487	29.866	39.823
		Tim	23.407 ^a	2.084	19.236	27.578
FixRel	i* 1.0 Understand	Abby	4.517 ^a	.212	4.092	4.942
		Tim	4.911 ^a	.143	4.624	5.198
	iStar 2.0 Understand	Abby	1.503 ^a	.213	1.077	1.930
		Tim	1.558 ^a	.178	1.201	1.915
FixIrrel	i* 1.0 Understand	Abby	4.381 ^a	1.160	2.058	6.703
		Tim	6.770 ^a	.782	5.204	8.336
	iStar 2.0 Understand	Abby	5.155 ^a	1.164	2.825	7.485
		Tim	2.588 ^a	.975	.636	4.539
AvDurRelFix	i* 1.0 Understand	Abby	291.597 ^a	16.275	259.020	324.175
		Tim	275.477 ^a	10.972	253.513	297.441
	iStar 2.0 Understand	Abby	184.275 ^a	16.327	151.592	216.958
		Tim	165.665 ^a	13.678	138.287	193.044
AvDurIrrelFix	i* 1.0 Understand	Abby	678.792 ^a	48.825	581.059	776.525
		Tim		32.917	564.540	696.322

			630.431 ^a			
		iStar 2.0 Understand	Abby	527.825 ^a	48.982	429.777
TotSac	i* 1.0 Understand	Tim	471.996 ^a	41.033	389.860	554.133
		Abby	92.509 ^a	3.429	85.645	99.374
	iStar 2.0 Understand	Tim	92.177 ^a	2.312	87.549	96.805
		Abby	85.489 ^a	3.440	78.602	92.376
Sac2Key	i* 1.0 Understand	Tim	86.988 ^a	2.882	81.218	92.757
		Abby	87.139 ^a	2.867	81.400	92.878
	iStar 2.0 Understand	Tim	59.653 ^a	2.410	54.830	64.477
		Abby	58.067 ^a	2.876	52.309	63.825
AvAttention	i* 1.0 Understand	Tim	.639 ^a	.034	.570	.707
		Abby	.656 ^a	.051	.554	.757
	iStar 2.0 Understand	Tim	.456 ^a	.043	.371	.541
		Abby	.529 ^a	.051	.427	.631
AvMentWL	i* 1.0 Understand	Tim	.638 ^a	.045	.549	.727
		Abby	.626 ^a	.066	.494	.758
	iStar 2.0 Understand	Tim	.499 ^a	.056	.387	.610
		Abby	.470 ^a	.066	.337	.603
AvFam	i* 1.0 Understand	Tim	.557 ^a	.033	.491	.623
		Abby	.649 ^a	.049	.551	.747
	iStar 2.0 Understand	Tim	.542 ^a	.041	.459	.624
		Abby	.517 ^a	.049	.418	.615
AvSCL	i* 1.0 Understand	Tim	640.394 ^a	28.422	583.501	697.286
		Abby	631.454 ^a	42.157	547.067	715.840
	iStar 2.0 Understand	Tim	677.765 ^a	35.429	606.845	748.684
		Abby	675.556 ^a	42.293	590.897	760.214
HRVar_RMSSD	i* 1.0 Understand	Tim	37.998 ^a	3.775	30.441	45.555
		Abby	34.032 ^a	5.600	22.823	45.241
	iStar 2.0 Understand	Tim	35.372 ^a	4.706	25.951	44.792
		Abby	31.893 ^a	5.618	20.648	43.138
HRVar_NN50	i* 1.0 Understand	Tim	22.380 ^a	3.639	15.095	29.664
		Abby	23.985 ^a	5.397	13.181	34.789
	iStar 2.0 Understand	Tim	21.340 ^a	4.536	12.260	30.420
		Abby	21.056 ^a	5.415	10.217	31.895
NASA_MD	i* 1.0 Understand	Tim	71.698 ^a	1.924	67.847	75.549
		Abby	74.537 ^a	2.854	68.824	80.250
	iStar 2.0 Understand	Tim	66.016 ^a	2.398	61.215	70.817
		Abby	59.444 ^a	2.863	53.714	65.175
NASA_PD	i* 1.0 Understand	Tim	13.781 ^a	3.578	6.620	20.943
		Abby	25.185 ^a	5.306	14.563	35.807
	iStar 2.0 Understand	Tim	22.958 ^a	4.460	14.031	31.885
		Abby	20.889 ^a	5.324	10.233	31.545
NASA_TD	i* 1.0 Understand	Tim	30.427 ^a	4.176	22.067	38.787
		Abby	48.704 ^a	6.195	36.304	61.103
	iStar 2.0	Tim				
		Abby	35.444 ^a	6.215	23.005	47.884

	Understand	Tim	33.245 ^a	5.206	22.824	43.666
NASA_Performance	i* 1.0 Understand	Abby	65.093 ^a	8.448	48.183	82.002
		Tim	41.094 ^a	5.695	29.693	52.494
	iStar 2.0 Understand	Abby	69.333 ^a	8.475	52.369	86.298
		Tim	57.682 ^a	7.100	43.471	71.894
NASA_Effort	i* 1.0 Understand	Abby	73.056 ^a	4.086	64.876	81.235
		Tim	69.052 ^a	2.755	63.538	74.567
	iStar 2.0 Understand	Abby	55.833 ^a	4.099	47.628	64.039
		Tim	64.932 ^a	3.434	58.058	71.806
NASA_Frustration	i* 1.0 Understand	Abby	64.815 ^a	6.650	51.503	78.127
		Tim	41.688 ^a	4.484	32.713	50.662
	iStar 2.0 Understand	Abby	54.167 ^a	6.672	40.812	67.522
		Tim	49.698 ^a	5.589	38.510	60.886
NASA_Score	i* 1.0 Understand	Abby	58.565 ^a	4.215	50.127	67.003
		Tim	44.623 ^a	2.842	38.934	50.312
	iStar 2.0 Understand	Abby	55.562 ^a	4.229	47.096	64.027
		Tim	54.560 ^a	3.543	47.469	61.651

a. Based on modified population marginal mean.

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

		Statistic ^a	df1	df2	Sig.
Precision	Welch	26.500	1	41.101	.000
Recall	Welch	4.625	1	36.368	.038
FMeasure	Welch	14.033	1	33.544	.001
Duration	Welch	8.275	1	65.402	.005
FirstActDet	Welch	20.937	1	45.466	.000
LastActDet	Welch	7.576	1	66.345	.008
ProcDur	Welch	9.569	1	58.905	.003
FixRel	Welch	.625	1	51.231	.433
FixIrrel	Welch	35.094	1	60.139	.000
AvDurRelFix	Welch	7.579	1	64.285	.008
AvDurIrrelFix	Welch	12.634	1	72.297	.001
TotSac	Welch	.382	1	58.727	.539
Sac2Key	Welch	.692	1	52.094	.409
AvAttention	Welch	38.022	1	50.987	.000
AvMentWL	Welch	15.750	1	68.936	.000
AvFam	Welch	6.712	1	54.033	.012
AvSCL	Welch	.539	1	50.633	.466
HRVar_RMSSD	Welch	4.814	1	73.788	.031
HRVar_NN50	Welch	.854	1	56.494	.359
NASA_MD	Welch	15.070	1	77.228	.000
NASA_PD	Welch	21.692	1	43.474	.000
NASA_TD	Welch	.373	1	73.937	.543
NASA_Performance	Welch	.003	1	50.925	.960
NASA_Effort	Welch	6.421	1	72.069	.013
NASA_Frustration	Welch	.830	1	48.761	.367
NASA_Score	Welch	.997	1	64.496	.322

a. Asymptotically F distributed.

