

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

	Motivation	Kolmogorov-Smirnov <sup>a</sup>			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Precision	Abby	.269	36	.000	.780	36	.000
	Tim	.152	44	.012	.918	44	.004
Recall	Abby	.139	36	.075	.888	36	.002
	Tim	.148	44	.017	.913	44	.003
FMeasure	Abby	.223	36	.000	.825	36	.000
	Tim	.171	44	.002	.924	44	.007
Duration	Abby	.166	36	.014	.921	36	.014
	Tim	.154	44	.011	.923	44	.006
FirstActDet	Abby	.194	36	.001	.907	36	.005
	Tim	.143	44	.025	.923	44	.006
LastActDet	Abby	.146	36	.050	.923	36	.015
	Tim	.145	44	.021	.933	44	.014
ProcDur	Abby	.228	36	.000	.868	36	.001
	Tim	.225	44	.000	.851	44	.000
FixRel	Abby	.287	36	.000	.768	36	.000
	Tim	.269	44	.000	.817	44	.000
FixIrrel	Abby	.322	36	.000	.705	36	.000
	Tim	.239	44	.000	.769	44	.000
AvDurRelFix	Abby	.104	36	.200 <sup>*</sup>	.931	36	.028
	Tim	.165	44	.004	.899	44	.001
AvDurIrrelFix	Abby	.123	36	.189	.922	36	.014
	Tim	.160	44	.006	.893	44	.001
TotSac	Abby	.208	36	.000	.875	36	.001
	Tim	.161	44	.006	.886	44	.000
Sac2Key	Abby	.133	36	.105	.941	36	.055
	Tim	.220	44	.000	.792	44	.000
AvAttention	Abby	.195	36	.001	.882	36	.001
	Tim	.155	44	.010	.924	44	.006
AvMentWL	Abby	.183	36	.004	.932	36	.029
	Tim	.164	44	.005	.940	44	.023
AvFam	Abby	.162	36	.018	.930	36	.025
	Tim	.181	44	.001	.895	44	.001
AvSCL	Abby	.114	36	.200 <sup>*</sup>	.938	36	.045
	Tim	.170	44	.003	.887	44	.000
HRVar_RMSSD	Abby	.192	36	.002	.863	36	.000
	Tim	.264	44	.000	.792	44	.000
HRVar_NN50	Abby	.201	36	.001	.852	36	.000
	Tim	.205	44	.000	.844	44	.000
NASA_MD	Abby	.220	36	.000	.873	36	.001
	Tim	.250	44	.000	.835	44	.000
NASA_PD	Abby	.319	36	.000	.771	36	.000
	Tim	.247	44	.000	.811	44	.000
NASA_TD	Abby	.217	36	.000	.829	36	.000
	Tim	.157	44	.008	.939	44	.021
NASA_Performance	Abby	.141	36	.069	.934	36	.033
	Tim	.213	44	.000	.880	44	.000
NASA_Effort	Abby	.151	36	.038	.921	36	.014

	Tim	.190	44	.000	.862	44	.000
NASA_Frustration	Abby	.213	36	.000	.846	36	.000
	Tim	.264	44	.000	.801	44	.000
NASA_Score	Abby	.119	36	.200*	.962	36	.249
	Tim	.140	44	.031	.969	44	.276

