

Summary of Correlation Analysis

July 18, 2018

1 Gains in Skill/Knowledge and Motivation

Table 1: Correlation matrix of Gains in Skill/Knowledge and Motivation between motivation factors and in the third empirical study

round	Gains in Skill/Knowledge	Intrinsic Motivation	Interest/Enjoyment	Perceived Choice	Pressure/Tension	Effort/Importance
Gains in Skill/Knowledge	1.0000	-0.0387	-0.2761	0.0681	0.0845	0.2336
Intrinsic Motivation	-0.0387	1.0000	0.5719	0.7804	-0.4514	0.3574
Interest/Enjoyment	-0.2761	0.5719	1.0000	0.2813	0.0205	-0.0995
Perceived Choice	0.0681	0.7804	0.2813	1.0000	-0.3622	0.1183
Pressure/Tension	0.0845	-0.4514	0.0205	-0.3622	1.0000	-0.1196
Effort/Importance	0.2336	0.3574	-0.0995	0.1183	-0.1196	1.0000
Level of Motivation	-0.0745	0.6146	0.7473	0.3690	0.0612	0.1801
Attention	-0.1175	0.3167	0.6965	0.1383	0.1945	-0.0681
Relevance	0.1354	0.6683	0.2263	0.5547	-0.3265	0.2608
Satisfaction	0.0212	0.6182	0.6293	0.3732	0.0744	0.3181

method: spearman

Table 2: Correlation matrix with p-values of Gains in Skill/Knowledge and Motivation between motivation factors and in the third empirical study

round	Gains in Skill/Knowledge	Intrinsic Motivation	Interest/Enjoyment	Perceived Choice	Pressure/Tension	Effort/Importance	L
Gains in Skill/Knowledge	0.0000	0.7983	0.0632	0.6530	0.5766	0.1182	0.1182
Intrinsic Motivation	0.7983	0.0000	0.0000	0.0000	0.0016	0.0147	0.0147
Interest/Enjoyment	0.0632	0.0000	0.0000	0.0582	0.8926	0.5106	0.5106
Perceived Choice	0.6530	0.0000	0.0582	0.0000	0.0134	0.4334	0.4334
Pressure/Tension	0.5766	0.0016	0.8926	0.0134	0.0000	0.4286	0.4286
Effort/Importance	0.1182	0.0147	0.5106	0.4334	0.4286	0.0000	0.0000
Level of Motivation	0.6227	0.0000	0.0000	0.0116	0.6863	0.2311	0.2311
Attention	0.4369	0.0320	0.0000	0.3593	0.1952	0.6528	0.6528
Relevance	0.3698	0.0000	0.1304	0.0001	0.0268	0.0800	0.0800
Satisfaction	0.8889	0.0000	0.0000	0.0106	0.6231	0.0312	0.0312

method: spearman

2 Gains in Skill/Knowledge and Motivation for the group ont-gamified

Table 3: Correlation matrix of Gains in Skill/Knowledge and Motivation for the group ont-gamified between motivation factors and in the third empirical study

round	Gains in Skill/Knowledge	Intrinsic Motivation	Interest/Enjoyment	Perceived Choice	Pressure/Tension	Effort/Importance	L
Gains in Skill/Knowledge	1.0000	0.0753	-0.1743	0.0806	-0.0678	0.2440	0.2440
Intrinsic Motivation	0.0753	1.0000	0.5411	0.8047	-0.1981	0.2644	0.2644
Interest/Enjoyment	-0.1743	0.5411	1.0000	0.1580	0.2587	-0.1704	-0.1704
Perceived Choice	0.0806	0.8047	0.1580	1.0000	-0.3037	0.1172	0.1172
Pressure/Tension	-0.0678	-0.1981	0.2587	-0.3037	1.0000	-0.0484	-0.0484
Effort/Importance	0.2440	0.2644	-0.1704	0.1172	-0.0484	1.0000	1.0000
Level of Motivation	0.0857	0.5593	0.7890	0.2363	0.4104	0.1460	0.1460
Attention	0.0390	0.4342	0.8138	0.1021	0.4061	-0.0056	-0.0056
Relevance	0.0749	0.7135	0.2769	0.6849	-0.1862	-0.1355	-0.1355
Satisfaction	0.2308	0.4454	0.6163	0.1741	0.5129	0.3458	0.3458