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

		Sum of Squares	df	Mean Square	F	Sig.
Precision	Between Groups	1.526	1	1.526	32.969	.000
	Within Groups	3.610	78	.046		
	Total	5.136	79			
Recall	Between Groups	.441	1	.441	6.370	.014
	Within Groups	5.396	78	.069		
	Total	5.837	79			
FMeasure	Between Groups	.854	1	.854	20.809	.000
	Within Groups	3.199	78	.041		
	Total	4.053	79			
Duration	Between Groups	665999.473	1	665999.473	7.343	.008
	Within Groups	7074305.415	78	90696.223		
	Total	7740304.887	79			
FirstActDet	Between Groups	535474.464	1	535474.464	24.112	.000
	Within Groups	1732203.736	78	22207.740		
	Total	2267678.200	79			
LastActDet	Between Groups	588564.528	1	588564.528	6.648	.012
	Within Groups	6905157.022	78	88527.654		
	Total	7493721.550	79			
ProcDur	Between Groups	2392.023	1	2392.023	9.165	.003
	Within Groups	20356.964	78	260.987		
	Total	22748.988	79			
FixRel	Between Groups	1.897	1	1.897	.660	.419
	Within Groups	224.175	78	2.874		
	Total	226.072	79			
FixIrrel	Between Groups	311.204	1	311.204	20.030	.000
	Within Groups	1211.900	78	15.537		
	Total	1523.104	79			
AvDurRelFix	Between Groups	42586.931	1	42586.931	6.813	.011
	Within Groups	487529.624	78	6250.380		
	Total	530116.555	79			
AvDurIrrelFix	Between Groups	335258.394	1	335258.394	10.294	.002
	Within Groups	2540383.855	78	32569.024		
	Total	2875642.249	79			
TotSac	Between Groups	47.816	1	47.816	.367	.546
	Within Groups	10158.934	78	130.243		
	Total	10206.750	79			
Sac2Key	Between Groups	176.642	1	176.642	.723	.398
	Within Groups	19067.308	78	244.453		
	Total	19243.950	79			
AvAttention	Between Groups	1.093	1	1.093	40.306	.000
	Within Groups	2.115	78	.027		
	Total	3.208	79			
AvMentWL	Between Groups	.591	1	.591	13.400	.000
	Within Groups	3.441	78	.044		
	Total	4.032	79			
AvFam	Between Groups	.180	1	.180	6.831	.011
	Within Groups	2.055	78	.026		
	Total	2.236	79			
AvSCL	Between Groups	10277.816	1	10277.816	.574	.451

	Within Groups	1396418.934	78	17902.807		
	Total	1406696.750	79			
HRVar_RMSSD	Between Groups	1464.227	1	1464.227	3.839	.054
	Within Groups	29751.072	78	381.424		
	Total	31215.298	79			
HRVar_NN50	Between Groups	288.359	1	288.359	.842	.362
	Within Groups	26715.071	78	342.501		
	Total	27003.430	79			
NASA_MD	Between Groups	1384.701	1	1384.701	11.227	.001
	Within Groups	9619.986	78	123.333		
	Total	11004.687	79			
NASA_PD	Between Groups	8747.308	1	8747.308	25.837	.000
	Within Groups	26407.692	78	338.560		
	Total	35155.000	79			
NASA_TD	Between Groups	157.266	1	157.266	.297	.588
	Within Groups	41341.484	78	530.019		
	Total	41498.750	79			
NASA_Performance	Between Groups	2.321	1	2.321	.003	.959
	Within Groups	68046.429	78	872.390		
	Total	68048.750	79			
NASA_Effort	Between Groups	1057.778	1	1057.778	5.248	.025
	Within Groups	15721.909	78	201.563		
	Total	16779.687	79			
NASA_Frustration	Between Groups	485.495	1	485.495	.909	.343
	Within Groups	41669.505	78	534.224		
	Total	42155.000	79			
NASA_Score	Between Groups	209.359	1	209.359	.894	.347
	Within Groups	18260.481	78	234.109		
	Total	18469.839	79			

Task * InformationProcessing - i* concrete syntaxes, GenderMag information processing facet, understanding task						
Dependent Variable	Task	InformationProcessing	Mean	Std. Error	95% Confidence Interval	
					Lower Bound	Upper Bound
Precision	i* 1.0 Understand	Abby	.732 ^a	.034	.664	.801
		Tim	.346 ^a	.051	.244	.447
	iStar 2.0 Understand	Abby	.803 ^a	.040	.722	.884
		Tim	.558 ^a	.057	.444	.671
Recall	i* 1.0 Understand	Abby	.732 ^a	.057	.618	.845
		Tim	.509 ^a	.084	.340	.678
	iStar 2.0 Understand	Abby	.806 ^a	.067	.671	.940
		Tim	.672 ^a	.094	.483	.861
FMeasure	i* 1.0 Understand	Abby	.696 ^a	.040	.616	.775
		Tim	.402 ^a	.059	.283	.520
	iStar 2.0 Understand	Abby	.778 ^a	.047	.683	.872
		Tim	.599 ^a	.066	.467	.732
Duration	i* 1.0 Understand	Abby	1045.721 ^a	43.890	957.866	1133.575
		Tim	1169.556 ^a	65.099	1039.245	1299.866
	iStar 2.0 Understand	Abby	602.849 ^a	51.928	498.903	706.795
		Tim	779.100 ^a	72.905	633.164	925.036
FirstActDet	i* 1.0 Understand	Abby	440.600 ^a	24.339	391.880	489.320
		Tim	537.685 ^a	36.101	465.421	609.949
	iStar 2.0 Understand	Abby	432.174 ^a	28.797	374.530	489.817
		Tim	584.967 ^a	40.430	504.038	665.896
LastActDet	i* 1.0 Understand	Abby	1018.315 ^a	43.405	931.430	1105.199
		Tim	1140.704 ^a	64.380	1011.832	1269.575
	iStar 2.0 Understand	Abby	580.911 ^a	51.355	478.113	683.709
		Tim	747.067 ^a	72.100	602.743	891.391
ProcDur	i* 1.0 Understand	Abby	27.406 ^a	1.672	24.060	30.752
		Tim	28.852 ^a	2.479	23.889	33.815
	iStar 2.0 Understand	Abby	21.937 ^a	1.978	17.979	25.896
		Tim	32.033 ^a	2.777	26.475	37.591
FixRel	i* 1.0 Understand	Abby	4.904 ^a	.143	4.618	5.191
		Tim	4.535 ^a	.212	4.110	4.960
	iStar 2.0 Understand	Abby	1.780 ^a	.169	1.441	2.119
		Tim	1.259 ^a	.238	.783	1.735
FixIrrel	i* 1.0 Understand	Abby	7.288 ^a	.782	5.722	8.853
		Tim	3.001 ^a	1.160	.678	5.323
	iStar 2.0 Understand	Abby	5.142 ^a	.926	3.289	6.994
		Tim	1.063 ^a	1.299	-1.538	3.664
AvDurRelFix	i* 1.0 Understand	Abby	271.430 ^a	10.972	249.467	293.394
		Tim	302.389 ^a	16.275	269.811	334.967
	iStar 2.0 Understand	Abby	150.712 ^a	12.982	124.726	176.699
		Tim	194.775 ^a	18.226	158.291	231.259
AvDurlrrelFix	i* 1.0	Abby	618.291 ^a	32.917	552.400	684.182

