

Tests of Normality - use case templates, GenderMag motivation facet, understanding task

	Motivation	Kolmogorov-Smirnov <sup>a</sup>			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Precision	Abby	.329	32	.000	.728	32	.000
	Tim	.157	48	.005	.906	48	.001
Recall	Abby	.266	32	.000	.742	32	.000
	Tim	.210	48	.000	.868	48	.000
FMeasure	Abby	.334	32	.000	.740	32	.000
	Tim	.198	48	.000	.902	48	.001
Duration	Abby	.222	32	.000	.866	32	.001
	Tim	.200	48	.000	.931	48	.008
FirstActDet	Abby	.250	32	.000	.853	32	.000
	Tim	.269	48	.000	.833	48	.000
LastActDet	Abby	.210	32	.001	.887	32	.003
	Tim	.195	48	.000	.923	48	.004
ProcDur	Abby	.235	32	.000	.855	32	.001
	Tim	.294	48	.000	.720	48	.000
FixRel	Abby	.143	32	.097	.941	32	.081
	Tim	.184	48	.000	.907	48	.001
FixIrrel	Abby	.225	32	.000	.832	32	.000
	Tim	.236	48	.000	.807	48	.000
AvDurRelFix	Abby	.233	32	.000	.834	32	.000
	Tim	.223	48	.000	.828	48	.000
AvDurIrrelFix	Abby	.214	32	.001	.880	32	.002
	Tim	.184	48	.000	.849	48	.000
TotSac	Abby	.168	32	.022	.899	32	.006
	Tim	.158	48	.004	.893	48	.000
Sac2Key	Abby	.171	32	.018	.906	32	.009
	Tim	.184	48	.000	.883	48	.000
AvAttention	Abby	.143	32	.096	.947	32	.117
	Tim	.204	48	.000	.905	48	.001
AvMentWL	Abby	.202	32	.002	.926	32	.031
	Tim	.188	48	.000	.924	48	.004
AvFam	Abby	.147	32	.075	.947	32	.117
	Tim	.169	48	.002	.906	48	.001
AvSCL	Abby	.166	32	.025	.902	32	.007
	Tim	.178	48	.001	.925	48	.005
HRVar_RMSSD	Abby	.230	32	.000	.843	32	.000
	Tim	.238	48	.000	.864	48	.000
HRVar_NN50	Abby	.235	32	.000	.819	32	.000
	Tim	.191	48	.000	.875	48	.000
NASA_MD	Abby	.170	32	.020	.897	32	.005
	Tim	.156	48	.005	.931	48	.007
NASA_PD	Abby	.359	32	.000	.660	32	.000
	Tim	.347	48	.000	.683	48	.000
NASA_TD	Abby	.252	32	.000	.766	32	.000
	Tim	.250	48	.000	.802	48	.000
NASA_Performance	Abby	.164	32	.028	.912	32	.013
	Tim	.237	48	.000	.915	48	.002
NASA_Effort	Abby	.138	32	.125	.892	32	.004
	Tim	.144	48	.014	.940	48	.017

NASA_Frustration	Abby	.192	32	.004	.890	32	.004
	Tim	.228	48	.000	.852	48	.000
NASA_Score	Abby	.180	32	.010	.897	32	.005
	Tim	.206	48	.000	.909	48	.001

a. Lilliefors Significance Correction

Tests of Normality - use case templates, GenderMag information processing facet, understanding task