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

a. Lilliefors Significance Correction

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

	InformationProcessing	Kolmogorov-Smirnov <sup>a</sup>			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Precision	Abby	.201	26	.008	.893	26	.011
	Tim	.236	54	.000	.810	54	.000
Recall	Abby	.211	26	.004	.873	26	.004
	Tim	.179	54	.000	.904	54	.000
FMeasure	Abby	.164	26	.070	.894	26	.012
	Tim	.226	54	.000	.852	54	.000
Duration	Abby	.100	26	.200 <sup>*</sup>	.973	26	.698
	Tim	.226	54	.000	.877	54	.000
FirstActDet	Abby	.173	26	.045	.906	26	.021
	Tim	.170	54	.000	.914	54	.001
LastActDet	Abby	.094	26	.200 <sup>*</sup>	.977	26	.809
	Tim	.202	54	.000	.900	54	.000
ProcDur	Abby	.337	26	.000	.718	26	.000
	Tim	.207	54	.000	.893	54	.000
FixRel	Abby	.304	26	.000	.769	26	.000
	Tim	.251	54	.000	.812	54	.000
FixIrrel	Abby	.207	26	.006	.784	26	.000
	Tim	.330	54	.000	.720	54	.000
AvDurRelFix	Abby	.141	26	.194	.944	26	.167
	Tim	.182	54	.000	.877	54	.000
AvDurIrrelFix	Abby	.174	26	.042	.914	26	.033
	Tim	.191	54	.000	.874	54	.000
TotSac	Abby	.149	26	.143	.918	26	.040
	Tim	.216	54	.000	.858	54	.000
Sac2Key	Abby	.177	26	.036	.900	26	.015
	Tim	.169	54	.001	.843	54	.000
AvAttention	Abby	.262	26	.000	.912	26	.030
	Tim	.165	54	.001	.886	54	.000
AvMentWL	Abby	.228	26	.001	.904	26	.020
	Tim	.121	54	.048	.943	54	.013
AvFam	Abby	.242	26	.000	.889	26	.009
	Tim	.136	54	.014	.933	54	.005
AvSCL	Abby	.219	26	.002	.908	26	.024
	Tim	.197	54	.000	.885	54	.000
HRVar_RMSSD	Abby	.293	26	.000	.851	26	.001
	Tim	.271	54	.000	.729	54	.000
HRVar_NN50	Abby	.202	26	.008	.869	26	.003
	Tim	.230	54	.000	.840	54	.000
NASA_MD	Abby	.240	26	.000	.812	26	.000
	Tim	.287	54	.000	.771	54	.000
NASA_PD	Abby	.330	26	.000	.681	26	.000
	Tim	.235	54	.000	.818	54	.000
NASA_TD	Abby	.199	26	.009	.845	26	.001
	Tim	.141	54	.009	.926	54	.003
NASA_Performance	Abby	.179	26	.032	.939	26	.125
	Tim	.250	54	.000	.877	54	.000
NASA_Effort	Abby	.185	26	.023	.884	26	.007

	Tim	.210	54	.000	.799	54	.000
NASA_Frustration	Abby	.200	26	.009	.865	26	.003
	Tim	.271	54	.000	.753	54	.000
NASA_Score	Abby	.251	26	.000	.882	26	.006
	Tim	.203	54	.000	.932	54	.004

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

a. Lilliefors Significance Correction

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

	SelfEfficacy	Kolmogorov-Smirnov <sup>a</sup>			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Precision	Abby	.211	32	.001	.867	32	.001
	Tim	.185	48	.000	.863	48	.000
Recall	Abby	.135	32	.148	.911	32	.012
	Tim	.140	48	.020	.907	48	.001
FMeasure	Abby	.172	32	.017	.891	32	.004
	Tim	.211	48	.000	.880	48	.000
Duration	Abby	.168	32	.023	.925	32	.029
	Tim	.190	48	.000	.912	48	.002
FirstActDet	Abby	.213	32	.001	.866	32	.001
	Tim	.156	48	.005	.937	48	.012
LastActDet	Abby	.141	32	.106	.934	32	.050
	Tim	.167	48	.002	.925	48	.005
ProcDur	Abby	.239	32	.000	.841	32	.000
	Tim	.218	48	.000	.869	48	.000
FixRel	Abby	.273	32	.000	.804	32	.000
	Tim	.241	48	.000	.810	48	.000
FixIrrel	Abby	.272	32	.000	.752	32	.000
	Tim	.282	48	.000	.740	48	.000
AvDurRelFix	Abby	.143	32	.097	.940	32	.074
	Tim	.155	48	.005	.903	48	.001
AvDurIrrelFix	Abby	.158	32	.040	.920	32	.021
	Tim	.166	48	.002	.894	48	.000
TotSac	Abby	.179	32	.011	.885	32	.003
	Tim	.183	48	.000	.907	48	.001
Sac2Key	Abby	.205	32	.001	.870	32	.001
	Tim	.155	48	.005	.893	48	.000
AvAttention	Abby	.146	32	.081	.937	32	.062
	Tim	.137	48	.025	.898	48	.001
AvMentWL	Abby	.151	32	.062	.940	32	.075
	Tim	.178	48	.001	.953	48	.052
AvFam	Abby	.188	32	.006	.892	32	.004
	Tim	.150	48	.009	.942	48	.020
AvSCL	Abby	.135	32	.146	.884	32	.003
	Tim	.146	48	.013	.931	48	.008
HRVar_RMSSD	Abby	.260	32	.000	.838	32	.000
	Tim	.211	48	.000	.818	48	.000
HRVar_NN50	Abby	.271	32	.000	.827	32	.000
	Tim	.183	48	.000	.887	48	.000
NASA_MD	Abby	.234	32	.000	.838	32	.000
	Tim	.242	48	.000	.872	48	.000
NASA_PD	Abby	.221	32	.000	.837	32	.000
	Tim	.318	48	.000	.763	48	.000
NASA_TD	Abby	.159	32	.039	.934	32	.052
	Tim	.191	48	.000	.858	48	.000
NASA_Performance	Abby	.195	32	.003	.922	32	.024
	Tim	.163	48	.003	.912	48	.002
NASA_Effort	Abby	.271	32	.000	.845	32	.000
	Tim	.181	48	.000	.922	48	.004
NASA_Frustration	Abby	.228	32	.000	.833	32	.000