method: spearman

Table 4: Correlation matrix with p-values of Gains in Skill/Knowledge and Motivation for the group ont-gamified between motivation factors and in the third empirical study

round	Gains in Skill/Knowledge	Intrinsic Motivation	Interest/Enjoyment	Perceived Choice	Pressure/Tension	Effort/Importance	L
Gains in Skill/Knowledge	0.0000	0.7454	0.4500	0.7284	0.7704	0.2864	0.2864
Intrinsic Motivation	0.7454	0.0000	0.0113	0.0000	0.3893	0.2469	0.2469
Interest/Enjoyment	0.4500	0.0113	0.0000	0.4939	0.2575	0.4602	0.4602
Perceived Choice	0.7284	0.0000	0.4939	0.0000	0.1808	0.6129	0.6129
Pressure/Tension	0.7704	0.3893	0.2575	0.1808	0.0000	0.8350	0.8350
Effort/Importance	0.2864	0.2469	0.4602	0.6129	0.8350	0.0000	0.0000
Level of Motivation	0.7117	0.0084	0.0000	0.3023	0.0646	0.5277	0.5277
Attention	0.8667	0.0492	0.0000	0.6595	0.0678	0.9808	0.9808
Relevance	0.7470	0.0003	0.2244	0.0006	0.4190	0.5582	0.5582
Satisfaction	0.3141	0.0430	0.0029	0.4504	0.0174	0.1246	0.1246

method: spearman

3 Gains in Skill/Knowledge and Motivation for the group w/o-gamified

Table 5: Correlation matrix of Gains in Skill/Knowledge and Motivation for the group w/o-gamified between motivation factors and in the third empirical study

round	Gains in Skill/Knowledge	Intrinsic Motivation	Interest/Enjoyment	Perceived Choice	Pressure/Tension	Effort/Importance	L
Gains in Skill/Knowledge	1.0000	-0.3489	-0.5229	-0.1528	0.3022		0.0237
Intrinsic Motivation	-0.3489	1.0000	0.6022	0.7306	-0.6753		0.3322
Interest/Enjoyment	-0.5229	0.6022	1.0000	0.3371	-0.1730		0.0019
Perceived Choice	-0.1528	0.7306	0.3371	1.0000	-0.4735		-0.0806
Pressure/Tension	0.3022	-0.6753	-0.1730	-0.4735	1.0000		-0.1244
Effort/Importance	0.0237	0.3322	0.0019	-0.0806	-0.1244		1.0000
Level of Motivation	-0.3617	0.6543	0.6990	0.4376	-0.2626		0.2736
Attention	-0.2876	0.3059	0.6219	0.2384	-0.0015		0.0369
Relevance	0.0379	0.6238	0.1290	0.3839	-0.5435		0.3852
Satisfaction	-0.4126	0.7364	0.6586	0.4328	-0.3437		0.3006
method: spearman							

Table 6: Correlation matrix with p-values of Gains in Skill/Knowledge and Motivation for the group w/o-gamified between motivation factors and in the third empirical study

round	Gains in Skill/Knowledge	Intrinsic Motivation	Interest/Enjoyment	Perceived Choice	Pressure/Tension	Effort/Importance	L
Gains in Skill/Knowledge	0.0000	0.0874	0.0073	0.4658	0.1421		0.9103
Intrinsic Motivation	0.0874	0.0000	0.0014	0.0000	0.0002		0.1047
Interest/Enjoyment	0.0073	0.0014	0.0000	0.0993	0.4082		0.9927
Perceived Choice	0.4658	0.0000	0.0993	0.0000	0.0168		0.7016
Pressure/Tension	0.1421	0.0002	0.4082	0.0168	0.0000		0.5536
Effort/Importance	0.9103	0.1047	0.9927	0.7016	0.5536		0.0000
Level of Motivation	0.0756	0.0004	0.0001	0.0287	0.2048		0.1857
Attention	0.1632	0.1370	0.0009	0.2511	0.9941		0.8608
Relevance	0.8571	0.0009	0.5387	0.0581	0.0050		0.0572
Satisfaction	0.0404	0.0000	0.0003	0.0307	0.0925		0.1443

method: spearman

4 Gains in Skill/Knowledge and Motivation for the group Apprentice

Table 7: Correlation matrix of Gains in Skill/Knowledge and Motivation for the group Apprentice between motivation factors and in the third empirical study

