

# Test of Homogeneity of Variances - i\* and use cases, creation task

		Levene Statistic	df1	df2	Sig.
Precision	Based on Mean	.110	3	166	.954
	Based on Median	.094	3	166	.963
	Based on Median and with adjusted df	.094	3	143.143	.963
	Based on trimmed mean	.053	3	166	.984
Recall	Based on Mean	2.929	3	166	.035
	Based on Median	2.077	3	166	.105
	Based on Median and with adjusted df	2.077	3	122.540	.107
	Based on trimmed mean	2.827	3	166	.040
FMeasure	Based on Mean	3.745	3	166	.012
	Based on Median	1.812	3	166	.147
	Based on Median and with adjusted df	1.812	3	110.383	.149
	Based on trimmed mean	3.062	3	166	.030
Duration	Based on Mean	63.427	3	166	.000
	Based on Median	23.884	3	166	.000
	Based on Median and with adjusted df	23.884	3	62.833	.000
	Based on trimmed mean	55.325	3	166	.000
FirstActDet	Based on Mean	14.243	3	166	.000
	Based on Median	7.815	3	166	.000
	Based on Median and with adjusted df	7.815	3	97.243	.000
	Based on trimmed mean	12.129	3	166	.000
LastActDet	Based on Mean	47.957	3	166	.000
	Based on Median	19.050	3	166	.000
	Based on Median and with adjusted df	19.050	3	57.191	.000
	Based on trimmed mean	42.371	3	166	.000
ProcDur	Based on Mean	52.275	3	166	.000
	Based on Median	51.487	3	166	.000
	Based on Median and with adjusted df	51.487	3	49.940	.000
	Based on trimmed mean	51.071	3	166	.000
FixRel	Based on Mean	2.257	3	166	.084
	Based on Median	1.239	3	166	.297
	Based on Median and with adjusted df	1.239	3	164.596	.297
	Based on trimmed mean	2.246	3	166	.085
FixIrrel	Based on Mean	280.668	3	166	.000
	Based on Median	82.416	3	166	.000
	Based on Median and with adjusted df	82.416	3	39.413	.000
	Based on trimmed mean	245.172	3	166	.000
AvDurRelFix	Based on Mean	40.523	3	166	.000
	Based on Median	27.015	3	166	.000
	Based on Median and with adjusted df	27.015	3	56.290	.000
	Based on trimmed mean	37.688	3	166	.000
AvDurIrrelFix	Based on Mean	8.956	3	166	.000
	Based on Median	8.048	3	166	.000
	Based on Median and with adjusted df	8.048	3	82.955	.000

TotSac	Based on trimmed mean	8.841	3	166	.000
	Based on Mean	.348	3	166	.791
	Based on Median	.374	3	166	.772
	Based on Median and with adjusted df	.374	3	164.798	.772
	Based on trimmed mean	.305	3	166	.822
Sac2Key	Based on Mean	2.788	3	166	.042
	Based on Median	2.485	3	166	.063
	Based on Median and with adjusted df	2.485	3	165.040	.063
	Based on trimmed mean	2.779	3	166	.043
AvAttention	Based on Mean	3.375	3	166	.020
	Based on Median	2.604	3	166	.054
	Based on Median and with adjusted df	2.604	3	159.936	.054
	Based on trimmed mean	3.288	3	166	.022
AvMentWL	Based on Mean	.625	3	166	.600
	Based on Median	.477	3	166	.699
	Based on Median and with adjusted df	.477	3	149.837	.699
	Based on trimmed mean	.573	3	166	.633
AvFam	Based on Mean	1.023	3	166	.384
	Based on Median	.600	3	166	.616
	Based on Median and with adjusted df	.600	3	148.166	.616
	Based on trimmed mean	1.032	3	166	.380
AvSCL	Based on Mean	1.084	3	166	.357
	Based on Median	.793	3	166	.499
	Based on Median and with adjusted df	.793	3	165.476	.499
	Based on trimmed mean	1.029	3	166	.381
HRVar_RMSSD	Based on Mean	.420	3	166	.739
	Based on Median	.155	3	166	.926
	Based on Median and with adjusted df	.155	3	149.862	.926
	Based on trimmed mean	.419	3	166	.740
HRVar_NN50	Based on Mean	.204	3	166	.893
	Based on Median	.244	3	166	.866
	Based on Median and with adjusted df	.244	3	147.135	.866
	Based on trimmed mean	.237	3	166	.871
NASA_MD	Based on Mean	2.896	3	166	.037
	Based on Median	1.777	3	166	.153
	Based on Median and with adjusted df	1.777	3	135.575	.154
	Based on trimmed mean	2.849	3	166	.039
NASA_PD	Based on Mean	.744	3	166	.527
	Based on Median	.043	3	166	.988
	Based on Median and with adjusted df	.043	3	156.289	.988
	Based on trimmed mean	.634	3	166	.594
NASA_TD	Based on Mean	19.065	3	166	.000
	Based on Median	10.654	3	166	.000
	Based on Median and with adjusted df	10.654	3	136.817	.000
	Based on trimmed mean	18.732	3	166	.000
NASA_Performance	Based on Mean	11.358	3	166	.000