	Tim	.239	48	.000	.828	48	.000
NASA_Score	Abby	.175	32	.014	.961	32	.298
	Tim	.147	48	.011	.948	48	.035

a. Lilliefors Significance Correction

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

	Risk	Kolmogorov-Smirnov <sup>a</sup>			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Precision	Abby	.203	34	.001	.910	34	.008
	Tim	.181	46	.001	.869	46	.000
Recall	Abby	.166	34	.019	.914	34	.011
	Tim	.191	46	.000	.846	46	.000
FMeasure	Abby	.203	34	.001	.906	34	.007
	Tim	.206	46	.000	.852	46	.000
Duration	Abby	.268	34	.000	.806	34	.000
	Tim	.117	46	.131	.934	46	.012
FirstActDet	Abby	.233	34	.000	.914	34	.011
	Tim	.207	46	.000	.883	46	.000
LastActDet	Abby	.234	34	.000	.854	34	.000
	Tim	.114	46	.166	.938	46	.016
ProcDur	Abby	.203	34	.001	.886	34	.002
	Tim	.113	46	.173	.960	46	.112
FixRel	Abby	.260	34	.000	.814	34	.000
	Tim	.276	46	.000	.789	46	.000
FixIrrel	Abby	.298	34	.000	.682	34	.000
	Tim	.274	46	.000	.773	46	.000
AvDurRelFix	Abby	.286	34	.000	.723	34	.000
	Tim	.155	46	.007	.948	46	.040
AvDurIrrelFix	Abby	.249	34	.000	.784	34	.000
	Tim	.178	46	.001	.919	46	.003
TotSac	Abby	.394	34	.000	.703	34	.000
	Tim	.201	46	.000	.841	46	.000
Sac2Key	Abby	.236	34	.000	.795	34	.000
	Tim	.225	46	.000	.892	46	.000
AvAttention	Abby	.191	34	.003	.850	34	.000
	Tim	.120	46	.094	.950	46	.047
AvMentWL	Abby	.147	34	.060	.948	34	.109
	Tim	.175	46	.001	.920	46	.004
AvFam	Abby	.187	34	.004	.900	34	.005
	Tim	.209	46	.000	.899	46	.001
AvSCL	Abby	.229	34	.000	.852	34	.000
	Tim	.157	46	.006	.894	46	.001
HRVar_RMSSD	Abby	.342	34	.000	.612	34	.000
	Tim	.177	46	.001	.893	46	.000
HRVar_NN50	Abby	.288	34	.000	.698	34	.000
	Tim	.165	46	.003	.890	46	.000
NASA_MD	Abby	.304	34	.000	.806	34	.000
	Tim	.335	46	.000	.755	46	.000
NASA_PD	Abby	.325	34	.000	.757	34	.000
	Tim	.311	46	.000	.733	46	.000
NASA_TD	Abby	.162	34	.025	.923	34	.020
	Tim	.183	46	.001	.907	46	.001
NASA_Performance	Abby	.255	34	.000	.805	34	.000
	Tim	.219	46	.000	.905	46	.001
NASA_Effort	Abby	.309	34	.000	.827	34	.000
	Tim	.287	46	.000	.785	46	.000
NASA_Frustration	Abby	.296	34	.000	.816	34	.000

	Tim	.288	46	.000	.736	46	.000
NASA_Score	Abby	.274	34	.000	.915	34	.012
	Tim	.203	46	.000	.937	46	.015

a. Lilliefors Significance Correction



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

	LearningStyle	Kolmogorov-Smirnov <sup>a</sup>			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Precision	Abby	.183	27	.021	.882	27	.005
	Tim	.193	53	.000	.854	53	.000
Recall	Abby	.120	27	.200*	.923	27	.047
	Tim	.147	53	.006	.901	53	.000
FMeasure	Abby	.145	27	.148	.916	27	.031
	Tim	.223	53	.000	.876	53	.000
Duration	Abby	.190	27	.014	.919	27	.037
	Tim	.146	53	.007	.926	53	.003
FirstActDet	Abby	.202	27	.006	.899	27	.013
	Tim	.158	53	.002	.916	53	.001
LastActDet	Abby	.189	27	.015	.920	27	.039
	Tim	.127	53	.033	.938	53	.008
ProcDur	Abby	.205	27	.005	.887	27	.007
	Tim	.240	53	.000	.850	53	.000
FixRel	Abby	.262	27	.000	.805	27	.000
	Tim	.281	53	.000	.803	53	.000
FixIrrel	Abby	.345	27	.000	.701	27	.000
	Tim	.239	53	.000	.766	53	.000
AvDurRelFix	Abby	.166	27	.054	.907	27	.020
	Tim	.148	53	.006	.924	53	.002
AvDurIrrelFix	Abby	.175	27	.034	.892	27	.009
	Tim	.137	53	.014	.915	53	.001
TotSac	Abby	.147	27	.139	.896	27	.011
	Tim	.163	53	.001	.904	53	.000
Sac2Key	Abby	.204	27	.006	.805	27	.000
	Tim	.156	53	.003	.903	53	.000
AvAttention	Abby	.116	27	.200*	.940	27	.122
	Tim	.177	53	.000	.888	53	.000
AvMentWL	Abby	.134	27	.200*	.954	27	.274
	Tim	.168	53	.001	.951	53	.029
AvFam	Abby	.134	27	.200*	.921	27	.041
	Tim	.132	53	.021	.933	53	.005
AvSCL	Abby	.190	27	.014	.867	27	.003
	Tim	.117	53	.066	.942	53	.012
HRVar_RMSSD	Abby	.285	27	.000	.786	27	.000
	Tim	.202	53	.000	.855	53	.000
HRVar_NN50	Abby	.256	27	.000	.832	27	.001
	Tim	.173	53	.000	.882	53	.000
NASA_MD	Abby	.226	27	.001	.810	27	.000
	Tim	.244	53	.000	.876	53	.000
NASA_PD	Abby	.232	27	.001	.814	27	.000
	Tim	.303	53	.000	.780	53	.000
NASA_TD	Abby	.133	27	.200*	.937	27	.100
	Tim	.180	53	.000	.873	53	.000
NASA_Performance	Abby	.226	27	.001	.909	27	.021
	Tim	.150	53	.005	.926	53	.003
NASA_Effort	Abby	.187	27	.017	.842	27	.001

	Tim	.150	53	.005	.924	53	.002
NASA_Frustration	Abby	.197	27	.008	.861	27	.002
	Tim	.256	53	.000	.810	53	.000
NASA_Score	Abby	.115	27	.200*	.985	27	.954
	Tim	.129	53	.029	.956	53	.049

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

a. Lilliefors Significance Correction