round	Gains in Skill/Knowledge	Intrinsic Motivation	Interest/Enjoyment	Perceived Choice	Pressure/Tension	Effort/Importance	L
Gains in Skill/Knowledge	1.0000	-0.1482	-0.3262	-0.0853	0.1641		0.1264
Intrinsic Motivation	-0.1482	1.0000	0.6225	0.7542	-0.3550		0.3817
Interest/Enjoyment	-0.3262	0.6225	1.0000	0.2415	-0.0142		-0.0940
Perceived Choice	-0.0853	0.7542	0.2415	1.0000	-0.3343		0.1597
Pressure/Tension	0.1641	-0.3550	-0.0142	-0.3343	1.0000		-0.1216
Effort/Importance	0.1264	0.3817	-0.0940	0.1597	-0.1216		1.0000
Level of Motivation	-0.1221	0.6716	0.7721	0.3487	0.0526		0.1709
Attention	-0.1367	0.3851	0.7502	0.1121	0.1541		-0.1000
Relevance	0.0802	0.6293	0.2153	0.5275	-0.2013		0.1884
Satisfaction	0.0143	0.7112	0.6901	0.3776	0.0850		0.3614

method: spearman

Table 8: Correlation matrix with p-values of Gains in Skill/Knowledge and Motivation for the group Apprentice between motivation factors and in the third empirical study

round	Gains in Skill/Knowledge	Intrinsic Motivation	Interest/Enjoyment	Perceived Choice	Pressure/Tension	Effort/Importance	L
Gains in Skill/Knowledge	0.0000	0.4184	0.0684	0.6426	0.3694	0.4905	0.4905
Intrinsic Motivation	0.4184	0.0000	0.0001	0.0000	0.0462	0.0311	0.0311
Interest/Enjoyment	0.0684	0.0001	0.0000	0.1830	0.9387	0.6089	0.6089
Perceived Choice	0.6426	0.0000	0.1830	0.0000	0.0615	0.3825	0.3825
Pressure/Tension	0.3694	0.0462	0.9387	0.0615	0.0000	0.5074	0.5074
Effort/Importance	0.4905	0.0311	0.6089	0.3825	0.5074	0.0000	0.0000
Level of Motivation	0.5056	0.0000	0.0000	0.0505	0.7751	0.3496	0.3496
Attention	0.4557	0.0295	0.0000	0.5414	0.3996	0.5859	0.5859
Relevance	0.6626	0.0001	0.2367	0.0019	0.2691	0.3018	0.3018
Satisfaction	0.9380	0.0000	0.0000	0.0331	0.6435	0.0421	0.0421
method: spearman							

5 Gains in Skill/Knowledge and Motivation for the group Master

Table 9: Correlation matrix of Gains in Skill/Knowledge and Motivation for the group Master between motivation factors and in the third empirical study

round	Gains in Skill/Knowledge	Intrinsic Motivation	Interest/Enjoyment	Perceived Choice	Pressure/Tension	Effort/Importance	L
Gains in Skill/Knowledge	1.0000	0.3168	0.0265	0.5347	-0.5118	0.2343	0.2343
Intrinsic Motivation	0.3168	1.0000	0.4229	0.7731	-0.6452	0.4614	0.4614
Interest/Enjoyment	0.0265	0.4229	1.0000	0.4029	0.2226	-0.0199	-0.0199
Perceived Choice	0.5347	0.7731	0.4029	1.0000	-0.4810	0.0288	0.0288
Pressure/Tension	-0.5118	-0.6452	0.2226	-0.4810	1.0000	-0.4171	-0.4171
Effort/Importance	0.2343	0.4614	-0.0199	0.0288	-0.4171	1.0000	1.0000
Level of Motivation	0.2126	0.4070	0.7233	0.5138	0.1084	0.0950	0.0950
Attention	0.0033	0.0397	0.4972	0.1867	0.4491	0.0266	0.0266
Relevance	0.3642	0.8027	0.1680	0.5967	-0.5577	0.5670	0.5670
Satisfaction	0.0553	0.3978	0.5150	0.4164	-0.1223	0.0999	0.0999
method: spearman							