	Based on Median	4.444	3	166	.005
	Based on Median and with adjusted df	4.444	3	113.286	.005
	Based on trimmed mean	10.609	3	166	.000
NASA_Effort	Based on Mean	1.018	3	166	.386
	Based on Median	.999	3	166	.395
	Based on Median and with adjusted df	.999	3	157.600	.395
	Based on trimmed mean	1.007	3	166	.391
NASA_Frustration	Based on Mean	9.471	3	166	.000
	Based on Median	4.776	3	166	.003
	Based on Median and with adjusted df	4.776	3	91.473	.004
	Based on trimmed mean	9.095	3	166	.000
NASA_Score	Based on Mean	13.060	3	166	.000
	Based on Median	10.530	3	166	.000
	Based on Median and with adjusted df	10.530	3	153.777	.000
	Based on trimmed mean	12.905	3	166	.000

# Test of Homogeneity of Variances - i\* and use cases, modification task

		Levene Statistic	df1	df2	Sig.
Precision	Based on Mean	.291	3	166	.832
	Based on Median	.084	3	166	.969
	Based on Median and with adjusted df	.084	3	144.752	.969
	Based on trimmed mean	.175	3	166	.913
Recall	Based on Mean	4.726	3	166	.003
	Based on Median	3.376	3	166	.020
	Based on Median and with adjusted df	3.376	3	133.920	.020
	Based on trimmed mean	4.352	3	166	.006
FMeasure	Based on Mean	1.883	3	166	.134
	Based on Median	.605	3	166	.612
	Based on Median and with adjusted df	.605	3	134.178	.613
	Based on trimmed mean	1.452	3	166	.229
Duration	Based on Mean	60.030	3	166	.000
	Based on Median	24.918	3	166	.000
	Based on Median and with adjusted df	24.918	3	60.724	.000
	Based on trimmed mean	50.824	3	166	.000
FirstActDet	Based on Mean	27.722	3	166	.000
	Based on Median	7.774	3	166	.000
	Based on Median and with adjusted df	7.774	3	104.699	.000
	Based on trimmed mean	23.791	3	166	.000
LastActDet	Based on Mean	25.684	3	166	.000
	Based on Median	18.803	3	166	.000
	Based on Median and with adjusted df	18.803	3	61.415	.000
	Based on trimmed mean	22.961	3	166	.000
ProcDur	Based on Mean	47.401	3	166	.000
	Based on Median	40.224	3	166	.000
	Based on Median and with adjusted df	40.224	3	50.116	.000
	Based on trimmed mean	42.908	3	166	.000
FixRel	Based on Mean	.475	3	166	.700
	Based on Median	.292	3	166	.831
	Based on Median and with adjusted df	.292	3	162.844	.831
	Based on trimmed mean	.505	3	166	.679
FixIrrel	Based on Mean	300.800	3	166	.000
	Based on Median	76.593	3	166	.000
	Based on Median and with adjusted df	76.593	3	39.385	.000
	Based on trimmed mean	270.321	3	166	.000
AvDurRelFix	Based on Mean	39.586	3	166	.000
	Based on Median	24.171	3	166	.000
	Based on Median and with adjusted df	24.171	3	52.220	.000
	Based on trimmed mean	34.390	3	166	.000
AvDurIrrelFix	Based on Mean	15.066	3	166	.000
	Based on Median	10.193	3	166	.000
	Based on Median and with adjusted df	10.193	3	65.560	.000