	InformationProcessing	Kolmogorov-Smirnov <sup>a</sup>			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Precision	Abby	.183	51	.000	.895	51	.000
	Tim	.319	29	.000	.719	29	.000
Recall	Abby	.183	51	.000	.883	51	.000
	Tim	.314	29	.000	.706	29	.000
FMeasure	Abby	.215	51	.000	.902	51	.000
	Tim	.338	29	.000	.714	29	.000
Duration	Abby	.148	51	.007	.916	51	.001
	Tim	.341	29	.000	.817	29	.000
FirstActDet	Abby	.301	51	.000	.797	51	.000
	Tim	.197	29	.005	.872	29	.002
LastActDet	Abby	.136	51	.019	.918	51	.002
	Tim	.309	29	.000	.838	29	.000
ProcDur	Abby	.313	51	.000	.677	51	.000
	Tim	.209	29	.002	.905	29	.013
FixRel	Abby	.209	51	.000	.900	51	.000
	Tim	.148	29	.103	.943	29	.119
FixIrrel	Abby	.222	51	.000	.823	51	.000
	Tim	.325	29	.000	.724	29	.000
AvDurRelFix	Abby	.208	51	.000	.849	51	.000
	Tim	.323	29	.000	.725	29	.000
AvDurIrrelFix	Abby	.209	51	.000	.849	51	.000
	Tim	.246	29	.000	.784	29	.000
TotSac	Abby	.173	51	.001	.879	51	.000
	Tim	.154	29	.078	.894	29	.007
Sac2Key	Abby	.212	51	.000	.871	51	.000
	Tim	.169	29	.033	.873	29	.002
AvAttention	Abby	.229	51	.000	.851	51	.000
	Tim	.166	29	.041	.869	29	.002
AvMentWL	Abby	.242	51	.000	.862	51	.000
	Tim	.201	29	.004	.886	29	.004
AvFam	Abby	.190	51	.000	.916	51	.002
	Tim	.181	29	.016	.913	29	.020
AvSCL	Abby	.219	51	.000	.900	51	.000
	Tim	.209	29	.002	.876	29	.003
HRVar_RMSSD	Abby	.262	51	.000	.865	51	.000
	Tim	.244	29	.000	.770	29	.000
HRVar_NN50	Abby	.189	51	.000	.872	51	.000
	Tim	.193	29	.007	.872	29	.002
NASA_MD	Abby	.167	51	.001	.911	51	.001
	Tim	.254	29	.000	.877	29	.003
NASA_PD	Abby	.356	51	.000	.597	51	.000
	Tim	.326	29	.000	.728	29	.000
NASA_TD	Abby	.269	51	.000	.765	51	.000
	Tim	.231	29	.000	.802	29	.000
NASA_Performance	Abby	.257	51	.000	.878	51	.000
	Tim	.251	29	.000	.870	29	.002
NASA_Effort	Abby	.131	51	.028	.907	51	.001
	Tim	.227	29	.001	.831	29	.000

NASA_Frustration	Abby	.175	51	.000	.903	51	.001
	Tim	.281	29	.000	.761	29	.000
NASA_Score	Abby	.230	51	.000	.862	51	.000
	Tim	.257	29	.000	.859	29	.001

a. Lilliefors Significance Correction

Tests of Normality - use case templates, GenderMag self-efficacy facet, understanding task

	SelfEfficacy	Kolmogorov-Smirnov <sup>a</sup>			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Precision	Abby	.174	46	.001	.898	46	.001
	Tim	.260	34	.000	.751	34	.000
Recall	Abby	.173	46	.001	.899	46	.001
	Tim	.312	34	.000	.700	34	.000
FMeasure	Abby	.207	46	.000	.904	46	.001
	Tim	.311	34	.000	.744	34	.000
Duration	Abby	.175	46	.001	.916	46	.003
	Tim	.254	34	.000	.895	34	.003
FirstActDet	Abby	.299	46	.000	.813	46	.000
	Tim	.210	34	.001	.880	34	.001
LastActDet	Abby	.172	46	.002	.909	46	.002
	Tim	.242	34	.000	.890	34	.003
ProcDur	Abby	.279	46	.000	.749	46	.000
	Tim	.223	34	.000	.841	34	.000
FixRel	Abby	.207	46	.000	.902	46	.001
	Tim	.135	34	.121	.946	34	.094
FixIrrel	Abby	.226	46	.000	.837	46	.000
	Tim	.286	34	.000	.787	34	.000
AvDurRelFix	Abby	.230	46	.000	.856	46	.000
	Tim	.280	34	.000	.802	34	.000
AvDurIrrelFix	Abby	.220	46	.000	.861	46	.000
	Tim	.228	34	.000	.844	34	.000
TotSac	Abby	.166	46	.003	.900	46	.001
	Tim	.137	34	.107	.908	34	.008
Sac2Key	Abby	.158	46	.006	.913	46	.002
	Tim	.195	34	.002	.865	34	.001
AvAttention	Abby	.220	46	.000	.897	46	.001
	Tim	.161	34	.026	.936	34	.047
AvMentWL	Abby	.221	46	.000	.920	46	.004
	Tim	.184	34	.005	.913	34	.011
AvFam	Abby	.205	46	.000	.910	46	.002
	Tim	.141	34	.084	.926	34	.024
AvSCL	Abby	.167	46	.002	.922	46	.004
	Tim	.150	34	.052	.897	34	.004
HRVar_RMSSD	Abby	.199	46	.000	.882	46	.000
	Tim	.214	34	.000	.860	34	.000
HRVar_NN50	Abby	.194	46	.000	.863	46	.000
	Tim	.167	34	.017	.896	34	.004
NASA_MD	Abby	.187	46	.000	.917	46	.003
	Tim	.241	34	.000	.901	34	.005
NASA_PD	Abby	.367	46	.000	.624	46	.000
	Tim	.319	34	.000	.727	34	.000
NASA_TD	Abby	.233	46	.000	.798	46	.000
	Tim	.292	34	.000	.781	34	.000
NASA_Performance	Abby	.185	46	.000	.915	46	.003
	Tim	.174	34	.011	.921	34	.017
NASA_Effort	Abby	.132	46	.043	.905	46	.001
	Tim	.215	34	.000	.908	34	.007