Table 10: Correlation matrix with p-values of Gains in Skill/Knowledge and Motivation for the group Master between motivation factors and in the third empirical study

round	Gains in Skill/Knowledge	Intrinsic Motivation	Interest/Enjoyment	Perceived Choice	Pressure/Tension	Effort/Importance	L
Gains in Skill/Knowledge	0.0000	0.2697	0.9285	0.0488	0.0614	0.4202	0.4202
Intrinsic Motivation	0.2697	0.0000	0.1319	0.0012	0.0127	0.0968	0.0968
Interest/Enjoyment	0.9285	0.1319	0.0000	0.1532	0.4443	0.9461	0.9461
Perceived Choice	0.0488	0.0012	0.0000	0.0000	0.0816	0.9222	0.9222
Pressure/Tension	0.0614	0.0127	0.4443	0.0816	0.0000	0.1379	0.1379
Effort/Importance	0.4202	0.0968	0.9461	0.9222	0.1379	0.0000	0.0000
Level of Motivation	0.4657	0.1486	0.0035	0.0602	0.7122	0.7466	0.7466
Attention	0.9910	0.8928	0.0704	0.5227	0.1072	0.9281	0.9281
Relevance	0.2004	0.0005	0.5660	0.0243	0.0382	0.0345	0.0345
Satisfaction	0.8510	0.1590	0.0595	0.1386	0.6769	0.7340	0.7340
method: spearman							

6 Gains in Skill/Knowledge and Motivation for the group ont-gamified.Apprentice

Table 11: Correlation matrix of Gains in Skill/Knowledge and Motivation for the group ont-gamified.Apprentice between motivation factors and in the third empirical study

round	Gains in Skill/Knowledge	Intrinsic Motivation	Interest/Enjoyment	Perceived Choice	Pressure/Tension	Effort/Importance	L
Gains in Skill/Knowledge	1.0000	-0.2659	-0.0687	-0.1720	0.1545	-0.1879	-0.1879
Intrinsic Motivation	-0.2659	1.0000	0.6541	0.7652	0.4746	0.2305	0.2305
Interest/Enjoyment	-0.0687	0.6541	1.0000	0.1802	0.6303	0.0474	0.0474
Perceived Choice	-0.1720	0.7652	0.1802	1.0000	0.1406	-0.0505	-0.0505
Pressure/Tension	0.1545	0.4746	0.6303	0.1406	1.0000	0.0865	0.0865
Effort/Importance	-0.1879	0.2305	0.0474	-0.0505	0.0865	1.0000	1.0000
Level of Motivation	0.0990	0.6315	0.8591	0.2638	0.7702	0.1086	0.1086
Attention	0.0968	0.5435	0.9301	0.1071	0.7083	0.0325	0.0325
Relevance	-0.0597	0.6195	0.2634	0.5794	0.5022	-0.2061	-0.2061
Satisfaction	0.1257	0.6417	0.8343	0.2511	0.7497	0.1852	0.1852
method: spearman							

Table 12: Correlation matrix with p-values of Gains in Skill/Knowledge and Motivation for the group out-gamified.Apprentice between motivation factors and in the third empirical study

round	Gains in Skill/Knowledge	Intrinsic Motivation	Interest/Enjoyment	Perceived Choice	Pressure/Tension	Effort/Importance	L
Gains in Skill/Knowledge	0.0000	0.3573	0.8154	0.5566	0.5979	0.5199	0.5199
Intrinsic Motivation	0.3573	0.0000	0.0112	0.0014	0.0864	0.4280	0.4280
Interest/Enjoyment	0.8154	0.0112	0.0000	0.5376	0.0157	0.8721	0.8721
Perceived Choice	0.5566	0.0014	0.5376	0.0000	0.6315	0.8638	0.8638
Pressure/Tension	0.5979	0.0864	0.0157	0.6315	0.0000	0.7687	0.7687
Effort/Importance	0.5199	0.4280	0.8721	0.8638	0.7687	0.0000	0.0000
Level of Motivation	0.7363	0.0154	0.0001	0.3621	0.0013	0.7116	0.7116
Attention	0.7420	0.0446	0.0000	0.7156	0.0046	0.9122	0.9122
Relevance	0.8393	0.0181	0.3629	0.0299	0.0672	0.4796	0.4796
Satisfaction	0.6685	0.0134	0.0002	0.3865	0.0020	0.5262	0.5262
method: spearman							