TotSac	Based on trimmed mean	13.341	3	166	.000
	Based on Mean	.774	3	166	.510
	Based on Median	.849	3	166	.469
	Based on Median and with adjusted df	.849	3	164.093	.469
	Based on trimmed mean	.780	3	166	.507
Sac2Key	Based on Mean	.580	3	166	.629
	Based on Median	.605	3	166	.612
	Based on Median and with adjusted df	.605	3	165.224	.612
	Based on trimmed mean	.590	3	166	.623
AvAttention	Based on Mean	3.175	3	166	.026
	Based on Median	2.830	3	166	.040
	Based on Median and with adjusted df	2.830	3	162.026	.040
	Based on trimmed mean	3.224	3	166	.024
AvMentWL	Based on Mean	.658	3	166	.579
	Based on Median	.609	3	166	.610
	Based on Median and with adjusted df	.609	3	165.136	.610
	Based on trimmed mean	.647	3	166	.586
AvFam	Based on Mean	.441	3	166	.724
	Based on Median	.171	3	166	.916
	Based on Median and with adjusted df	.171	3	132.188	.916
	Based on trimmed mean	.366	3	166	.778
AvSCL	Based on Mean	1.464	3	166	.226
	Based on Median	1.103	3	166	.350
	Based on Median and with adjusted df	1.103	3	164.365	.350
	Based on trimmed mean	1.445	3	166	.232
HRVar_RMSSD	Based on Mean	.720	3	166	.541
	Based on Median	.657	3	166	.580
	Based on Median and with adjusted df	.657	3	156.398	.580
	Based on trimmed mean	.759	3	166	.519
HRVar_NN50	Based on Mean	.253	3	166	.859
	Based on Median	.355	3	166	.786
	Based on Median and with adjusted df	.355	3	136.976	.786
	Based on trimmed mean	.290	3	166	.833
NASA_MD	Based on Mean	2.538	3	166	.058
	Based on Median	2.513	3	166	.060
	Based on Median and with adjusted df	2.513	3	116.118	.062
	Based on trimmed mean	2.979	3	166	.033
NASA_PD	Based on Mean	9.022	3	166	.000
	Based on Median	2.278	3	166	.081
	Based on Median and with adjusted df	2.278	3	159.270	.082
	Based on trimmed mean	8.101	3	166	.000
NASA_TD	Based on Mean	8.149	3	166	.000
	Based on Median	4.266	3	166	.006
	Based on Median and with adjusted df	4.266	3	142.212	.006
	Based on trimmed mean	7.983	3	166	.000
NASA_Performance	Based on Mean	5.903	3	166	.001

	Based on Median	3.921	3	166	.010
	Based on Median and with adjusted df	3.921	3	150.785	.010
	Based on trimmed mean	5.836	3	166	.001
NASA_Effort	Based on Mean	1.264	3	166	.288
	Based on Median	1.384	3	166	.250
	Based on Median and with adjusted df	1.384	3	151.100	.250
	Based on trimmed mean	1.232	3	166	.300
NASA_Frustration	Based on Mean	2.291	3	166	.080
	Based on Median	1.307	3	166	.274
	Based on Median and with adjusted df	1.307	3	138.965	.275
	Based on trimmed mean	2.169	3	166	.094
NASA_Score	Based on Mean	5.276	3	166	.002
	Based on Median	3.966	3	166	.009
	Based on Median and with adjusted df	3.966	3	110.805	.010
	Based on trimmed mean	5.321	3	166	.002