NASA_Frustration	Abby	.180	46	.001	.910	46	.002
	Tim	.256	34	.000	.792	34	.000
NASA_Score	Abby	.173	46	.001	.907	46	.001
	Tim	.200	34	.001	.898	34	.004

a. Lilliefors Significance Correction

Tests of Normality - use case templates, GenderMag risk facet, understanding task

	Risk	Kolmogorov-Smirnov <sup>a</sup>			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Precision	Abby	.368	24	.000	.694	24	.000
	Tim	.157	56	.001	.904	56	.000
Recall	Abby	.212	24	.007	.795	24	.000
	Tim	.210	56	.000	.847	56	.000
FMeasure	Abby	.347	24	.000	.736	24	.000
	Tim	.191	56	.000	.888	56	.000
Duration	Abby	.262	24	.000	.782	24	.000
	Tim	.209	56	.000	.930	56	.003
FirstActDet	Abby	.164	24	.095	.871	24	.006
	Tim	.309	56	.000	.791	56	.000
LastActDet	Abby	.224	24	.003	.841	24	.002
	Tim	.206	56	.000	.929	56	.003
ProcDur	Abby	.146	24	.199	.930	24	.096
	Tim	.248	56	.000	.869	56	.000
FixRel	Abby	.168	24	.077	.931	24	.100
	Tim	.178	56	.000	.923	56	.002
FixIrrel	Abby	.323	24	.000	.664	24	.000
	Tim	.254	56	.000	.838	56	.000
AvDurRelFix	Abby	.317	24	.000	.651	24	.000
	Tim	.231	56	.000	.860	56	.000
AvDurIrrelFix	Abby	.240	24	.001	.740	24	.000
	Tim	.181	56	.000	.882	56	.000
TotSac	Abby	.320	24	.000	.720	24	.000
	Tim	.172	56	.000	.866	56	.000
Sac2Key	Abby	.182	24	.038	.889	24	.013
	Tim	.176	56	.000	.915	56	.001
AvAttention	Abby	.198	24	.016	.896	24	.018
	Tim	.172	56	.000	.919	56	.001
AvMentWL	Abby	.193	24	.022	.907	24	.031
	Tim	.269	56	.000	.873	56	.000
AvFam	Abby	.213	24	.006	.896	24	.017
	Tim	.189	56	.000	.913	56	.001
AvSCL	Abby	.313	24	.000	.765	24	.000
	Tim	.188	56	.000	.863	56	.000
HRVar_RMSSD	Abby	.313	24	.000	.762	24	.000
	Tim	.238	56	.000	.876	56	.000
HRVar_NN50	Abby	.289	24	.000	.767	24	.000
	Tim	.161	56	.001	.889	56	.000
NASA_MD	Abby	.156	24	.137	.936	24	.132
	Tim	.215	56	.000	.919	56	.001
NASA_PD	Abby	.399	24	.000	.641	24	.000
	Tim	.354	56	.000	.640	56	.000
NASA_TD	Abby	.233	24	.002	.798	24	.000
	Tim	.276	56	.000	.784	56	.000
NASA_Performance	Abby	.191	24	.024	.798	24	.000
	Tim	.293	56	.000	.865	56	.000
NASA_Effort	Abby	.193	24	.021	.866	24	.004
	Tim	.218	56	.000	.866	56	.000
NASA_Frustration	Abby	.156	24	.136	.903	24	.025