7 Gains in Skill/Knowledge and Motivation for the group ont-gamified.Master

Table 13: Correlation matrix of Gains in Skill/Knowledge and Motivation for the group out-gamified.Master between motivation factors and in the third empirical study

round	Gains in Skill/Knowledge	Intrinsic Motivation	Interest/Enjoyment	Perceived Choice	Pressure/Tension	Effort/Importance	L
Gains in Skill/Knowledge	1.0000	0.8929	-0.1441	0.9286	-0.8895		0.7388
Intrinsic Motivation	0.8929	1.0000	0.0180	0.9643	-0.9636		0.8829
Interest/Enjoyment	-0.1441	0.0180	1.0000	-0.1622	0.0748		0.0636
Perceived Choice	0.9286	0.9643	-0.1622	1.0000	-0.9636		0.8469
Pressure/Tension	-0.8895	-0.9636	0.0748	-0.9636	1.0000		-0.8415
Effort/Importance	0.7388	0.8829	0.0636	0.8469	-0.8415		1.0000
Level of Motivation	0.3214	0.4286	0.4685	0.2857	-0.2594		0.6667
Attention	-0.0180	-0.0180	0.1273	-0.0721	0.2057		0.3000
Relevance	0.7568	0.7748	-0.3455	0.8829	-0.8602		0.5727
Satisfaction	0.4505	0.4505	0.4909	0.3063	-0.2805		0.5636

method: spearman

Table 14: Correlation matrix with p-values of Gains in Skill/Knowledge and Motivation for the group ont-gamified.Master between motivation factors and in the third empirical study

round	Gains in Skill/Knowledge	Intrinsic Motivation	Interest/Enjoyment	Perceived Choice	Pressure/Tension	Effort/Importance	L
Gains in Skill/Knowledge	0.0000	0.0123	0.7578	0.0067	0.0073	0.0579	0.0579
Intrinsic Motivation	0.0123	0.0000	0.9694	0.0028	0.0005	0.0085	0.0085
Interest/Enjoyment	0.7578	0.9694	0.0000	0.7283	0.8734	0.8922	0.8922
Perceived Choice	0.0067	0.0028	0.0000	0.0000	0.0005	0.0162	0.0162
Pressure/Tension	0.0073	0.0005	0.8734	0.0005	0.0000	0.0176	0.0176
Effort/Importance	0.0579	0.0085	0.8922	0.0162	0.0176	0.0000	0.0000
Level of Motivation	0.4976	0.3536	0.2890	0.5560	0.5742	0.1019	0.1019
Attention	0.9694	0.9694	0.7857	0.8780	0.6582	0.5133	0.5133
Relevance	0.0489	0.0408	0.4479	0.0085	0.0130	0.1790	0.1790
Satisfaction	0.3104	0.3104	0.2633	0.5040	0.5423	0.1876	0.1876

8 Gains in Skill/Knowledge and Motivation for the group w/o-gamified.Apprentice

Table 15: Correlation matrix of Gains in Skill/Knowledge and Motivation for the group w/o-gamified.Apprentice between motivation factors and in the third empirical study

round	Gains in Skill/Knowledge	Intrinsic Motivation	Interest/Enjoyment	Perceived Choice	Pressure/Tension	Effort/Importance	L
Gains in Skill/Knowledge	1.0000	-0.2473	-0.7037	-0.1149	0.0866		0.0804
Intrinsic Motivation	-0.2473	1.0000	0.6049	0.7469	-0.9039		0.4071
Interest/Enjoyment	-0.7037	0.6049	1.0000	0.2129	-0.4590		-0.0057
Perceived Choice	-0.1149	0.7469	0.2129	1.0000	-0.7869		0.1300
Pressure/Tension	0.0866	-0.9039	-0.4590	-0.7869	1.0000		-0.2665
Effort/Importance	0.0804	0.4071	-0.0057	0.1300	-0.2665		1.0000
Level of Motivation	-0.4669	0.6846	0.6537	0.3811	-0.6475		0.3648
Attention	-0.4901	0.3294	0.5784	0.1389	-0.3365		0.0698
Relevance	0.1585	0.6712	0.1327	0.4849	-0.7353		0.3685
Satisfaction	-0.3892	0.7465	0.6326	0.3398	-0.6019		0.4109
method: spearman							

Table 16: Correlation matrix with p-values of Gains in Skill/Knowledge and Motivation for the group w/o-gamified. Apprentice between motivation factors and in the third empirical study

round	Gains in Skill/Knowledge	Intrinsic Motivation	Interest/Enjoyment	Perceived Choice	Pressure/Tension	Effort/Importance	L
Gains in Skill/Knowledge	0.0000	0.3225	0.0011	0.6498	0.7325	0.7513	0.7513
Intrinsic Motivation	0.3225	0.0000	0.0078	0.0004	0.0000	0.0936	0.0936
Interest/Enjoyment	0.0011	0.0078	0.0000	0.3963	0.0554	0.9821	0.9821
Perceived Choice	0.6498	0.0004	0.3963	0.0000	0.0001	0.6073	0.6073
Pressure/Tension	0.7325	0.0000	0.0554	0.0001	0.0000	0.2850	0.2850
Effort/Importance	0.7513	0.0936	0.9821	0.6073	0.2850	0.0000	0.0000
Level of Motivation	0.0508	0.0017	0.0033	0.1187	0.0037	0.1366	0.1366
Attention	0.0389	0.1820	0.0119	0.5825	0.1722	0.7833	0.7833
Relevance	0.5300	0.0023	0.5996	0.0414	0.0005	0.1324	0.1324
Satisfaction	0.1104	0.0004	0.0048	0.1678	0.0082	0.0903	0.0903
method: spearman							

9 Gains in Skill/Knowledge and Motivation for the group w/o-gamified.Master

Table 17: Correlation matrix of Gains in Skill/Knowledge and Motivation for the group w/o-gamified.Master between motivation factors and in the third empirical study

round	Gains in Skill/Knowledge	Intrinsic Motivation	Interest/Enjoyment	Perceived Choice	Pressure/Tension	Effort/Importance	L
Gains in Skill/Knowledge	1.0000	-0.6307	0.0545	-0.0091	0.5964	-0.2883	-0.2883
Intrinsic Motivation	-0.6307	1.0000	0.6307	0.3964	-0.1773	0.1071	0.1071
Interest/Enjoyment	0.0545	0.6307	1.0000	0.6364	0.5467	-0.0721	-0.0721
Perceived Choice	-0.0091	0.3964	0.6364	1.0000	0.0994	-0.7207	-0.7207
Pressure/Tension	0.5964	-0.1773	0.5467	0.0994	1.0000	0.1773	0.1773
Effort/Importance	-0.2883	0.1071	-0.0721	-0.7207	0.1773	1.0000	1.0000
Level of Motivation	0.0901	0.5357	0.8829	0.5946	0.6502	-0.0357	-0.0357
Attention	0.2342	0.3571	0.7928	0.4144	0.7881	0.1071	0.1071
Relevance	-0.4220	0.6183	0.1284	-0.1927	-0.1806	0.4910	0.4910
Satisfaction	-0.3784	0.7143	0.7388	0.7748	0.1970	-0.1786	-0.1786
method: spearman							

Table 18: Correlation matrix with p-values of Gains in Skill/Knowledge and Motivation for the group w/o-gamified.Master between motivation factors and in the third empirical study

round	Gains in Skill/Knowledge	Intrinsic Motivation	Interest/Enjoyment	Perceived Choice	Pressure/Tension	Effort/Importance	L
Gains in Skill/Knowledge	0.0000	0.1289	0.9075	0.9846	0.1575		0.5307
Intrinsic Motivation	0.1289	0.0000	0.1289	0.3786	0.7037		0.8397
Interest/Enjoyment	0.9075	0.1289	0.0000	0.1244	0.2041		0.8780
Perceived Choice	0.9846	0.3786	0.1244	0.0000	0.8321		0.0676
Pressure/Tension	0.1575	0.7037	0.2041	0.8321	0.0000		0.7037
Effort/Importance	0.5307	0.8397	0.8780	0.0676	0.7037		0.0000
Level of Motivation	0.8477	0.2357	0.0085	0.1591	0.1139		0.9635
Attention	0.6132	0.4444	0.0334	0.3553	0.0353		0.8397
Relevance	0.3456	0.1389	0.7837	0.6790	0.6984		0.2632
Satisfaction	0.4026	0.0881	0.0579	0.0408	0.6720		0.7131

method: spearman