Test of Homogeneity of Variances - i\* and use cases, understanding task

		Levene Statistic	df1	df2	Sig.
Precision	Based on Mean	4.107	3	156	.008
	Based on Median	4.059	3	156	.008
	Based on Median and with adjusted df	4.059	3	140.450	.008
	Based on trimmed mean	4.082	3	156	.008
Recall	Based on Mean	4.506	3	156	.005
	Based on Median	5.656	3	156	.001
	Based on Median and with adjusted df	5.656	3	129.017	.001
	Based on trimmed mean	4.629	3	156	.004
FMeasure	Based on Mean	1.196	3	156	.313
	Based on Median	1.627	3	156	.185
	Based on Median and with adjusted df	1.627	3	133.144	.186
	Based on trimmed mean	1.396	3	156	.246
Duration	Based on Mean	26.219	3	156	.000
	Based on Median	11.093	3	156	.000
	Based on Median and with adjusted df	11.093	3	109.381	.000
	Based on trimmed mean	22.519	3	156	.000
FirstActDet	Based on Mean	23.926	3	156	.000
	Based on Median	8.191	3	156	.000
	Based on Median and with adjusted df	8.191	3	93.807	.000
	Based on trimmed mean	22.001	3	156	.000
LastActDet	Based on Mean	20.983	3	156	.000
	Based on Median	8.682	3	156	.000
	Based on Median and with adjusted df	8.682	3	107.960	.000
	Based on trimmed mean	18.094	3	156	.000
ProcDur	Based on Mean	5.152	3	156	.002
	Based on Median	3.145	3	156	.027
	Based on Median and with adjusted df	3.145	3	152.897	.027
	Based on trimmed mean	5.493	3	156	.001
FixRel	Based on Mean	.217	3	156	.885
	Based on Median	.137	3	156	.938
	Based on Median and with adjusted df	.137	3	155.034	.938
	Based on trimmed mean	.252	3	156	.860
FixIrrel	Based on Mean	200.989	3	156	.000
	Based on Median	97.914	3	156	.000
	Based on Median and with adjusted df	97.914	3	56.536	.000
	Based on trimmed mean	186.357	3	156	.000
AvDurRelFix	Based on Mean	.499	3	156	.683
	Based on Median	.376	3	156	.770
	Based on Median and with adjusted df	.376	3	128.045	.770
	Based on trimmed mean	.448	3	156	.719
AvDurIrrelFix	Based on Mean	1.104	3	156	.350
	Based on Median	.422	3	156	.738
	Based on Median and with adjusted df	.422	3	118.142	.738

TotSac	Based on trimmed mean	.874	3	156	.456
	Based on Mean	.512	3	156	.674
	Based on Median	.615	3	156	.606
	Based on Median and with adjusted df	.615	3	150.781	.606
	Based on trimmed mean	.526	3	156	.665
Sac2Key	Based on Mean	.484	3	156	.694
	Based on Median	.451	3	156	.717
	Based on Median and with adjusted df	.451	3	154.655	.717
	Based on trimmed mean	.521	3	156	.669
	Based on Mean	1.468	3	156	.226
AvAttention	Based on Median	1.849	3	156	.141
	Based on Median and with adjusted df	1.849	3	155.245	.141
	Based on trimmed mean	1.407	3	156	.243
	Based on Mean	3.282	3	156	.023
	Based on Median	3.584	3	156	.015
AvMentWL	Based on Median and with adjusted df	3.584	3	142.335	.015
	Based on trimmed mean	3.270	3	156	.023
	Based on Mean	1.292	3	156	.279
	Based on Median	1.531	3	156	.209
	Based on Median and with adjusted df	1.531	3	147.987	.209
AvFam	Based on trimmed mean	1.216	3	156	.306
	Based on Mean	.643	3	156	.589
	Based on Median	.604	3	156	.614
	Based on Median and with adjusted df	.604	3	143.558	.614
	Based on trimmed mean	.658	3	156	.579
HRVar_RMSSD	Based on Mean	1.793	3	156	.151
	Based on Median	.542	3	156	.654
	Based on Median and with adjusted df	.542	3	150.635	.654
	Based on trimmed mean	1.804	3	156	.149
	Based on Mean	.325	3	156	.807
HRVar_NN50	Based on Median	.154	3	156	.927
	Based on Median and with adjusted df	.154	3	151.718	.927
	Based on trimmed mean	.370	3	156	.775
	Based on Mean	.063	3	156	.979
	Based on Median	.024	3	156	.995
NASA_MD	Based on Median and with adjusted df	.024	3	154.590	.995
	Based on trimmed mean	.090	3	156	.965
	Based on Mean	11.681	3	156	.000
	Based on Median	2.293	3	156	.080
	Based on Median and with adjusted df	2.293	3	140.639	.081
NASA_PD	Based on trimmed mean	9.904	3	156	.000
	Based on Mean	5.372	3	156	.002
	Based on Median	2.981	3	156	.033
	Based on Median and with adjusted df	2.981	3	147.347	.033
	Based on trimmed mean	5.093	3	156	.002
NASA_TD	Based on Mean	6.970	3	156	.000
NASA_Performance	Based on Mean				



	Based on Median	5.802	3	156	.001
	Based on Median and with adjusted df	5.802	3	149.598	.001
	Based on trimmed mean	7.036	3	156	.000
NASA_Effort	Based on Mean	.048	3	156	.986
	Based on Median	.034	3	156	.992
	Based on Median and with adjusted df	.034	3	153.924	.992
	Based on trimmed mean	.048	3	156	.986
NASA_Frustration	Based on Mean	.937	3	156	.424
	Based on Median	.846	3	156	.471
	Based on Median and with adjusted df	.846	3	138.392	.471
	Based on trimmed mean	.861	3	156	.463
NASA_Score	Based on Mean	3.032	3	156	.031
	Based on Median	1.872	3	156	.137
	Based on Median and with adjusted df	1.872	3	129.441	.138
	Based on trimmed mean	2.782	3	156	.043

# Test of Homogeneity of Variances - i\* and use cases, reviewing task

		Levene Statistic	df1	df2	Sig.
Precision	Based on Mean	.525	3	156	.666
	Based on Median	.553	3	156	.647
	Based on Median and with adjusted df	.553	3	132.304	.647
	Based on trimmed mean	.371	3	156	.774
Recall	Based on Mean	3.382	3	156	.020
	Based on Median	1.472	3	156	.224
	Based on Median and with adjusted df	1.472	3	81.095	.228
	Based on trimmed mean	2.489	3	156	.062
FMeasure	Based on Mean	2.875	3	156	.038
	Based on Median	.919	3	156	.433
	Based on Median and with adjusted df	.919	3	81.773	.436
	Based on trimmed mean	1.794	3	156	.151
Duration	Based on Mean	201.388	3	156	.000
	Based on Median	159.717	3	156	.000
	Based on Median and with adjusted df	159.717	3	60.643	.000
	Based on trimmed mean	198.214	3	156	.000
FirstActDet	Based on Mean	35.047	3	156	.000
	Based on Median	25.293	3	156	.000
	Based on Median and with adjusted df	25.293	3	110.804	.000
	Based on trimmed mean	34.753	3	156	.000
LastActDet	Based on Mean	154.937	3	156	.000
	Based on Median	91.270	3	156	.000
	Based on Median and with adjusted df	91.270	3	48.457	.000
	Based on trimmed mean	154.710	3	156	.000
ProcDur	Based on Mean	51.902	3	156	.000
	Based on Median	50.755	3	156	.000
	Based on Median and with adjusted df	50.755	3	39.722	.000
	Based on trimmed mean	52.013	3	156	.000
FixRel	Based on Mean	1.509	3	156	.214
	Based on Median	.713	3	156	.546
	Based on Median and with adjusted df	.713	3	151.921	.546
	Based on trimmed mean	1.542	3	156	.206
FixIrrel	Based on Mean	298.977	3	156	.000
	Based on Median	76.942	3	156	.000
	Based on Median and with adjusted df	76.942	3	39.345	.000
	Based on trimmed mean	276.859	3	156	.000
AvDurRelFix	Based on Mean	58.618	3	156	.000
	Based on Median	57.036	3	156	.000
	Based on Median and with adjusted df	57.036	3	43.862	.000
	Based on trimmed mean	58.587	3	156	.000
AvDurIrrelFix	Based on Mean	16.250	3	156	.000
	Based on Median	13.143	3	156	.000
	Based on Median and with adjusted df	13.143	3	65.124	.000

TotSac	Based on trimmed mean	15.411	3	156	.000
	Based on Mean	.198	3	156	.898
	Based on Median	.190	3	156	.903
	Based on Median and with adjusted df	.190	3	154.877	.903
	Based on trimmed mean	.197	3	156	.898
Sac2Key	Based on Mean	2.240	3	156	.086
	Based on Median	2.155	3	156	.096
	Based on Median and with adjusted df	2.155	3	152.386	.096
	Based on trimmed mean	2.463	3	156	.065
AvAttention	Based on Mean	4.057	3	156	.008
	Based on Median	3.549	3	156	.016
	Based on Median and with adjusted df	3.549	3	145.433	.016
	Based on trimmed mean	4.106	3	156	.008
AvMentWL	Based on Mean	6.301	3	156	.000
	Based on Median	6.133	3	156	.001
	Based on Median and with adjusted df	6.133	3	145.357	.001
	Based on trimmed mean	6.363	3	156	.000
AvFam	Based on Mean	3.154	3	156	.027
	Based on Median	2.722	3	156	.046
	Based on Median and with adjusted df	2.722	3	146.077	.047
	Based on trimmed mean	3.226	3	156	.024
AvSCL	Based on Mean	1.128	3	156	.339
	Based on Median	.929	3	156	.428
	Based on Median and with adjusted df	.929	3	152.973	.428
	Based on trimmed mean	1.078	3	156	.360
HRVar_RMSSD	Based on Mean	1.129	3	156	.339
	Based on Median	.553	3	156	.647
	Based on Median and with adjusted df	.553	3	152.834	.647
	Based on trimmed mean	1.169	3	156	.323
HRVar_NN50	Based on Mean	.023	3	156	.995
	Based on Median	.020	3	156	.996
	Based on Median and with adjusted df	.020	3	150.189	.996
	Based on trimmed mean	.021	3	156	.996
NASA_MD	Based on Mean	2.493	3	156	.062
	Based on Median	2.417	3	156	.068
	Based on Median and with adjusted df	2.417	3	149.784	.069
	Based on trimmed mean	2.547	3	156	.058
NASA_PD	Based on Mean	4.192	3	156	.007
	Based on Median	.993	3	156	.398
	Based on Median and with adjusted df	.993	3	144.622	.398
	Based on trimmed mean	4.082	3	156	.008
NASA_TD	Based on Mean	5.802	3	156	.001
	Based on Median	2.454	3	156	.065
	Based on Median and with adjusted df	2.454	3	139.426	.066
	Based on trimmed mean	5.476	3	156	.001
NASA_Performance	Based on Mean	3.258	3	156	.023

	Based on Median	1.840	3	156	.142
	Based on Median and with adjusted df	1.840	3	135.740	.143
	Based on trimmed mean	3.106	3	156	.028
NASA_Effort	Based on Mean	1.640	3	156	.182
	Based on Median	1.083	3	156	.358
	Based on Median and with adjusted df	1.083	3	126.191	.359
	Based on trimmed mean	1.555	3	156	.203
NASA_Frustration	Based on Mean	2.096	3	156	.103
	Based on Median	1.913	3	156	.130
	Based on Median and with adjusted df	1.913	3	113.009	.132
	Based on trimmed mean	1.752	3	156	.159
NASA_Score	Based on Mean	5.745	3	156	.001
	Based on Median	3.766	3	156	.012
	Based on Median and with adjusted df	3.766	3	143.744	.012
	Based on trimmed mean	5.629	3	156	.001