	Understand	Tim	711.167 ^a	48.825	613.434	808.900
	iStar 2.0 Understand	Abby	427.136 ^a	38.946	349.177	505.096
		Tim	559.325 ^a	54.679	449.873	668.777
TotSac	i* 1.0 Understand	Abby	90.802 ^a	2.312	86.174	95.430
		Tim	96.176 ^a	3.429	89.311	103.041
	iStar 2.0 Understand	Abby	85.978 ^a	2.736	80.502	91.454
		Tim	87.300 ^a	3.841	79.612	94.988
Sac2Key	i* 1.0 Understand	Abby	83.827 ^a	1.933	79.958	87.697
		Tim	88.972 ^a	2.867	83.233	94.712
	iStar 2.0 Understand	Abby	59.238 ^a	2.287	54.659	63.816
		Tim	59.200 ^a	3.211	52.772	65.628
AvAttention	i* 1.0 Understand	Abby	.714 ^a	.034	.645	.782
		Tim	.456 ^a	.051	.354	.557
	iStar 2.0 Understand	Abby	.575 ^a	.040	.494	.656
		Tim	.357 ^a	.057	.243	.470
AvMentWL	i* 1.0 Understand	Abby	.672 ^a	.045	.583	.762
		Tim	.534 ^a	.066	.402	.666
	iStar 2.0 Understand	Abby	.586 ^a	.053	.480	.691
		Tim	.377 ^a	.074	.229	.525
AvFam	i* 1.0 Understand	Abby	.566 ^a	.033	.500	.633
		Tim	.624 ^a	.049	.526	.722
	iStar 2.0 Understand	Abby	.505 ^a	.039	.427	.584
		Tim	.570 ^a	.055	.460	.680
AvSCL	i* 1.0 Understand	Abby	648.706 ^a	28.422	591.814	705.599
		Tim	609.287 ^a	42.157	524.901	693.673
	iStar 2.0 Understand	Abby	684.936 ^a	33.628	617.623	752.249
		Tim	667.833 ^a	47.212	573.328	762.338
HRVar_RMSSD	i* 1.0 Understand	Abby	38.761 ^a	3.775	31.204	46.318
		Tim	31.995 ^a	5.600	20.787	43.204
	iStar 2.0 Understand	Abby	35.986 ^a	4.467	27.045	44.927
		Tim	32.548 ^a	6.271	19.995	45.101
HRVar_NN50	i* 1.0 Understand	Abby	23.920 ^a	3.639	16.636	31.205
		Tim	19.876 ^a	5.397	9.072	30.680
	iStar 2.0 Understand	Abby	21.166 ^a	4.305	12.547	29.784
		Tim	21.379 ^a	6.045	9.280	33.479
NASA_MD	i* 1.0 Understand	Abby	74.354 ^a	1.924	70.503	78.206
		Tim	67.454 ^a	2.854	61.741	73.166
	iStar 2.0 Understand	Abby	67.604 ^a	2.276	63.047	72.161
		Tim	60.167 ^a	3.196	53.769	66.564
NASA_PD	i* 1.0 Understand	Abby	12.687 ^a	3.578	5.526	19.849
		Tim	28.102 ^a	5.306	17.480	38.724
	iStar 2.0 Understand	Abby	11.056 ^a	4.233	2.583	19.528
		Tim	36.000 ^a	5.943	24.104	47.896
NASA_TD	i* 1.0 Understand	Abby	37.458 ^a	4.176	29.099	45.818
		Tim	29.954 ^a	6.195	17.554	42.353
	iStar 2.0	Abby	36.354 ^a	4.941	26.463	46.245

	Understand	Tim	30.833 ^a	6.937	16.947	44.720
NASA_Performance	i* 1.0 Understand	Abby	48.750 ^a	5.695	37.350	60.150
		Tim	44.676 ^a	8.448	27.766	61.586
	iStar 2.0 Understand	Abby	59.215 ^a	6.738	45.727	72.704
		Tim	62.833 ^a	9.461	43.896	81.771
NASA_Effort	i* 1.0 Understand	Abby	71.083 ^a	2.755	65.569	76.598
		Tim	67.639 ^a	4.086	59.460	75.818
	iStar 2.0 Understand	Abby	65.604 ^a	3.259	59.080	72.129
		Tim	58.667 ^a	4.576	49.507	67.827
NASA_Frustration	i* 1.0 Understand	Abby	51.062 ^a	4.484	42.088	60.037
		Tim	39.815 ^a	6.650	26.503	53.127
	iStar 2.0 Understand	Abby	53.625 ^a	5.305	43.006	64.244
		Tim	47.667 ^a	7.448	32.758	62.575
NASA_Score	i* 1.0 Understand	Abby	49.233 ^a	2.842	43.544	54.921
		Tim	46.273 ^a	4.215	37.835	54.711
	iStar 2.0 Understand	Abby	56.868 ^a	3.362	50.137	63.599
		Tim	52.391 ^a	4.721	42.942	61.841

a. Based on modified population marginal mean.

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

		Statistic ^a	df1	df2	Sig.
Precision	Welch	3.230	1	76.714	.076
Recall	Welch	.001	1	74.624	.970
FMeasure	Welch	.802	1	74.436	.373
Duration	Welch	3.679	1	74.986	.059
FirstActDet	Welch	15.474	1	60.576	.000
LastActDet	Welch	3.427	1	75.479	.068
ProcDur	Welch	3.093	1	68.666	.083
FixRel	Welch	.392	1	72.234	.533
FixIrrel	Welch	7.520	1	74.246	.008
AvDurRelFix	Welch	3.287	1	74.838	.074
AvDurIrrelFix	Welch	6.207	1	75.808	.015
TotSac	Welch	.034	1	77.711	.854
Sac2Key	Welch	.333	1	76.218	.566
AvAttention	Welch	4.275	1	66.052	.043
AvMentWL	Welch	5.743	1	76.649	.019
AvFam	Welch	1.834	1	71.173	.180
AvSCL	Welch	.007	1	76.327	.936
HRVar_RMSSD	Welch	3.147	1	77.988	.080
HRVar_NN50	Welch	2.740	1	76.813	.102
NASA_MD	Welch	17.040	1	77.994	.000
NASA_PD	Welch	8.926	1	63.361	.004
NASA_TD	Welch	.173	1	76.661	.678
NASA_Performance	Welch	.005	1	74.499	.943
NASA_Effort	Welch	7.715	1	76.986	.007
NASA_Frustration	Welch	1.566	1	70.979	.215
NASA_Score	Welch	1.030	1	77.614	.313

a. Asymptotically F distributed.

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

		Sum of Squares	df	Mean Square	F	Sig.
Precision	Between Groups	.198	1	.198	3.130	.081
	Within Groups	4.938	78	.063		
	Total	5.136	79			
Recall	Between Groups	.000	1	.000	.001	.971
	Within Groups	5.836	78	.075		
	Total	5.837	79			
FMeasure	Between Groups	.041	1	.041	.795	.375
	Within Groups	4.012	78	.051		
	Total	4.053	79			
Duration	Between Groups	344075.288	1	344075.288	3.629	.060
	Within Groups	7396229.600	78	94823.456		
	Total	7740304.888	79			
FirstActDet	Between Groups	399289.603	1	399289.603	16.669	.000
	Within Groups	1868388.597	78	23953.700		
	Total	2267678.200	79			
LastActDet	Between Groups	309918.350	1	309918.350	3.365	.070
	Within Groups	7183803.200	78	92100.041		
	Total	7493721.550	79			
ProcDur	Between Groups	892.588	1	892.588	3.185	.078
	Within Groups	21856.400	78	280.210		
	Total	22748.987	79			
FixRel	Between Groups	1.138	1	1.138	.394	.532
	Within Groups	224.934	78	2.884		
	Total	226.072	79			
FixIrrel	Between Groups	120.473	1	120.473	6.699	.011
	Within Groups	1402.631	78	17.982		
	Total	1523.104	79			
AvDurRelFix	Between Groups	21175.475	1	21175.475	3.245	.075
	Within Groups	508941.080	78	6524.886		
	Total	530116.555	79			
AvDurIrrelFix	Between Groups	207774.956	1	207774.956	6.075	.016
	Within Groups	2667867.293	78	34203.427		
	Total	2875642.249	79			
TotSac	Between Groups	4.229	1	4.229	.032	.858
	Within Groups	10202.521	78	130.802		
	Total	10206.750	79			
Sac2Key	Between Groups	79.753	1	79.753	.325	.570
	Within Groups	19164.197	78	245.695		
	Total	19243.950	79			
AvAttention	Between Groups	.174	1	.174	4.469	.038
	Within Groups	3.034	78	.039		
	Total	3.208	79			
AvMentWL	Between Groups	.269	1	.269	5.569	.021
	Within Groups	3.763	78	.048		
	Total	4.032	79			
AvFam	Between Groups	.052	1	.052	1.860	.177
	Within Groups	2.183	78	.028		
	Total	2.235	79			
AvSCL	Between Groups	115.207	1	115.207	.006	.936
	Within Groups	1406581.543	78	18033.097		

	Total	1406696.750	79			
HRVar_RMSSD	Between Groups	1135.915	1	1135.915	2.946	.090
	Within Groups	30079.383	78	385.633		
	Total	31215.298	79			
HRVar_NN50	Between Groups	887.679	1	887.679	2.651	.108
	Within Groups	26115.751	78	334.817		
	Total	27003.430	79			
NASA_MD	Between Groups	1876.116	1	1876.116	16.031	.000
	Within Groups	9128.571	78	117.033		
	Total	11004.687	79			
NASA_PD	Between Groups	3806.429	1	3806.429	9.471	.003
	Within Groups	31348.571	78	401.905		
	Total	35155.000	79			
NASA_TD	Between Groups	83.829	1	83.829	.158	.692
	Within Groups	41414.921	78	530.961		
	Total	41498.750	79			
NASA_Performance	Between Groups	4.464	1	4.464	.005	.943
	Within Groups	68044.286	78	872.363		
	Total	68048.750	79			
NASA_Effort	Between Groups	1462.545	1	1462.545	7.448	.008
	Within Groups	15317.143	78	196.374		
	Total	16779.687	79			
NASA_Frustration	Between Groups	841.984	1	841.984	1.590	.211
	Within Groups	41313.016	78	529.654		
	Total	42155.000	79			
NASA_Score	Between Groups	229.984	1	229.984	.983	.324
	Within Groups	18239.855	78	233.844		
	Total	18469.839	79			

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

Dependent Variable	Task	SelfEfficacy	Mean	Std. Error	95% Confidence Interval	
					Lower Bound	Upper Bound
Precision	i* 1.0 Understand	Abby	.695 ^a	.036	.623	.767
		Tim	.508 ^a	.046	.415	.601
	iStar 2.0 Understand	Abby	.719 ^a	.045	.629	.808
		Tim	.669 ^a	.050	.569	.769
Recall	i* 1.0 Understand	Abby	.653 ^a	.060	.533	.773
		Tim	.702 ^a	.077	.548	.857
	iStar 2.0 Understand	Abby	.754 ^a	.074	.605	.903
		Tim	.737 ^a	.083	.571	.903
FMeasure	i* 1.0 Understand	Abby	.635 ^a	.042	.550	.719
		Tim	.582 ^a	.054	.473	.690
	iStar 2.0 Understand	Abby	.719 ^a	.052	.614	.823
		Tim	.678 ^a	.058	.562	.795
Duration	i* 1.0 Understand	Abby	1050.133 ^a	46.253	957.548	1142.719
		Tim	1130.875 ^a	59.475	1011.822	1249.928
	iStar 2.0 Understand	Abby	635.485 ^a	57.380	520.626	750.344
		Tim	722.528 ^a	64.041	594.336	850.719
FirstActDet	i* 1.0 Understand	Abby	425.067 ^a	25.650	373.723	476.410
		Tim	540.597 ^a	32.982	474.576	606.618
	iStar 2.0 Understand	Abby	493.508 ^a	31.820	429.813	557.203
		Tim	508.389 ^a	35.514	437.300	579.478
LastActDet	i* 1.0 Understand	Abby	1020.455 ^a	45.742	928.892	1112.017
		Tim	1106.361 ^a	58.818	988.623	1224.099
	iStar 2.0 Understand	Abby	612.393 ^a	56.746	498.803	725.983
		Tim	693.139 ^a	63.333	566.363	819.915
ProcDur	i* 1.0 Understand	Abby	29.679 ^a	1.762	26.153	33.205
		Tim	24.514 ^a	2.265	19.980	29.048
	iStar 2.0 Understand	Abby	23.092 ^a	2.185	18.717	27.466
		Tim	29.389 ^a	2.439	24.507	34.271
FixRel	i* 1.0 Understand	Abby	4.834 ^a	.151	4.532	5.136
		Tim	4.751 ^a	.194	4.363	5.139
	iStar 2.0 Understand	Abby	1.577 ^a	.187	1.202	1.952
		Tim	1.514 ^a	.209	1.096	1.932
FixIrrel	i* 1.0 Understand	Abby	7.016 ^a	.824	5.366	8.667
		Tim	4.547 ^a	1.060	2.425	6.669
	iStar 2.0 Understand	Abby	3.885 ^a	1.023	1.838	5.932
		Tim	2.790 ^a	1.141	.505	5.074
AvDurRelFix	i* 1.0 Understand	Abby	272.533 ^a	11.563	249.387	295.680
		Tim	292.719 ^a	14.869	262.956	322.482
	iStar 2.0 Understand	Abby	158.871 ^a	14.345	130.157	187.586
		Tim	180.632 ^a	16.010	148.584	212.680
AvDurIrrelFix	i* 1.0 Understand	Abby	621.600 ^a	34.690	552.161	691.039
		Tim		44.606	592.867	771.446

			682.156 ^a			
	iStar 2.0 Understand	Abby	451.614 ^a	43.035	365.470	537.758
		Tim	516.896 ^a	48.031	420.752	613.040
	i* 1.0 Understand	Abby	91.405 ^a	2.437	86.527	96.282
		Tim	93.778 ^a	3.133	87.506	100.049
	iStar 2.0 Understand	Abby	87.707 ^a	3.023	81.656	93.757
		Tim	85.639 ^a	3.374	78.886	92.392
Sac2Key	i* 1.0 Understand	Abby	84.695 ^a	2.037	80.617	88.773
		Tim	86.167 ^a	2.620	80.923	91.410
	iStar 2.0 Understand	Abby	60.685 ^a	2.527	55.626	65.744
		Tim	58.000 ^a	2.821	52.354	63.646
AvAttention	i* 1.0 Understand	Abby	.675 ^a	.036	.603	.747
		Tim	.588 ^a	.046	.495	.680
	iStar 2.0 Understand	Abby	.477 ^a	.045	.387	.566
		Tim	.475 ^a	.050	.375	.575
AvMentWL	i* 1.0 Understand	Abby	.658 ^a	.047	.564	.752
		Tim	.594 ^a	.060	.474	.715
	iStar 2.0 Understand	Abby	.520 ^a	.058	.403	.636
		Tim	.467 ^a	.065	.337	.597
AvFam	i* 1.0 Understand	Abby	.578 ^a	.035	.508	.648
		Tim	.589 ^a	.045	.499	.679
	iStar 2.0 Understand	Abby	.507 ^a	.043	.420	.593
		Tim	.558 ^a	.048	.462	.655
AvSCL	i* 1.0 Understand	Abby	631.462 ^a	29.952	571.506	691.418
		Tim	649.319 ^a	38.515	572.223	726.415
	iStar 2.0 Understand	Abby	682.290 ^a	37.158	607.910	756.670
		Tim	672.889 ^a	41.471	589.875	755.903
HRVar_RMSSD	i* 1.0 Understand	Abby	39.029 ^a	3.979	31.065	46.993
		Tim	33.218 ^a	5.116	22.978	43.459
	iStar 2.0 Understand	Abby	38.224 ^a	4.936	28.344	48.104
		Tim	31.256 ^a	5.509	20.229	42.282
HRVar_NN50	i* 1.0 Understand	Abby	26.267 ^a	3.835	18.591	33.943
		Tim	16.781 ^a	4.931	6.910	26.651
	iStar 2.0 Understand	Abby	27.063 ^a	4.757	17.540	36.586
		Tim	16.429 ^a	5.310	5.800	27.057
NASA_MD	i* 1.0 Understand	Abby	76.226 ^a	2.028	72.167	80.285
		Tim	65.903 ^a	2.607	60.684	71.122
	iStar 2.0 Understand	Abby	67.125 ^a	2.515	62.090	72.160
		Tim	61.806 ^a	2.807	56.186	67.425
NASA_PD	i* 1.0 Understand	Abby	12.298 ^a	3.770	4.751	19.844
		Tim	24.931 ^a	4.848	15.226	34.635
	iStar 2.0 Understand	Abby	23.267 ^a	4.677	13.904	32.629
		Tim	21.667 ^a	5.220	11.217	32.116
NASA_TD	i* 1.0 Understand	Abby	37.155 ^a	4.401	28.345	45.965
		Tim	32.361 ^a	5.659	21.033	43.690
	iStar 2.0	Abby	33.292 ^a	5.460	22.362	44.221

	Understand	Tim	34.306 ^a	6.094	22.107	46.504
NASA_Performance	i* 1.0 Understand	Abby	48.036 ^a	6.002	36.021	60.050
		Tim	46.944 ^a	7.718	31.496	62.393
	iStar 2.0 Understand	Abby	67.558 ^a	7.446	52.654	82.463
		Tim	55.278 ^a	8.310	38.643	71.913
NASA_Effort	i* 1.0 Understand	Abby	72.488 ^a	2.903	66.677	78.299
		Tim	66.042 ^a	3.733	58.569	73.514
	iStar 2.0 Understand	Abby	64.392 ^a	3.602	57.182	71.601
		Tim	60.833 ^a	4.020	52.787	68.880
NASA_Frustration	i* 1.0 Understand	Abby	52.405 ^a	4.725	42.947	61.863
		Tim	40.278 ^a	6.076	28.116	52.440
	iStar 2.0 Understand	Abby	55.017 ^a	5.862	43.283	66.750
		Tim	47.500 ^a	6.542	34.404	60.596
NASA_Score	i* 1.0 Understand	Abby	49.768 ^a	2.995	43.773	55.763
		Tim	46.076 ^a	3.851	38.367	53.785
	iStar 2.0 Understand	Abby	58.630 ^a	3.715	51.193	66.068
		Tim	51.669 ^a	4.147	43.368	59.970

a. Based on modified population marginal mean.

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

		Statistic ^a	df1	df2	Sig.
Precision	Welch	14.628	1	72.534	.000
Recall	Welch	.261	1	77.983	.611
FMeasure	Welch	3.314	1	77.546	.073
Duration	Welch	1.993	1	63.686	.163
FirstActDet	Welch	7.660	1	42.061	.008
LastActDet	Welch	.997	1	63.756	.322
ProcDur	Welch	243.946	1	44.054	.000
FixRel	Welch	.350	1	67.492	.556
FixIrrel	Welch	1.165	1	49.319	.286
AvDurRelFix	Welch	1.936	1	64.115	.169
AvDurIrrelFix	Welch	2.183	1	61.251	.145
TotSac	Welch	.693	1	77.985	.408
Sac2Key	Welch	.030	1	74.379	.863
AvAttention	Welch	2.618	1	70.974	.110
AvMentWL	Welch	4.175	1	70.674	.045
AvFam	Welch	4.839	1	67.998	.031
AvSCL	Welch	.186	1	69.812	.668
HRVar_RMSSD	Welch	43.931	1	61.525	.000
HRVar_NN50	Welch	16.448	1	77.508	.000
NASA_MD	Welch	.186	1	52.031	.668
NASA_PD	Welch	18.414	1	44.861	.000
NASA_TD	Welch	19.846	1	47.560	.000
NASA_Performance	Welch	20.554	1	68.243	.000
NASA_Effort	Welch	3.389	1	57.260	.071
NASA_Frustration	Welch	16.015	1	63.576	.000
NASA_Score	Welch	12.856	1	53.387	.001

a. Asymptotically F distributed.

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

		Sum of Squares	df	Mean Square	F	Sig.
Precision	Between Groups	.791	1	.791	14.190	.000
	Within Groups	4.346	78	.056		
	Total	5.136	79			
Recall	Between Groups	.017	1	.017	.230	.633
	Within Groups	5.819	78	.075		
	Total	5.837	79			
FMeasure	Between Groups	.150	1	.150	3.007	.087
	Within Groups	3.903	78	.050		
	Total	4.053	79			
Duration	Between Groups	200859.294	1	200859.294	2.078	.153
	Within Groups	7539445.594	78	96659.559		
	Total	7740304.887	79			
FirstActDet	Between Groups	248749.741	1	248749.741	9.610	.003
	Within Groups	2018928.459	78	25883.698		
	Total	2267678.200	79			
LastActDet	Between Groups	98481.091	1	98481.091	1.039	.311
	Within Groups	7395240.459	78	94810.775		
	Total	7493721.550	79			
ProcDur	Between Groups	18051.619	1	18051.619	299.748	.000
	Within Groups	4697.368	78	60.223		
	Total	22748.987	79			
FixRel	Between Groups	1.023	1	1.023	.355	.553
	Within Groups	225.049	78	2.885		
	Total	226.072	79			
FixIrrel	Between Groups	26.141	1	26.141	1.362	.247
	Within Groups	1496.963	78	19.192		
	Total	1523.104	79			
AvDurRelFix	Between Groups	13328.701	1	13328.701	2.012	.160
	Within Groups	516787.854	78	6625.485		
	Total	530116.555	79			
AvDurIrrelFix	Between Groups	82999.239	1	82999.239	2.318	.132
	Within Groups	2792643.010	78	35803.116		
	Total	2875642.249	79			
TotSac	Between Groups	79.969	1	79.969	.616	.435
	Within Groups	10126.781	78	129.831		
	Total	10206.750	79			
Sac2Key	Between Groups	7.031	1	7.031	.029	.866
	Within Groups	19236.919	78	246.627		
	Total	19243.950	79			
AvAttention	Between Groups	.103	1	.103	2.576	.113
	Within Groups	3.105	78	.040		
	Total	3.208	79			
AvMentWL	Between Groups	.202	1	.202	4.118	.046
	Within Groups	3.830	78	.049		
	Total	4.032	79			
AvFam	Between Groups	.132	1	.132	4.880	.030
	Within Groups	2.104	78	.027		
	Total	2.235	79			
AvSCL	Between Groups	3324.437	1	3324.437	.185	.668
	Within Groups	1403372.313	78	17991.953		

	Total	1406696.750	79			
HRVar_RMSSD	Between Groups	9356.564	1	9356.564	33.388	.000
	Within Groups	21858.734	78	280.240		
	Total	31215.298	79			
HRVar_NN50	Between Groups	4340.734	1	4340.734	14.940	.000
	Within Groups	22662.696	78	290.547		
	Total	27003.430	79			
NASA_MD	Between Groups	29.865	1	29.865	.212	.646
	Within Groups	10974.823	78	140.703		
	Total	11004.688	79			
NASA_PD	Between Groups	7855.322	1	7855.322	22.444	.000
	Within Groups	27299.678	78	349.996		
	Total	35155.000	79			
NASA_TD	Between Groups	9631.568	1	9631.568	23.575	.000
	Within Groups	31867.182	78	408.554		
	Total	41498.750	79			
NASA_Performance	Between Groups	14264.063	1	14264.063	20.686	.000
	Within Groups	53784.687	78	689.547		
	Total	68048.750	79			
NASA_Effort	Between Groups	762.215	1	762.215	3.712	.058
	Within Groups	16017.473	78	205.352		
	Total	16779.688	79			
NASA_Frustration	Between Groups	7438.301	1	7438.301	16.712	.000
	Within Groups	34716.699	78	445.086		
	Total	42155.000	79			
NASA_Score	Between Groups	2898.711	1	2898.711	14.520	.000
	Within Groups	15571.128	78	199.630		
	Total	18469.839	79			

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

Dependent Variable	Task	Risk	Mean	Std. Error	95% Confidence Interval	
					Lower Bound	Upper Bound
Precision	i* 1.0 Understand	Abby	.861 ^a	.045	.772	.951
		Tim	.493 ^a	.037	.419	.566
	iStar 2.0 Understand	Abby	.826 ^a	.056	.715	.937
		Tim	.580 ^a	.042	.496	.663
Recall	i* 1.0 Understand	Abby	.633 ^a	.074	.484	.782
		Tim	.693 ^a	.061	.571	.815
	iStar 2.0 Understand	Abby	.757 ^a	.092	.572	.941
		Tim	.735 ^a	.069	.596	.874
FMeasure	i* 1.0 Understand	Abby	.702 ^a	.052	.597	.806
		Tim	.566 ^a	.043	.480	.652
	iStar 2.0 Understand	Abby	.775 ^a	.065	.645	.904
		Tim	.632 ^a	.049	.534	.729
Duration	i* 1.0 Understand	Abby	1069.417 ^a	57.503	954.312	1184.522
		Tim	1085.252 ^a	47.060	991.051	1179.454
	iStar 2.0 Understand	Abby	750.700 ^a	71.267	608.044	893.356
		Tim	626.515 ^a	53.485	519.454	733.576
FirstActDet	i* 1.0 Understand	Abby	472.264 ^a	31.888	408.432	536.095
		Tim	464.114 ^a	26.097	411.875	516.354
	iStar 2.0 Understand	Abby	601.153 ^a	39.521	522.043	680.263
		Tim	418.685 ^a	29.660	359.314	478.056
LastActDet	i* 1.0 Understand	Abby	1022.132 ^a	56.868	908.298	1135.966
		Tim	1068.586 ^a	46.540	975.425	1161.746
	iStar 2.0 Understand	Abby	707.073 ^a	70.480	565.993	848.154
		Tim	614.239 ^a	52.894	508.360	720.118
ProcDur	i* 1.0 Understand	Abby	47.285 ^a	2.190	42.901	51.668
		Tim	16.667 ^a	1.792	13.079	20.254
	iStar 2.0 Understand	Abby	43.627 ^a	2.714	38.194	49.060
		Tim	12.276 ^a	2.037	8.199	16.354
FixRel	i* 1.0 Understand	Abby	4.629 ^a	.188	4.253	5.004
		Tim	4.904 ^a	.153	4.596	5.211
	iStar 2.0 Understand	Abby	1.300 ^a	.232	.834	1.765
		Tim	1.746 ^a	.174	1.396	2.095
FixIrrel	i* 1.0 Understand	Abby	8.728 ^a	1.025	6.676	10.779
		Tim	4.627 ^a	.839	2.949	6.306
	iStar 2.0 Understand	Abby	3.930 ^a	1.270	1.387	6.472
		Tim	2.752 ^a	.953	.844	4.660
AvDurRelFix	i* 1.0 Understand	Abby	277.354 ^a	14.376	248.578	306.130
		Tim	281.313 ^a	11.765	257.763	304.863
	iStar 2.0 Understand	Abby	187.675 ^a	17.817	152.011	223.339
		Tim	156.629 ^a	13.371	129.864	183.394
AvDurIrrelFix	i* 1.0 Understand	Abby	636.062 ^a	43.127	549.734	722.391
		Tim		35.295	577.288	718.590

			647.939 ^a			
	iStar 2.0 Understand	Abby	538.025 ^a	53.450	431.033	645.017
		Tim	444.886 ^a	40.113	364.591	525.182
TotSac	i* 1.0 Understand	Abby	89.257 ^a	3.029	83.193	95.321
		Tim	93.988 ^a	2.479	89.026	98.951
	iStar 2.0 Understand	Abby	87.213 ^a	3.754	79.698	94.728
		Tim	86.050 ^a	2.818	80.410	91.690
Sac2Key	i* 1.0 Understand	Abby	82.188 ^a	2.533	77.118	87.257
		Tim	86.969 ^a	2.073	82.820	91.118
	iStar 2.0 Understand	Abby	57.520 ^a	3.139	51.237	63.803
		Tim	60.638 ^a	2.356	55.922	65.353
AvAttention	i* 1.0 Understand	Abby	.642 ^a	.045	.552	.731
		Tim	.644 ^a	.037	.571	.718
	iStar 2.0 Understand	Abby	.465 ^a	.055	.354	.576
		Tim	.485 ^a	.042	.401	.568
AvMentWL	i* 1.0 Understand	Abby	.615 ^a	.058	.498	.732
		Tim	.646 ^a	.048	.550	.742
	iStar 2.0 Understand	Abby	.406 ^a	.072	.261	.551
		Tim	.561 ^a	.054	.453	.670
AvFam	i* 1.0 Understand	Abby	.616 ^a	.043	.529	.703
		Tim	.563 ^a	.035	.492	.634
	iStar 2.0 Understand	Abby	.574 ^a	.054	.466	.682
		Tim	.502 ^a	.040	.421	.583
AvSCL	i* 1.0 Understand	Abby	648.299 ^a	37.238	573.759	722.838
		Tim	632.045 ^a	30.475	571.043	693.048
	iStar 2.0 Understand	Abby	681.373 ^a	46.151	588.992	773.754
		Tim	673.653 ^a	34.636	604.322	742.983
HRVar_RMSSD	i* 1.0 Understand	Abby	22.711 ^a	4.946	12.810	32.612
		Tim	45.033 ^a	4.048	36.931	53.136
	iStar 2.0 Understand	Abby	26.346 ^a	6.130	14.075	38.617
		Tim	41.154 ^a	4.601	31.945	50.363
HRVar_NN50	i* 1.0 Understand	Abby	11.806 ^a	4.768	2.263	21.350
		Tim	29.109 ^a	3.902	21.299	36.920
	iStar 2.0 Understand	Abby	17.768 ^a	5.909	5.941	29.596
		Tim	24.175 ^a	4.434	15.298	33.051
NASA_MD	i* 1.0 Understand	Abby	73.611 ^a	2.521	68.565	78.657
		Tim	71.821 ^a	2.063	67.692	75.951
	iStar 2.0 Understand	Abby	61.667 ^a	3.124	55.413	67.920
		Tim	66.354 ^a	2.345	61.661	71.047
NASA_PD	i* 1.0 Understand	Abby	25.347 ^a	4.687	15.965	34.730
		Tim	12.060 ^a	3.836	4.381	19.738
	iStar 2.0 Understand	Abby	34.733 ^a	5.809	23.105	46.362
		Tim	12.111 ^a	4.360	3.384	20.838
NASA_TD	i* 1.0 Understand	Abby	48.819 ^a	5.472	37.867	59.772
		Tim	27.750 ^a	4.478	18.786	36.714
	iStar 2.0	Abby	44.067 ^a	6.781	30.492	57.641

	Understand	Tim	25.326 ^a	5.089	15.139	35.514
NASA_Performance	i* 1.0 Understand	Abby	67.569 ^a	7.462	52.633	82.506
		Tim	36.250 ^a	6.107	24.026	48.474
	iStar 2.0 Understand	Abby	79.000 ^a	9.248	60.488	97.512
		Tim	45.743 ^a	6.940	31.850	59.636
NASA_Effort	i* 1.0 Understand	Abby	66.875 ^a	3.609	59.650	74.100
		Tim	72.012 ^a	2.954	66.099	77.925
	iStar 2.0 Understand	Abby	56.100 ^a	4.473	47.146	65.054
		Tim	67.743 ^a	3.357	61.023	74.463
NASA_Frustration	i* 1.0 Understand	Abby	61.944 ^a	5.874	50.186	73.703
		Tim	40.024 ^a	4.807	30.401	49.647
	iStar 2.0 Understand	Abby	62.100 ^a	7.280	47.527	76.673
		Tim	41.597 ^a	5.464	30.660	52.534
NASA_Score	i* 1.0 Understand	Abby	57.361 ^a	3.723	49.908	64.814
		Tim	43.319 ^a	3.047	37.220	49.419
	iStar 2.0 Understand	Abby	61.365 ^a	4.615	52.128	70.602
		Tim	49.390 ^a	3.463	42.458	56.323

a. Based on modified population marginal mean.

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

		Statistic ^a	df1	df2	Sig.
Precision	Welch	3.955	1	76.067	.050
Recall	Welch	.181	1	74.822	.672
FMeasure	Welch	1.656	1	73.515	.202
Duration	Welch	19.222	1	77.991	.000
FirstActDet	Welch	11.770	1	70.760	.001
LastActDet	Welch	18.068	1	77.994	.000
ProcDur	Welch	9.871	1	75.725	.002
FixRel	Welch	12.176	1	74.038	.001
FixIrrel	Welch	.906	1	77.918	.344
AvDurRelFix	Welch	20.074	1	77.977	.000
AvDurIrrelFix	Welch	13.133	1	77.958	.001
TotSac	Welch	1.807	1	77.757	.183
Sac2Key	Welch	12.129	1	77.903	.001
AvAttention	Welch	3.064	1	76.000	.084
AvMentWL	Welch	4.059	1	77.779	.047
AvFam	Welch	4.038	1	76.339	.048
AvSCL	Welch	.193	1	77.413	.662
HRVar_RMSSD	Welch	2.433	1	77.996	.123
HRVar_NN50	Welch	.390	1	77.373	.534
NASA_MD	Welch	.000	1	77.141	.991
NASA_PD	Welch	8.539	1	68.090	.005
NASA_TD	Welch	1.097	1	74.616	.298
NASA_Performance	Welch	.002	1	75.829	.968
NASA_Effort	Welch	.203	1	77.837	.654
NASA_Frustration	Welch	.017	1	71.717	.898
NASA_Score	Welch	.318	1	75.974	.574

a. Asymptotically F distributed.

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

		Sum of Squares	df	Mean Square	F	Sig.
Precision	Between Groups	.249	1	.249	3.979	.050
	Within Groups	4.887	78	.063		
	Total	5.136	79			
Recall	Between Groups	.014	1	.014	.183	.670
	Within Groups	5.823	78	.075		
	Total	5.837	79			
FMeasure	Between Groups	.085	1	.085	1.681	.199
	Within Groups	3.967	78	.051		
	Total	4.053	79			
Duration	Between Groups	1519145.453	1	1519145.453	19.047	.000
	Within Groups	6221159.435	78	79758.454		
	Total	7740304.888	79			
FirstActDet	Between Groups	303165.739	1	303165.739	12.037	.001
	Within Groups	1964512.461	78	25186.057		
	Total	2267678.200	79			
LastActDet	Between Groups	1396699.039	1	1396699.039	17.868	.000
	Within Groups	6097022.511	78	78166.955		
	Total	7493721.550	79			
ProcDur	Between Groups	2572.109	1	2572.109	9.943	.002
	Within Groups	20176.878	78	258.678		
	Total	22748.987	79			
FixRel	Between Groups	30.876	1	30.876	12.338	.001
	Within Groups	195.196	78	2.503		
	Total	226.072	79			
FixIrrel	Between Groups	17.260	1	17.260	.894	.347
	Within Groups	1505.844	78	19.306		
	Total	1523.104	79			
AvDurRelFix	Between Groups	107770.294	1	107770.294	19.903	.000
	Within Groups	422346.262	78	5414.696		
	Total	530116.555	79			
AvDurIrrelFix	Between Groups	409970.966	1	409970.966	12.969	.001
	Within Groups	2465671.284	78	31611.170		
	Total	2875642.249	79			
TotSac	Between Groups	230.078	1	230.078	1.799	.184
	Within Groups	9976.672	78	127.906		
	Total	10206.750	79			
Sac2Key	Between Groups	2559.068	1	2559.068	11.963	.001
	Within Groups	16684.882	78	213.909		
	Total	19243.950	79			
AvAttention	Between Groups	.122	1	.122	3.083	.083
	Within Groups	3.086	78	.040		
	Total	3.208	79			
AvMentWL	Between Groups	.197	1	.197	3.996	.049
	Within Groups	3.835	78	.049		
	Total	4.032	79			
AvFam	Between Groups	.111	1	.111	4.057	.047
	Within Groups	2.125	78	.027		
	Total	2.236	79			
AvSCL	Between Groups	3460.529	1	3460.529	.192	.662
	Within Groups	1403236.221	78	17990.208		
	Total					

	Total	1406696.750	79			
HRVar_RMSSD	Between Groups	935.693	1	935.693	2.410	.125
	Within Groups	30279.606	78	388.200		
	Total	31215.298	79			
HRVar_NN50	Between Groups	134.182	1	134.182	.390	.534
	Within Groups	26869.248	78	344.478		
	Total	27003.430	79			
NASA_MD	Between Groups	.020	1	.020	.000	.991
	Within Groups	11004.668	78	141.085		
	Total	11004.688	79			
NASA_PD	Between Groups	3560.013	1	3560.013	8.789	.004
	Within Groups	31594.987	78	405.064		
	Total	35155.000	79			
NASA_TD	Between Groups	581.958	1	581.958	1.109	.295
	Within Groups	40916.792	78	524.574		
	Total	41498.750	79			
NASA_Performance	Between Groups	1.382	1	1.382	.002	.968
	Within Groups	68047.368	78	872.402		
	Total	68048.750	79			
NASA_Effort	Between Groups	43.253	1	43.253	.202	.655
	Within Groups	16736.435	78	214.570		
	Total	16779.687	79			
NASA_Frustration	Between Groups	9.135	1	9.135	.017	.897
	Within Groups	42145.865	78	540.332		
	Total	42155.000	79			
NASA_Score	Between Groups	75.551	1	75.551	.320	.573
	Within Groups	18394.288	78	235.824		
	Total	18469.839	79			

Task * LearningStyle - i* concrete syntaxes, GenderMag learning style facet, understanding task						
Dependent Variable	Task	LearningStyle	Mean	Std. Error	95% Confidence Interval	
					Lower Bound	Upper Bound
Precision	i* 1.0 Understand	Abby	.650 ^a	.033	.584	.717
		Tim	.599 ^a	.048	.502	.695
	iStar 2.0 Understand	Abby	.538 ^a	.067	.404	.672
		Tim	.749 ^a	.039	.670	.828
Recall	i* 1.0 Understand	Abby	.717 ^a	.055	.606	.827
		Tim	.616 ^a	.080	.455	.776
	iStar 2.0 Understand	Abby	.743 ^a	.111	.521	.966
		Tim	.745 ^a	.065	.614	.876
FMeasure	i* 1.0 Understand	Abby	.655 ^a	.039	.578	.733
		Tim	.568 ^a	.056	.455	.680
	iStar 2.0 Understand	Abby	.618 ^a	.078	.462	.775
		Tim	.726 ^a	.046	.634	.818
Duration	i* 1.0 Understand	Abby	1108.017 ^a	42.641	1022.662	1193.371
		Tim	1045.267 ^a	61.958	921.245	1169.288
	iStar 2.0 Understand	Abby	637.667 ^a	85.920	465.679	809.654
		Tim	699.949 ^a	50.546	598.769	801.129
FirstActDet	i* 1.0 Understand	Abby	501.865 ^a	23.646	454.532	549.198
		Tim	425.333 ^a	34.359	356.557	494.110
	iStar 2.0 Understand	Abby	507.111 ^a	47.647	411.736	602.487
		Tim	499.568 ^a	28.031	443.459	555.677
LastActDet	i* 1.0 Understand	Abby	1076.771 ^a	42.170	992.360	1161.183
		Tim	1021.600 ^a	61.273	898.948	1144.252
	iStar 2.0 Understand	Abby	616.278 ^a	84.971	446.190	786.365
		Tim	671.496 ^a	49.988	571.434	771.558
ProcDur	i* 1.0 Understand	Abby	31.245 ^a	1.624	27.995	34.496
		Tim	23.667 ^a	2.360	18.943	28.390
	iStar 2.0 Understand	Abby	21.389 ^a	3.272	14.839	27.939
		Tim	28.453 ^a	1.925	24.600	32.306
FixRel	i* 1.0 Understand	Abby	4.840 ^a	.139	4.561	5.118
		Tim	4.760 ^a	.202	4.356	5.165
	iStar 2.0 Understand	Abby	1.509 ^a	.280	.949	2.070
		Tim	1.555 ^a	.165	1.225	1.885
FixIrrel	i* 1.0 Understand	Abby	6.286 ^a	.760	4.765	7.807
		Tim	5.918 ^a	1.104	3.707	8.128
	iStar 2.0 Understand	Abby	.888 ^a	1.531	-2.178	3.953
		Tim	4.188 ^a	.901	2.384	5.991
AvDurRelFix	i* 1.0 Understand	Abby	287.004 ^a	10.660	265.666	308.343
		Tim	271.317 ^a	15.489	240.311	302.322
	iStar 2.0 Understand	Abby	159.417 ^a	21.480	116.420	202.413
		Tim	174.987 ^a	12.637	149.692	200.282
AvDurIrrelFix	i* 1.0 Understand	Abby	665.012 ^a	31.980	600.997	729.028
		Tim		46.468	524.934	710.966

			617.950 ^a			
	iStar 2.0 Understand	Abby	453.250 ^a	64.440	324.260	582.240
		Tim	499.962 ^a	37.910	424.077	575.846
TotSac	i* 1.0 Understand	Abby	91.907 ^a	2.246	87.411	96.404
		Tim	92.700 ^a	3.264	86.167	99.233
	iStar 2.0 Understand	Abby	88.000 ^a	4.526	78.940	97.060
		Tim	86.046 ^a	2.663	80.716	91.376
Sac2Key	i* 1.0 Understand	Abby	84.033 ^a	1.878	80.274	87.793
		Tim	86.667 ^a	2.729	81.204	92.129
	iStar 2.0 Understand	Abby	62.333 ^a	3.784	54.758	69.908
		Tim	58.053 ^a	2.226	53.597	62.509
AvAttention	i* 1.0 Understand	Abby	.610 ^a	.033	.544	.676
		Tim	.683 ^a	.048	.587	.780
	iStar 2.0 Understand	Abby	.378 ^a	.067	.244	.512
		Tim	.513 ^a	.039	.434	.591
AvMentWL	i* 1.0 Understand	Abby	.539 ^a	.043	.452	.625
		Tim	.750 ^a	.063	.624	.876
	iStar 2.0 Understand	Abby	.528 ^a	.087	.353	.702
		Tim	.477 ^a	.051	.374	.580
AvFam	i* 1.0 Understand	Abby	.559 ^a	.032	.495	.623
		Tim	.610 ^a	.047	.516	.704
	iStar 2.0 Understand	Abby	.583 ^a	.065	.454	.713
		Tim	.517 ^a	.038	.440	.593
AvSCL	i* 1.0 Understand	Abby	655.863 ^a	27.613	600.589	711.137
		Tim	616.467 ^a	40.122	536.153	696.780
	iStar 2.0 Understand	Abby	648.222 ^a	55.640	536.847	759.597
		Tim	688.015 ^a	32.733	622.493	753.536
HRVar_RMSSD	i* 1.0 Understand	Abby	35.168 ^a	3.668	27.826	42.510
		Tim	39.014 ^a	5.329	28.346	49.682
	iStar 2.0 Understand	Abby	31.276 ^a	7.391	16.482	46.070
		Tim	35.603 ^a	4.348	26.900	44.306
HRVar_NN50	i* 1.0 Understand	Abby	22.185 ^a	3.535	15.108	29.262
		Tim	23.576 ^a	5.137	13.294	33.859
	iStar 2.0 Understand	Abby	19.921 ^a	7.124	5.661	34.180
		Tim	21.766 ^a	4.191	13.377	30.155
NASA_MD	i* 1.0 Understand	Abby	73.699 ^a	1.869	69.957	77.441
		Tim	71.000 ^a	2.716	65.563	76.437
	iStar 2.0 Understand	Abby	64.444 ^a	3.767	56.905	71.984
		Tim	64.141 ^a	2.216	59.705	68.576
NASA_PD	i* 1.0 Understand	Abby	21.245 ^a	3.476	14.288	28.203
		Tim	11.667 ^a	5.050	1.557	21.776
	iStar 2.0 Understand	Abby	21.667 ^a	7.004	7.648	35.686
		Tim	22.667 ^a	4.120	14.419	30.914
NASA_TD	i* 1.0 Understand	Abby	38.949 ^a	4.057	30.827	47.071
		Tim	31.167 ^a	5.896	19.365	42.968
	iStar 2.0	Abby	32.222 ^a	8.176	15.857	48.588

	Understand	Tim	34.453 ^a	4.810	24.825	44.081
NASA_Performance	i* 1.0 Understand	Abby	52.894 ^a	5.533	41.818	63.970
		Tim	41.333 ^a	8.040	25.240	57.427
	iStar 2.0 Understand	Abby	47.222 ^a	11.149	24.904	69.540
		Tim	65.974 ^a	6.559	52.844	79.104
NASA_Effort	i* 1.0 Understand	Abby	70.403 ^a	2.676	65.045	75.760
		Tim	69.833 ^a	3.889	62.049	77.618
	iStar 2.0 Understand	Abby	64.444 ^a	5.393	53.649	75.240
		Tim	61.703 ^a	3.173	55.352	68.054
NASA_Frustration	i* 1.0 Understand	Abby	50.213 ^a	4.356	41.494	58.932
		Tim	45.333 ^a	6.329	32.664	58.003
	iStar 2.0 Understand	Abby	46.111 ^a	8.777	28.542	63.681
		Tim	52.719 ^a	5.164	42.383	63.055
NASA_Score	i* 1.0 Understand	Abby	51.234 ^a	2.761	45.707	56.761
		Tim	45.056 ^a	4.012	37.025	53.086
	iStar 2.0 Understand	Abby	49.262 ^a	5.563	38.126	60.399
		Tim	56.922 ^a	3.273	50.371	63.474

a. Based on modified population marginal mean.