	Tim	.256	56	.000	.816	56	.000
NASA_Score	Abby	.256	24	.000	.826	24	.001
	Tim	.226	56	.000	.886	56	.000

a. Lilliefors Significance Correction



Tests of Normality - use case templates, GenderMag learning style facet, understanding task

	LearningStyle	Kolmogorov-Smirnov <sup>a</sup>			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Precision	Abby	.203	24	.012	.841	24	.001
	Tim	.207	56	.000	.850	56	.000
Recall	Abby	.232	24	.002	.827	24	.001
	Tim	.192	56	.000	.823	56	.000
FMeasure	Abby	.275	24	.000	.833	24	.001
	Tim	.240	56	.000	.851	56	.000
Duration	Abby	.166	24	.087	.907	24	.031
	Tim	.220	56	.000	.919	56	.001
FirstActDet	Abby	.332	24	.000	.776	24	.000
	Tim	.231	56	.000	.870	56	.000
LastActDet	Abby	.163	24	.100	.899	24	.020
	Tim	.201	56	.000	.918	56	.001
ProcDur	Abby	.306	24	.000	.697	24	.000
	Tim	.226	56	.000	.827	56	.000
FixRel	Abby	.185	24	.032	.939	24	.154
	Tim	.129	56	.022	.929	56	.003
FixIrrel	Abby	.255	24	.000	.835	24	.001
	Tim	.224	56	.000	.810	56	.000
AvDurRelFix	Abby	.235	24	.001	.853	24	.002
	Tim	.218	56	.000	.824	56	.000
AvDurIrrelFix	Abby	.185	24	.033	.883	24	.010
	Tim	.189	56	.000	.847	56	.000
TotSac	Abby	.161	24	.110	.905	24	.028
	Tim	.176	56	.000	.906	56	.000
Sac2Key	Abby	.206	24	.010	.902	24	.024
	Tim	.191	56	.000	.891	56	.000
AvAttention	Abby	.195	24	.018	.923	24	.066
	Tim	.175	56	.000	.919	56	.001
AvMentWL	Abby	.135	24	.200*	.925	24	.075
	Tim	.222	56	.000	.913	56	.001
AvFam	Abby	.141	24	.200*	.942	24	.176
	Tim	.155	56	.002	.924	56	.002
AvSCL	Abby	.170	24	.071	.914	24	.044
	Tim	.153	56	.002	.924	56	.002
HRVar_RMSSD	Abby	.202	24	.012	.876	24	.007
	Tim	.179	56	.000	.880	56	.000
HRVar_NN50	Abby	.177	24	.050	.871	24	.005
	Tim	.173	56	.000	.885	56	.000
NASA_MD	Abby	.153	24	.151	.950	24	.277
	Tim	.156	56	.002	.918	56	.001
NASA_PD	Abby	.331	24	.000	.735	24	.000
	Tim	.359	56	.000	.644	56	.000
NASA_TD	Abby	.249	24	.000	.831	24	.001
	Tim	.250	56	.000	.743	56	.000
NASA_Performance	Abby	.214	24	.006	.901	24	.023
	Tim	.162	56	.001	.929	56	.003
NASA_Effort	Abby	.150	24	.176	.925	24	.076

	Tim	.118	56	.052	.921	56	.001
NASA_Frustration	Abby	.165	24	.091	.886	24	.011
	Tim	.239	56	.000	.857	56	.000
NASA_Score	Abby	.178	24	.048	.938	24	.145
	Tim	.195	56	.000	.892	56	.000

\*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction