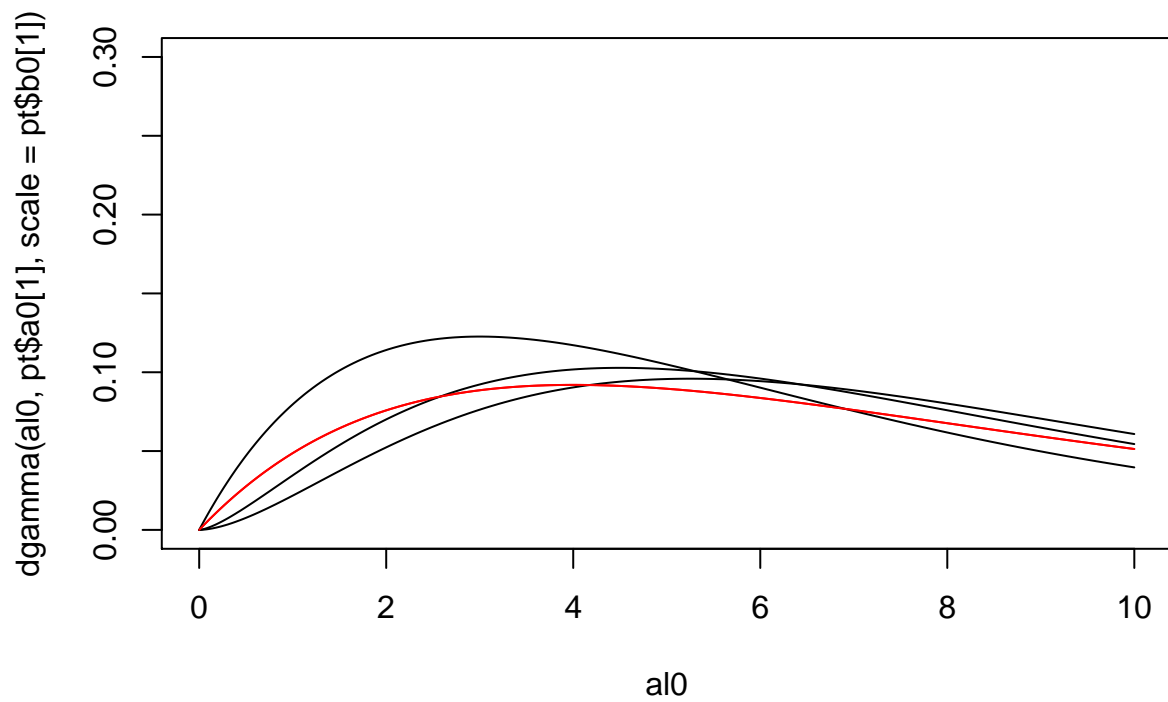


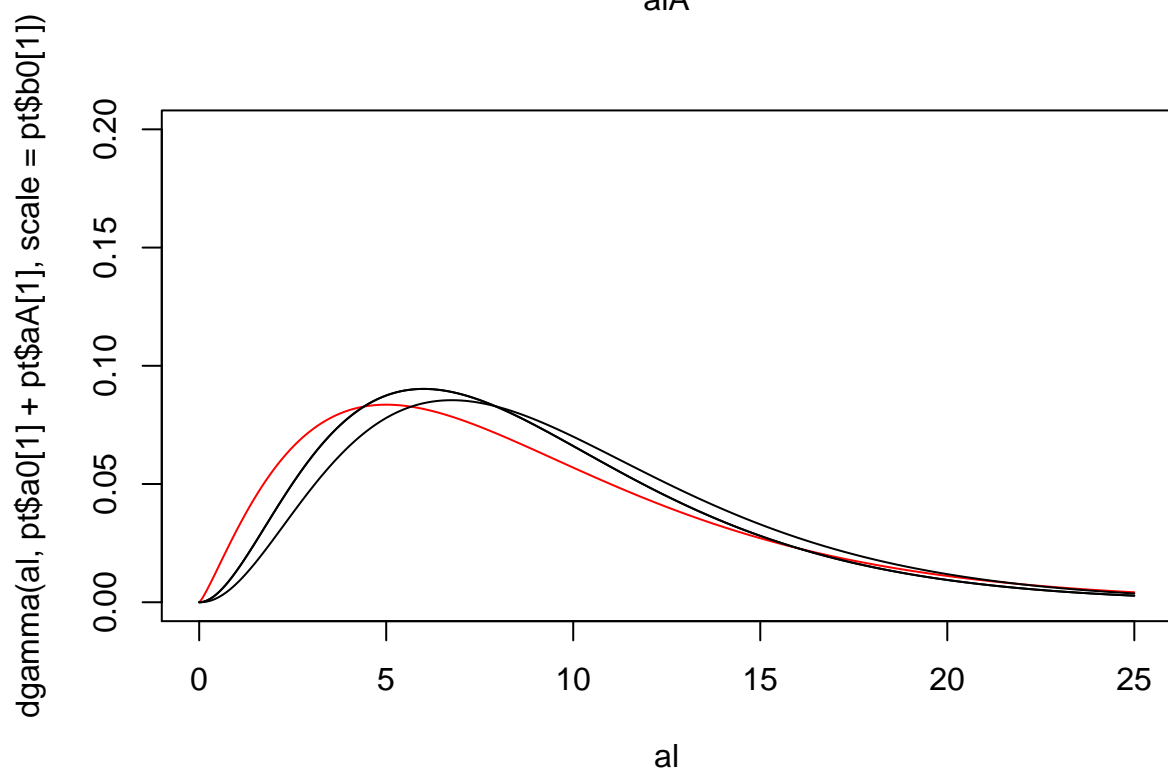
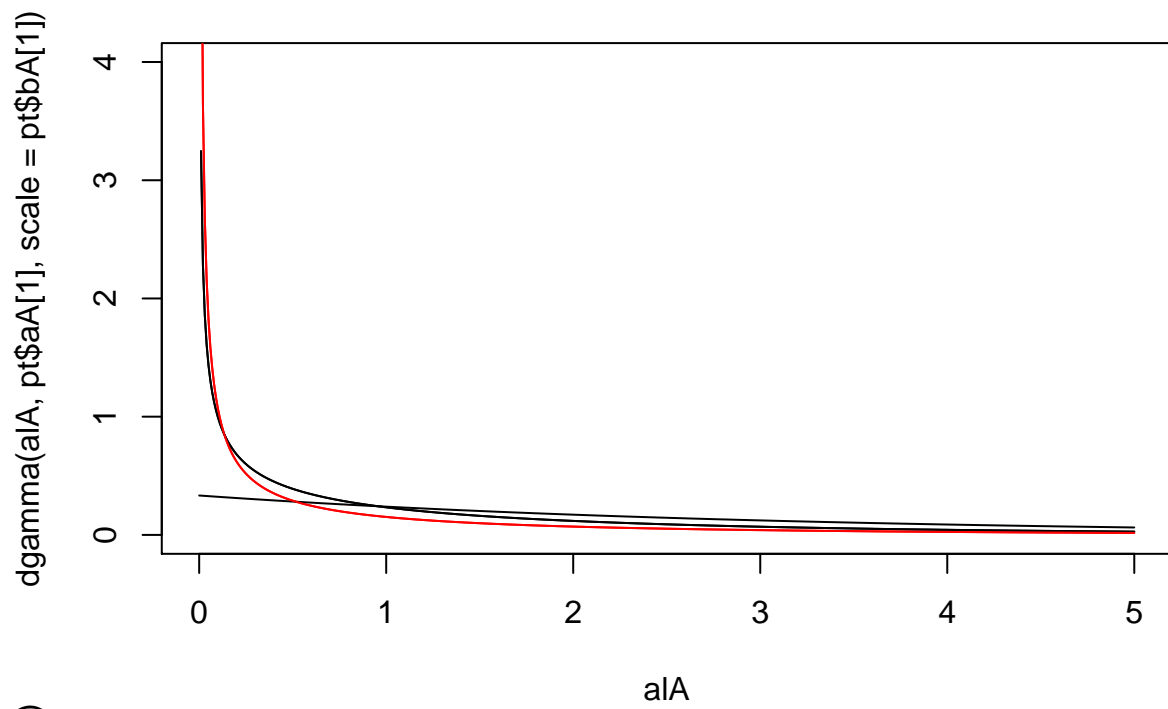
Tables for my own interest, population experiment

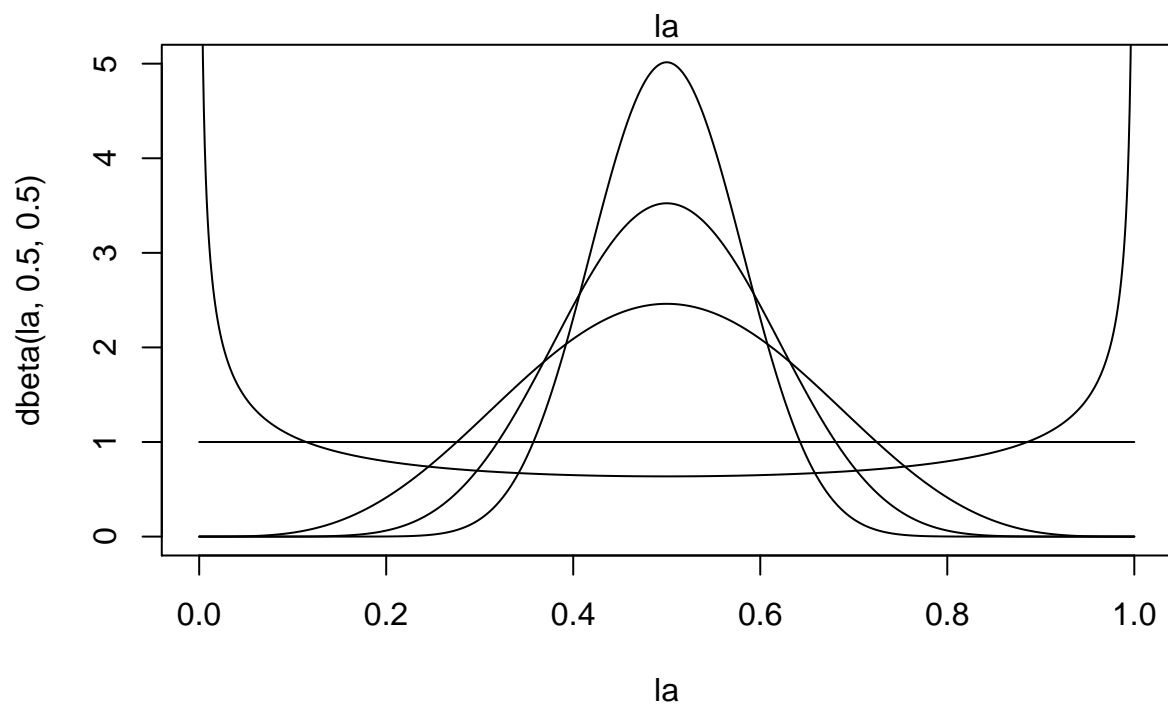
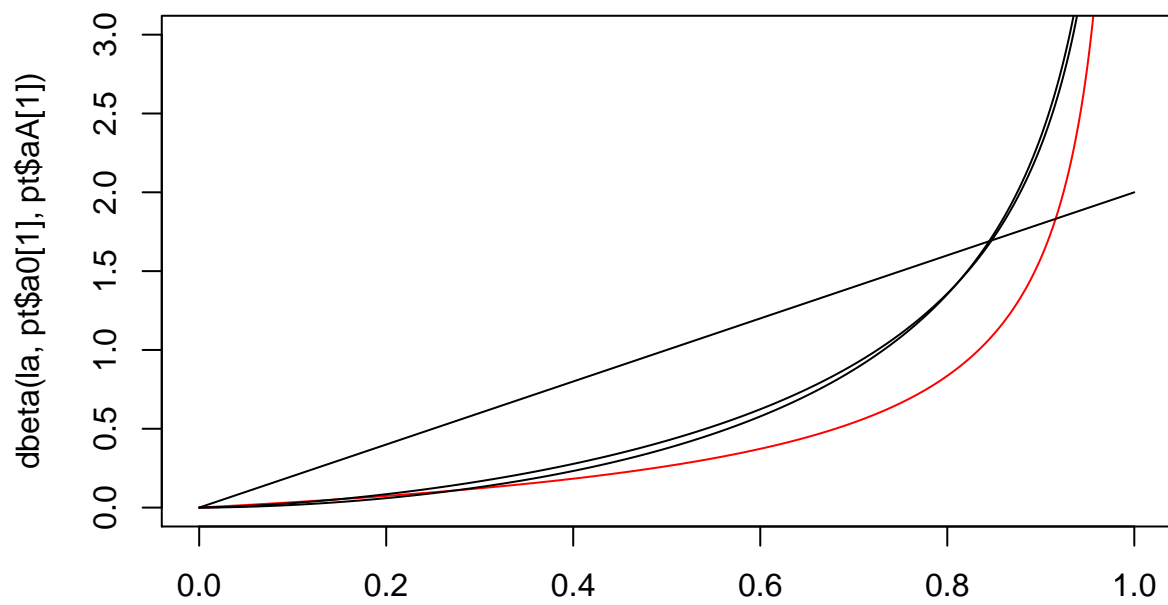
William McCausland

2018-08-08

	a0	b0	aA	bA	Ela	Eal	Val	sdal	Vla	sdla
0	2.00	4	0.25	4	0.889	9.00	36.00	6.000	0.030	0.174
1	2.00	3	1.00	3	0.667	9.00	27.00	5.196	0.056	0.236
2	2.50	3	0.50	3	0.833	9.00	27.00	5.196	0.035	0.186
3	2.75	3	0.50	3	0.846	9.75	29.25	5.408	0.031	0.175







```
#knitr::kable(result.table[,c('B1', 'Be1', 'B2', 'Be2', 'B3', 'Be3', 'B4', 'Be4', 'B5', 'Be5', 'B6', 'B7', 'Be6', 'Be7')], digits=c(2,2,2,2,2,2,2,2,2,2,2,2,2,2,2))
knitr::kable(result.table[,c('B1', 'Be1', 'B2', 'Be2', 'B3', 'Be3')], digits=c(2,2,2,2,2,2))
```

	B1	Be1	B2	Be2	B3	Be3
Prior	1.00	0.00	1.00	0.00	1.00	0.00
Male stars	0.20	0.00	0.66	0.00	1.14	0.00
Female stars	0.48	0.01	0.78	0.01	0.93	0.01
Films	0.27	0.00	0.71	0.00	1.11	0.00
Star pairs	0.29	0.01	0.68	0.00	1.03	0.01
Pizzas	0.39	0.01	0.77	0.01	1.05	0.01
Juices	0.37	0.01	0.77	0.01	1.05	0.01
Colours	0.32	0.01	0.80	0.01	1.19	0.00
Colour Combinations	0.33	0.01	0.65	0.00	0.89	0.01
Events	0.67	0.03	1.04	0.01	1.16	0.00
Radio formats	0.54	0.02	0.97	0.01	1.16	0.00
Musical artists	0.23	0.00	0.64	0.00	1.05	0.01
Aboriginal art	0.40	0.01	0.79	0.01	1.04	0.01
Impressionist art	0.30	0.01	0.73	0.00	1.08	0.00
Sentences	0.26	0.00	0.72	0.00	1.16	0.00
Travel	0.28	0.01	0.75	0.00	1.16	0.00
Marijuana	0.28	0.01	0.75	0.01	1.19	0.00
Latitude	0.38	0.01	0.81	0.01	1.06	0.01
Dots	0.22	0.00	0.68	0.00	1.15	0.00
Triangles	0.35	0.01	0.83	0.01	1.20	0.00
Population	0.22	0.00	0.62	0.00	1.02	0.01
Surface area	0.14	0.00	0.58	0.01	1.12	0.00
Beer	0.38	0.01	0.86	0.01	1.18	0.00
Cars	0.83	0.02	1.03	0.01	1.03	0.01
Restaurants	0.40	0.01	0.89	0.01	1.19	0.00
Flight layovers	0.53	0.02	0.93	0.01	1.16	0.00
Future payments	0.19	0.01	0.64	0.01	1.15	0.00
Phone plans	0.54	0.02	0.89	0.01	1.09	0.01
Hotel rooms	0.29	0.01	0.77	0.01	1.20	0.00
Two-flight itineraries	0.39	0.01	0.75	0.01	0.99	0.01
Televisions	0.19	0.00	0.66	0.00	1.21	0.00
Coffee	0.22	0.00	0.70	0.00	1.20	0.00
Charity	0.47	0.01	0.90	0.01	1.16	0.00

- prior favouring high lambda is complementary with imposing ru

```
knitr::kable(result.table[,c('wstuP', 'wstuPe', 'mstuP', 'mstuPe', 'sstuP', 'sstuPe', 'tiuP', 'tiuPe')])
```

	wstuP	wstuPe	mstuP	mstuPe	sstuP	sstuPe	tiuP	tiuPe
Prior	0.117	0.000	0.005	0.000	0.000032	0.000006	0.494	0.001
Male stars	0.620	0.002	0.221	0.001	0.004850	0.000244	0.998	0.000
Female stars	0.328	0.002	0.030	0.001	0.000125	0.000039	1.000	0.000
Films	0.141	0.001	0.003	0.000	0.000000	0.000000	0.815	0.002
Star pairs	0.202	0.001	0.008	0.000	0.000012	0.000013	0.993	0.000
Pizzas	0.145	0.001	0.002	0.000	0.000000	0.000000	0.986	0.000
Juices	0.591	0.002	0.036	0.001	0.000150	0.000043	0.989	0.000
Colours	0.681	0.002	0.174	0.001	0.000312	0.000060	0.959	0.001
Colour Combinations	0.096	0.001	0.004	0.000	0.000000	0.000000	1.000	0.000
Events	0.629	0.002	0.263	0.002	0.001312	0.000128	0.925	0.001
Radio formats	0.914	0.001	0.264	0.002	0.000775	0.000093	0.975	0.001
Musical artists	0.622	0.002	0.051	0.001	0.000162	0.000046	0.996	0.000
Aboriginal art	0.647	0.002	0.124	0.001	0.001175	0.000118	0.999	0.000
Impressionist art	0.528	0.002	0.096	0.001	0.000738	0.000095	0.996	0.000
Sentences	0.652	0.002	0.165	0.001	0.000700	0.000089	0.995	0.000
Travel	0.926	0.001	0.306	0.002	0.004788	0.000251	0.994	0.000
Marijuana	0.702	0.002	0.031	0.001	0.000038	0.000022	0.753	0.002
Latitude	0.903	0.001	0.123	0.001	0.000012	0.000013	0.785	0.002
Dots	0.567	0.002	0.132	0.001	0.001112	0.000118	0.997	0.000
Triangles	0.471	0.002	0.042	0.001	0.000138	0.000041	0.977	0.001
Population	0.365	0.002	0.038	0.001	0.000250	0.000054	0.999	0.000
Surface area	0.770	0.002	0.344	0.002	0.007075	0.000281	0.997	0.000
Beer	0.204	0.001	0.026	0.001	0.000225	0.000054	0.751	0.002
Cars	0.363	0.002	0.040	0.001	0.000162	0.000044	0.996	0.000
Restaurants	0.542	0.002	0.098	0.001	0.000150	0.000043	0.940	0.001
Flight layovers	0.876	0.001	0.110	0.001	0.000312	0.000059	0.975	0.001
Future payments	0.743	0.002	0.173	0.001	0.001388	0.000134	0.993	0.000
Phone plans	0.142	0.001	0.003	0.000	0.000000	0.000000	0.983	0.000
Hotel rooms	1.000	0.000	0.120	0.001	0.000400	0.000072	0.848	0.001
Two-flight itineraries	0.169	0.001	0.007	0.000	0.000025	0.000018	0.998	0.000
Televisions	0.932	0.001	0.607	0.002	0.006350	0.000277	0.986	0.000
Coffee	0.750	0.002	0.412	0.002	0.004288	0.000233	0.997	0.000
Charity	0.470	0.002	0.012	0.000	0.000012	0.000013	0.852	0.002

- Errors are acceptable for wst, mst, ti, but not for sst
- Remarkably high probabilities for TI (but how many probabilities are outside $[1/3, 2/3]$)

```
knitr::kable(result.table[,c('wstsP', 'wstsPe', 'mstsP', 'mstsPe', 'sstSP', 'sstSPe', 'tisP', 'tisPe')])
```

	wstsP	wstsPe	mstsP	mstsPe	sstsP	sstsPe	tisP	tisPe
Prior	0.576	0.001	0.107	0.000	0.000925	0.000034	0.940	0.000
Male stars	0.988	0.001	0.843	0.004	0.039738	0.001505	1.000	0.000
Female stars	0.728	0.004	0.222	0.003	0.003188	0.000257	1.000	0.000
Films	0.426	0.006	0.071	0.003	0.000175	0.000059	0.999	0.000
Star pairs	0.745	0.005	0.144	0.003	0.000600	0.000110	1.000	0.000
Pizzas	0.500	0.005	0.041	0.002	0.000025	0.000018	1.000	0.000
Juices	0.718	0.005	0.217	0.005	0.001838	0.000206	1.000	0.000
Colours	0.814	0.006	0.518	0.008	0.002425	0.000318	1.000	0.000
Colour Combinations	0.330	0.004	0.027	0.001	0.000200	0.000058	1.000	0.000
Events	0.818	0.008	0.478	0.010	0.000725	0.000118	0.999	0.000
Radio formats	0.997	0.000	0.716	0.006	0.017250	0.000960	1.000	0.000
Musical artists	0.720	0.005	0.297	0.005	0.004450	0.000336	1.000	0.000
Aboriginal art	0.868	0.003	0.425	0.005	0.012850	0.000610	1.000	0.000
Impressionist art	0.925	0.003	0.487	0.006	0.006662	0.000461	1.000	0.000
Sentences	0.779	0.005	0.430	0.006	0.001088	0.000161	1.000	0.000
Travel	0.984	0.001	0.771	0.005	0.038862	0.001873	1.000	0.000
Marijuana	0.971	0.001	0.179	0.006	0.000188	0.000075	0.997	0.000
Latitude	0.997	0.000	0.486	0.010	0.000038	0.000037	0.990	0.000
Dots	0.818	0.005	0.332	0.006	0.005038	0.000398	1.000	0.000
Triangles	0.636	0.006	0.261	0.006	0.002325	0.000264	1.000	0.000
Population	0.601	0.005	0.126	0.003	0.001000	0.000132	1.000	0.000
Surface area	0.923	0.006	0.438	0.014	0.042700	0.003552	1.000	0.000
Beer	0.779	0.007	0.313	0.008	0.004025	0.000411	0.992	0.001
Cars	0.719	0.005	0.164	0.004	0.001112	0.000146	1.000	0.000
Restaurants	0.774	0.009	0.294	0.008	0.001662	0.000269	0.999	0.000
Flight layovers	0.999	0.000	0.170	0.005	0.001025	0.000143	1.000	0.000
Future payments	0.996	0.000	0.428	0.012	0.000550	0.000098	1.000	0.000
Phone plans	0.287	0.004	0.033	0.001	0.000275	0.000059	1.000	0.000
Hotel rooms	1.000	0.000	0.707	0.008	0.010588	0.001036	1.000	0.000
Two-flight itineraries	0.428	0.004	0.056	0.002	0.000188	0.000060	1.000	0.000
Televisions	1.000	0.000	0.973	0.002	0.014375	0.001201	1.000	0.000
Coffee	0.887	0.005	0.670	0.008	0.010762	0.000742	1.000	0.000
Charity	0.820	0.007	0.093	0.004	0.000000	0.000000	0.996	0.000

- High posterior probability of TI is remarkably robust.
- Errors for sst are much better for simple than for uniform model.

```
knitr::kable(result.table[,c('regsP', 'regsPe', 'rusP', 'rusPe', 'mulsP', 'mulsPe')], digits = c(3,3,3,3,3,3))
```

	regsP	regsPe	rusP	rusPe	mulsP	mulsPe
Prior	0.303	0.001	0.227	0.000	0.011118	0.000116
Male stars	0.556	0.002	0.398	0.002	0.105950	0.002779
Female stars	0.432	0.003	0.289	0.002	0.028975	0.001242
Films	0.505	0.003	0.359	0.002	0.129700	0.003499
Star pairs	0.516	0.002	0.357	0.002	0.062162	0.001986
Pizzas	0.474	0.003	0.325	0.002	0.017025	0.000860
Juices	0.465	0.003	0.318	0.002	0.118262	0.002450
Colours	0.452	0.003	0.330	0.002	0.042575	0.001794
Colour Combinations	0.506	0.003	0.333	0.002	0.141738	0.003057
Events	0.287	0.005	0.222	0.004	0.003588	0.000396
Radio formats	0.336	0.004	0.241	0.003	0.036425	0.001541
Musical artists	0.548	0.002	0.384	0.002	0.094962	0.002589
Aboriginal art	0.430	0.003	0.294	0.002	0.015675	0.000876
Impressionist art	0.506	0.003	0.358	0.002	0.035825	0.001561
Sentences	0.495	0.002	0.366	0.002	0.075375	0.002453
Travel	0.482	0.003	0.355	0.003	0.096775	0.002725
Marijuana	0.493	0.003	0.366	0.003	0.001250	0.000222
Latitude	0.363	0.006	0.287	0.005	0.000062	0.000041
Dots	0.539	0.002	0.395	0.002	0.035225	0.001610
Triangles	0.429	0.003	0.327	0.003	0.000875	0.000159
Population	0.555	0.002	0.389	0.002	0.110412	0.002713
Surface area	0.512	0.003	0.411	0.003	0.011250	0.001135
Beer	0.366	0.004	0.292	0.004	0.005375	0.000552
Cars	0.321	0.004	0.229	0.003	0.048300	0.001736
Restaurants	0.373	0.004	0.288	0.003	0.004812	0.000544
Flight layovers	0.367	0.004	0.268	0.003	0.000025	0.000018
Future payments	0.497	0.003	0.393	0.003	0.000000	0.000000
Phone plans	0.384	0.004	0.272	0.003	0.007688	0.000615
Hotel rooms	0.442	0.003	0.343	0.003	0.005962	0.000674
Two-flight itineraries	0.456	0.003	0.308	0.002	0.037962	0.001543
Televisions	0.529	0.002	0.408	0.002	0.018925	0.001196
Coffee	0.523	0.002	0.392	0.002	0.063088	0.002473
Charity	0.379	0.004	0.281	0.003	0.005750	0.000467

- Prior probability is based on 144 draws out of 800000 independent draws. A bit noisy.

```
knitr::kable(result.table[,c('wstub', 'wstube', 'mstub', 'mstube', 'sstub', 'sstube', 'tiub', 'tiube')])
```

	wstub	wstube	mstub	mstube	sstub	sstube	tiub	tiube
Prior	0.000	0.003	0.000	0.015	0.000	0.193	0.000	0.001
Male stars	1.666	0.004	3.764	0.017	5.005	0.200	0.704	0.001
Female stars	1.028	0.006	1.750	0.025	1.347	0.367	0.706	0.001
Films	0.184	0.009	-0.427	0.064	-Inf	NA	0.502	0.003
Star pairs	0.542	0.008	0.425	0.043	-0.956	1.020	0.699	0.001
Pizzas	0.212	0.009	-0.974	0.090	-Inf	NA	0.692	0.001
Juices	1.617	0.004	1.945	0.024	1.529	0.343	0.695	0.001
Colours	1.760	0.004	3.525	0.017	2.263	0.273	0.664	0.001
Colour Combinations	-0.196	0.011	-0.337	0.061	-Inf	NA	0.706	0.001
Events	1.681	0.004	3.937	0.016	3.698	0.217	0.629	0.002
Radio formats	2.054	0.003	3.941	0.016	3.172	0.228	0.681	0.001
Musical artists	1.668	0.004	2.304	0.021	1.609	0.342	0.703	0.001
Aboriginal art	1.709	0.004	3.184	0.018	3.588	0.218	0.705	0.001
Impressionist art	1.506	0.005	2.932	0.019	3.122	0.232	0.702	0.001
Sentences	1.717	0.004	3.470	0.017	3.070	0.232	0.701	0.001
Travel	2.067	0.003	4.087	0.016	4.993	0.200	0.700	0.001
Marijuana	1.791	0.004	1.809	0.025	0.143	0.608	0.422	0.003
Latitude	2.042	0.003	3.178	0.018	-0.956	1.020	0.465	0.003
Dots	1.577	0.004	3.245	0.018	3.533	0.221	0.703	0.001
Triangles	1.391	0.005	2.093	0.022	1.442	0.354	0.683	0.001
Population	1.135	0.006	2.003	0.023	2.040	0.290	0.705	0.001
Surface area	1.882	0.004	4.204	0.016	5.383	0.198	0.704	0.001
Beer	0.557	0.008	1.606	0.027	1.935	0.307	0.420	0.003
Cars	1.131	0.005	2.064	0.023	1.609	0.334	0.702	0.001
Restaurants	1.532	0.004	2.951	0.019	1.529	0.343	0.644	0.002
Flight layovers	2.011	0.003	3.061	0.018	2.263	0.271	0.680	0.001
Future payments	1.846	0.004	3.519	0.017	3.754	0.216	0.700	0.001
Phone plans	0.190	0.009	-0.476	0.064	-Inf	NA	0.689	0.001
Hotel rooms	2.144	0.003	3.156	0.018	2.510	0.264	0.541	0.002
Two-flight itineraries	0.367	0.009	0.332	0.043	-0.262	0.733	0.704	0.001
Televisions	2.073	0.003	4.774	0.016	5.275	0.198	0.692	0.001
Coffee	1.856	0.004	4.385	0.016	4.882	0.201	0.703	0.001
Charity	1.389	0.005	0.835	0.035	-0.956	1.020	0.546	0.002


```
knitr::kable(result.table[,c('wstsb', 'wstsbe', 'mstsb', 'mstsbe', 'sstsb', 'sstbe', 'tisb', 'tisbe')])
```

	wstsb	wstsbe	mstsb	mstsbe	sstsb	sstsbe	tisb	tisbe
Prior	0.000	0.001	0.000	0.003	0.000	0.037	0.000	0.000
Male stars	0.540	0.001	2.066	0.006	3.760	0.053	0.062	0.000
Female stars	0.235	0.005	0.729	0.016	1.237	0.089	0.062	0.000
Films	-0.301	0.015	-0.408	0.040	-1.665	0.338	0.062	0.000
Star pairs	0.258	0.007	0.298	0.023	-0.433	0.187	0.062	0.000
Pizzas	-0.141	0.010	-0.946	0.039	-3.611	0.708	0.062	0.000
Juices	0.221	0.008	0.707	0.022	0.686	0.118	0.062	0.000
Colours	0.347	0.007	1.577	0.015	0.964	0.136	0.062	0.000
Colour Combinations	-0.555	0.011	-1.385	0.035	-1.531	0.293	0.062	0.000
Events	0.352	0.010	1.497	0.021	-0.244	0.167	0.061	0.000
Radio formats	0.549	0.001	1.903	0.009	2.926	0.067	0.062	0.000
Musical artists	0.224	0.007	1.022	0.016	1.571	0.084	0.062	0.000
Aboriginal art	0.411	0.003	1.380	0.012	2.631	0.060	0.062	0.000
Impressionist art	0.475	0.003	1.517	0.013	1.974	0.078	0.062	0.000
Sentences	0.302	0.007	1.391	0.015	0.162	0.153	0.062	0.000
Travel	0.536	0.002	1.976	0.008	3.738	0.061	0.062	0.000
Marijuana	0.523	0.002	0.518	0.032	-1.596	0.403	0.060	0.000
Latitude	0.549	0.001	1.515	0.020	-3.205	0.996	0.052	0.001
Dots	0.352	0.006	1.134	0.019	1.695	0.087	0.062	0.000
Triangles	0.100	0.010	0.895	0.022	0.922	0.119	0.062	0.000
Population	0.043	0.008	0.167	0.025	0.078	0.137	0.062	0.000
Surface area	0.472	0.006	1.411	0.032	3.832	0.091	0.062	0.000
Beer	0.303	0.009	1.075	0.027	1.470	0.109	0.054	0.001
Cars	0.223	0.007	0.426	0.024	0.185	0.137	0.062	0.000
Restaurants	0.296	0.011	1.011	0.028	0.586	0.166	0.061	0.000
Flight layovers	0.552	0.001	0.465	0.027	0.103	0.144	0.062	0.000
Future payments	0.549	0.001	1.388	0.028	-0.520	0.182	0.062	0.000
Phone plans	-0.696	0.014	-1.166	0.038	-1.213	0.216	0.062	0.000
Hotel rooms	0.552	0.001	1.890	0.012	2.438	0.105	0.062	0.000
Two-flight itineraries	-0.297	0.010	-0.640	0.030	-1.596	0.324	0.062	0.000
Televisions	0.552	0.001	2.209	0.004	2.743	0.091	0.062	0.000
Coffee	0.433	0.005	1.836	0.012	2.454	0.078	0.062	0.000
Charity	0.354	0.009	-0.142	0.043	-Inf	NA	0.059	0.000

```
knitr::kable(result.table[,c('regsb', 'regsbe', 'rusb', 'rusbe', 'mulsb', 'mulsbe')], digits = 3)
```

	regsb	regsbe	rusb	rusbe	mulsb	mulsbe
Prior	0.000	0.002	0.000	0.002	0.000	0.010
Male stars	0.607	0.004	0.560	0.006	2.254	0.028
Female stars	0.355	0.007	0.240	0.009	0.958	0.044
Films	0.511	0.006	0.456	0.007	2.457	0.029
Star pairs	0.532	0.005	0.452	0.007	1.721	0.034
Pizzas	0.447	0.006	0.356	0.007	0.426	0.052
Juices	0.428	0.006	0.336	0.007	2.364	0.023
Colours	0.400	0.006	0.373	0.008	1.343	0.043
Colour Combinations	0.512	0.005	0.382	0.007	2.545	0.024
Events	-0.054	0.017	-0.025	0.018	-1.131	0.111
Radio formats	0.104	0.011	0.059	0.012	1.187	0.044
Musical artists	0.593	0.004	0.525	0.006	2.145	0.029
Aboriginal art	0.350	0.007	0.258	0.008	0.344	0.057
Impressionist art	0.513	0.005	0.455	0.007	1.170	0.045
Sentences	0.491	0.005	0.476	0.007	1.914	0.034
Travel	0.464	0.007	0.445	0.009	2.164	0.030
Marijuana	0.486	0.006	0.477	0.008	-2.185	0.178
Latitude	0.182	0.016	0.232	0.016	-5.181	0.662
Dots	0.577	0.005	0.552	0.006	1.153	0.047
Triangles	0.348	0.008	0.364	0.009	-2.542	0.182
Population	0.606	0.004	0.536	0.006	2.296	0.027
Surface area	0.524	0.006	0.593	0.007	0.012	0.101
Beer	0.188	0.012	0.248	0.013	-0.727	0.103
Cars	0.058	0.013	0.008	0.014	1.469	0.037
Restaurants	0.207	0.011	0.238	0.012	-0.837	0.113
Flight layovers	0.192	0.011	0.165	0.013	-6.097	0.707
Future payments	0.496	0.006	0.548	0.008	-Inf	NA
Phone plans	0.238	0.009	0.177	0.011	-0.369	0.081
Hotel rooms	0.378	0.007	0.411	0.009	-0.623	0.113
Two-flight itineraries	0.409	0.006	0.303	0.008	1.228	0.042
Televisions	0.557	0.005	0.584	0.006	0.532	0.064
Coffee	0.546	0.005	0.545	0.006	1.736	0.041
Charity	0.225	0.010	0.210	0.011	-0.659	0.082

- Prior simulation is weak link in standard errors for MI log Bayes factors.

```
#knitr::kable(result.table[,c('al1', 'ale1', 'al2', 'ale2', 'al3', 'ale3', 'al4', 'ale4', 'alu', 'alue')])
knitr::kable(result.table[,c('al1', 'ale1', 'al2', 'ale2', 'al3', 'ale3', 'als', 'alse', 'alu', 'alue')])
```

	al1	ale1	al2	ale2	al3	ale3	als	alse	alu	alue
Prior	9.006	0.009	8.996	0.006	8.990	0.005	8.995	0.006	8.997	0.006
Male stars	13.006	0.126	12.770	0.131	12.632	0.137	12.914	0.121	10.547	0.058
Female stars	18.025	0.161	17.452	0.144	17.255	0.144	16.725	0.123	19.278	0.072
Films	13.770	0.132	13.441	0.130	13.267	0.134	13.235	0.125	13.766	0.066
Star pairs	16.405	0.169	15.508	0.149	15.082	0.151	15.024	0.140	19.984	0.072
Pizzas	15.518	0.157	14.953	0.135	14.671	0.136	14.921	0.123	15.081	0.064
Juices	15.415	0.147	14.991	0.133	14.753	0.137	14.881	0.125	17.227	0.068
Colours	10.660	0.109	10.638	0.100	10.614	0.100	10.543	0.095	6.110	0.045
Colour Combinations	19.753	0.180	18.566	0.163	17.936	0.178	18.278	0.125	28.020	0.071
Events	8.984	0.118	8.769	0.095	8.597	0.098	8.579	0.084	5.257	0.043
Radio formats	10.988	0.117	10.778	0.111	10.643	0.115	10.989	0.112	6.338	0.049
Musical artists	15.535	0.141	14.953	0.155	14.584	0.175	15.046	0.114	14.016	0.063
Aboriginal art	15.504	0.149	15.083	0.135	14.905	0.137	14.870	0.122	15.843	0.061
Impressionist art	14.828	0.122	14.504	0.117	14.346	0.119	13.995	0.126	11.967	0.061
Sentences	12.242	0.109	12.233	0.106	12.199	0.110	12.332	0.111	8.238	0.055
Travel	12.398	0.111	12.315	0.107	12.275	0.108	11.923	0.119	6.679	0.046
Marijuana	10.320	0.124	10.042	0.118	9.873	0.122	9.476	0.117	6.706	0.051
Latitude	5.650	0.099	5.530	0.089	5.504	0.087	6.036	0.079	3.923	0.040
Dots	12.841	0.112	12.669	0.106	12.579	0.108	12.460	0.100	7.259	0.049
Triangles	9.589	0.099	9.568	0.095	9.537	0.098	9.434	0.103	6.349	0.054
Population	16.170	0.131	15.631	0.152	15.240	0.186	15.342	0.115	17.641	0.072
Surface area	5.444	0.066	5.502	0.063	5.528	0.063	5.840	0.060	2.487	0.023
Beer	7.044	0.081	7.207	0.071	7.326	0.070	7.587	0.088	5.177	0.046
Cars	14.614	0.143	14.131	0.137	13.798	0.145	14.000	0.118	15.896	0.069
Restaurants	8.381	0.105	8.521	0.098	8.659	0.099	8.676	0.095	7.125	0.058
Flight layovers	10.902	0.162	10.368	0.124	10.126	0.117	10.211	0.126	8.652	0.053
Future payments	6.228	0.086	6.142	0.067	6.093	0.062	6.306	0.076	5.482	0.048
Phone plans	14.298	0.204	13.159	0.154	12.576	0.154	13.255	0.134	22.166	0.071
Hotel rooms	8.025	0.088	7.993	0.080	7.975	0.080	7.598	0.098	4.389	0.038
Two-flight itineraries	16.778	0.140	16.355	0.129	16.122	0.132	16.203	0.118	22.102	0.076
Televisions	8.584	0.088	8.593	0.084	8.593	0.084	8.625	0.090	4.480	0.039
Coffee	10.682	0.109	10.662	0.105	10.632	0.106	10.579	0.096	5.602	0.046
Charity	11.217	0.135	10.854	0.120	10.687	0.122	10.376	0.134	13.667	0.068

- Prior results nail theoretical values.

```
#knitr::kable(result.table[,c('la1', 'lae1', 'la2', 'lae2', 'la3', 'lae3', 'la4', 'lae4', 'lau', 'laue')])
knitr::kable(result.table[,c('la1', 'lae1', 'la2', 'lae2', 'la3', 'lae3', 'las', 'lase', 'lau', 'laue')])
```

	la1	lae1	la2	lae2	la3	lae3	las	lase	lau	laue
Prior	0.668	0.000	0.834	0.000	0.917	0.000	0.917	0.000	0	0
Male stars	0.945	0.001	0.974	0.001	0.987	0.000	0.986	0.000	0	0
Female stars	0.840	0.006	0.917	0.002	0.956	0.001	0.960	0.001	0	0
Films	0.922	0.003	0.962	0.001	0.981	0.000	0.981	0.000	0	0
Star pairs	0.893	0.004	0.952	0.001	0.977	0.001	0.978	0.000	0	0
Pizzas	0.873	0.005	0.939	0.002	0.970	0.001	0.970	0.001	0	0
Juices	0.891	0.003	0.943	0.001	0.971	0.001	0.972	0.001	0	0
Colours	0.918	0.003	0.958	0.001	0.979	0.001	0.978	0.000	0	0
Colour Combinations	0.858	0.005	0.935	0.002	0.969	0.001	0.967	0.001	0	0
Events	0.848	0.006	0.913	0.003	0.950	0.002	0.952	0.002	0	0
Radio formats	0.880	0.004	0.932	0.002	0.961	0.001	0.961	0.001	0	0
Musical artists	0.930	0.002	0.967	0.001	0.984	0.000	0.983	0.000	0	0
Aboriginal art	0.883	0.003	0.939	0.001	0.968	0.001	0.966	0.001	0	0
Impressionist art	0.909	0.003	0.956	0.001	0.978	0.001	0.980	0.000	0	0
Sentences	0.931	0.002	0.966	0.001	0.983	0.000	0.983	0.000	0	0
Travel	0.928	0.002	0.964	0.001	0.982	0.000	0.982	0.000	0	0
Marijuana	0.926	0.002	0.964	0.001	0.982	0.001	0.984	0.000	0	0
Latitude	0.903	0.004	0.947	0.002	0.971	0.001	0.972	0.001	0	0
Dots	0.939	0.002	0.971	0.001	0.986	0.000	0.986	0.000	0	0
Triangles	0.914	0.003	0.956	0.001	0.977	0.001	0.979	0.000	0	0
Population	0.928	0.002	0.966	0.001	0.984	0.000	0.984	0.000	0	0
Surface area	0.964	0.001	0.983	0.000	0.992	0.000	0.991	0.000	0	0
Beer	0.918	0.003	0.954	0.001	0.975	0.001	0.975	0.001	0	0
Cars	0.788	0.006	0.875	0.004	0.928	0.002	0.936	0.002	0	0
Restaurants	0.914	0.002	0.952	0.001	0.973	0.001	0.974	0.001	0	0
Flight layovers	0.853	0.007	0.926	0.003	0.962	0.001	0.960	0.001	0	0
Future payments	0.945	0.003	0.975	0.001	0.988	0.000	0.988	0.000	0	0
Phone plans	0.834	0.008	0.917	0.003	0.958	0.002	0.956	0.001	0	0
Hotel rooms	0.931	0.002	0.965	0.001	0.982	0.001	0.983	0.000	0	0
Two-flight itineraries	0.874	0.003	0.936	0.001	0.967	0.001	0.965	0.001	0	0
Televisions	0.954	0.001	0.978	0.001	0.990	0.000	0.990	0.000	0	0
Coffee	0.945	0.002	0.973	0.001	0.987	0.000	0.987	0.000	0	0
Charity	0.880	0.005	0.937	0.002	0.967	0.001	0.967	0.001	0	0

```
knitr::kable(result.table[,c('als0.05', 'als0.05e', 'als0.25', 'als0.25e', 'als0.50', 'als0.50e', 'als0
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	als0.05	als0.05e	als0.25	als0.25e	als0.50	als0.50e	als0.75	als0.75e	als0.95	als0.95e
Prior	2.452	0.005	5.176	0.006	8.023	0.007	11.758	0.009	18.839	0.020
Male stars	6.496	0.137	9.671	0.124	12.382	0.124	15.607	0.132	21.115	0.155
Female stars	8.533	0.161	12.604	0.124	16.023	0.127	20.147	0.129	27.265	0.166
Films	6.669	0.133	9.853	0.122	12.644	0.128	15.982	0.140	21.778	0.175
Star pairs	7.200	0.145	10.949	0.143	14.258	0.149	18.309	0.152	25.436	0.201
Pizzas	7.712	0.130	11.252	0.124	14.302	0.124	17.918	0.136	24.224	0.170
Juices	7.470	0.120	11.065	0.125	14.238	0.127	17.988	0.143	24.486	0.177
Colours	5.657	0.077	8.037	0.087	10.124	0.096	12.601	0.112	16.847	0.144
Colour Combinations	9.055	0.117	13.462	0.125	17.424	0.130	22.154	0.145	30.493	0.181
Events	4.484	0.070	6.510	0.077	8.234	0.085	10.290	0.098	13.783	0.129
Radio formats	5.698	0.108	8.309	0.105	10.547	0.114	13.196	0.129	17.796	0.174
Musical artists	7.818	0.114	11.399	0.114	14.433	0.117	18.017	0.129	24.305	0.158
Aboriginal art	7.644	0.108	11.114	0.119	14.244	0.130	17.917	0.138	24.258	0.172
Impressionist art	7.232	0.184	10.631	0.126	13.447	0.123	16.801	0.134	22.506	0.176
Sentences	6.550	0.118	9.416	0.107	11.839	0.112	14.710	0.123	19.774	0.163
Travel	6.080	0.219	9.114	0.122	11.534	0.113	14.331	0.124	19.070	0.153
Marijuana	4.590	0.110	6.982	0.113	9.072	0.124	11.521	0.135	15.768	0.178
Latitude	2.935	0.055	4.404	0.071	5.736	0.084	7.338	0.094	10.146	0.140
Dots	6.715	0.086	9.542	0.093	12.003	0.103	14.868	0.118	19.798	0.151
Triangles	4.918	0.074	7.074	0.087	8.991	0.103	11.299	0.125	15.493	0.179
Population	7.972	0.121	11.593	0.108	14.687	0.115	18.380	0.131	24.957	0.174
Surface area	3.079	0.044	4.434	0.053	5.617	0.061	6.983	0.072	9.394	0.096
Beer	3.899	0.076	5.682	0.078	7.246	0.090	9.112	0.106	12.452	0.146
Cars	7.007	0.134	10.407	0.114	13.362	0.120	16.913	0.133	23.158	0.178
Restaurants	4.472	0.080	6.497	0.087	8.291	0.099	10.439	0.113	14.199	0.139
Flight layovers	4.861	0.136	7.523	0.137	9.806	0.129	12.440	0.140	16.914	0.177
Future payments	3.087	0.077	4.701	0.081	6.063	0.075	7.628	0.081	10.358	0.116
Phone plans	6.316	0.116	9.544	0.127	12.482	0.140	16.176	0.158	22.764	0.184
Hotel rooms	3.764	0.077	5.588	0.092	7.238	0.103	9.213	0.116	12.649	0.154
Two-flight itineraries	8.298	0.115	12.125	0.113	15.463	0.122	19.506	0.138	26.601	0.172
Televisions	4.518	0.096	6.548	0.083	8.282	0.091	10.347	0.104	13.844	0.134
Coffee	5.718	0.080	8.098	0.090	10.184	0.098	12.627	0.113	16.800	0.144
Charity	4.891	0.104	7.488	0.128	9.827	0.138	12.631	0.157	17.777	0.201

```
knitr::kable(result.table[,c('las0.05', 'las0.05e', 'las0.25', 'las0.25e', 'las0.50', 'las0.50e', 'las0
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	las0.05	las0.05e	las0.25	las0.25e	las0.50	las0.50e	las0.75	las0.75e	las0.95	las0.95e
Prior	0.606	0.001	0.897	0.000	0.982	0.000	0.999	0	1	0
Male stars	0.934	0.001	0.986	0.000	0.998	0.000	1.000	0	1	0
Female stars	0.817	0.004	0.950	0.001	0.991	0.000	0.999	0	1	0
Films	0.908	0.002	0.980	0.000	0.997	0.000	1.000	0	1	0
Star pairs	0.891	0.002	0.978	0.001	0.996	0.000	1.000	0	1	0
Pizzas	0.854	0.003	0.967	0.001	0.994	0.000	1.000	0	1	0
Juices	0.866	0.002	0.968	0.001	0.994	0.000	1.000	0	1	0
Colours	0.897	0.002	0.976	0.001	0.996	0.000	1.000	0	1	0
Colour Combinations	0.839	0.004	0.966	0.001	0.994	0.000	1.000	0	1	0
Events	0.800	0.005	0.932	0.003	0.983	0.001	0.999	0	1	0
Radio formats	0.835	0.004	0.947	0.001	0.987	0.000	0.999	0	1	0
Musical artists	0.915	0.002	0.983	0.000	0.997	0.000	1.000	0	1	0
Aboriginal art	0.841	0.003	0.959	0.001	0.992	0.000	1.000	0	1	0
Impressionist art	0.899	0.002	0.979	0.000	0.996	0.000	1.000	0	1	0
Sentences	0.917	0.001	0.982	0.000	0.997	0.000	1.000	0	1	0
Travel	0.916	0.002	0.980	0.001	0.997	0.000	1.000	0	1	0
Marijuana	0.925	0.002	0.984	0.000	0.997	0.000	1.000	0	1	0
Latitude	0.873	0.004	0.967	0.001	0.994	0.000	1.000	0	1	0
Dots	0.930	0.001	0.986	0.000	0.998	0.000	1.000	0	1	0
Triangles	0.900	0.002	0.976	0.001	0.996	0.000	1.000	0	1	0
Population	0.921	0.001	0.983	0.000	0.997	0.000	1.000	0	1	0
Surface area	0.957	0.001	0.991	0.000	0.998	0.000	1.000	0	1	0
Beer	0.890	0.003	0.969	0.001	0.994	0.000	1.000	0	1	0
Cars	0.732	0.006	0.909	0.003	0.980	0.001	0.999	0	1	0
Restaurants	0.883	0.003	0.968	0.001	0.994	0.000	1.000	0	1	0
Flight layovers	0.821	0.005	0.951	0.002	0.991	0.000	0.999	0	1	0
Future payments	0.943	0.002	0.989	0.000	0.998	0.000	1.000	0	1	0
Phone plans	0.798	0.006	0.947	0.002	0.990	0.000	0.999	0	1	0
Hotel rooms	0.919	0.002	0.981	0.001	0.997	0.000	1.000	0	1	0
Two-flight itineraries	0.833	0.003	0.960	0.001	0.993	0.000	1.000	0	1	0
Televisions	0.950	0.001	0.990	0.000	0.998	0.000	1.000	0	1	0
Coffee	0.939	0.001	0.987	0.000	0.998	0.000	1.000	0	1	0
Charity	0.852	0.003	0.959	0.001	0.992	0.000	1.000	0	1	0

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	wstb1	wstb2	wstb3	wstub	wstube	wstsb	wstsbv
Prior	NA	NA	NA	0.000	0.003	0.000	0.001
Male stars	0.866	0.643	0.536	1.666	0.004	0.540	0.001
Female stars	0.481	0.312	0.240	1.028	0.006	0.235	0.005
Films	-0.058	-0.223	-0.295	0.184	0.009	-0.301	0.015
Star pairs	0.513	0.339	0.254	0.542	0.008	0.258	0.000
Pizzas	0.098	-0.065	-0.145	0.212	0.009	-0.141	0.010
Juices	0.595	0.346	0.221	1.617	0.004	0.221	0.008
Colours	0.677	0.458	0.354	1.760	0.004	0.347	0.007
Colour Combinations	-0.380	-0.513	-0.576	-0.196	0.011	-0.555	0.011
Events	0.641	0.417	0.309	1.681	0.004	0.352	0.010
Radio formats	0.882	0.655	0.546	2.054	0.003	0.549	0.001
Musical artists	0.579	0.352	0.242	1.668	0.004	0.224	0.007
Aboriginal art	0.718	0.510	0.413	1.709	0.004	0.411	0.003
Impressionist art	0.793	0.582	0.479	1.506	0.005	0.475	0.003
Sentences	0.628	0.403	0.294	1.717	0.004	0.302	0.007
Travel	0.874	0.646	0.536	2.067	0.003	0.536	0.002
Marijuana	0.856	0.631	0.522	1.791	0.004	0.523	0.002
Latitude	0.872	0.647	0.541	2.042	0.003	0.549	0.001
Dots	0.698	0.479	0.373	1.577	0.004	0.352	0.006
Triangles	0.436	0.205	0.095	1.391	0.005	0.100	0.010
Population	0.327	0.136	0.042	1.135	0.006	0.043	0.008
Surface area	0.805	0.581	0.472	1.882	0.004	0.472	0.006
Beer	0.413	0.296	0.272	0.557	0.008	0.303	0.009
Cars	0.465	0.279	0.198	1.131	0.005	0.223	0.007
Restaurants	0.617	0.411	0.317	1.532	0.004	0.296	0.011
Flight layovers	0.887	0.659	0.549	2.011	0.003	0.552	0.001
Future payments	0.876	0.653	0.546	1.846	0.004	0.549	0.001
Phone plans	-0.514	-0.666	-0.729	0.190	0.009	-0.696	0.014
Hotel rooms	0.890	0.660	0.550	2.144	0.003	0.552	0.001
Two-flight itineraries	-0.023	-0.202	-0.290	0.367	0.009	-0.297	0.010
Televisions	0.889	0.660	0.549	2.073	0.003	0.552	0.001
Coffee	0.756	0.533	0.424	1.856	0.004	0.433	0.005
Charity	0.650	0.445	0.350	1.389	0.005	0.354	0.009


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	sstb1	sstb2	sstb3	sstub	sstube	sstsb	sstsbe
Prior	NA	NA	NA	0.000	0.193	0.000	0.037
Male stars	4.309	3.815	3.592	5.005	0.200	3.760	0.053
Female stars	1.751	1.370	1.241	1.347	0.367	1.237	0.089
Films	-0.656	-1.207	-1.601	-Inf	NA	-1.665	0.338
Star pairs	0.084	-0.422	-0.717	-0.956	1.020	-0.433	0.187
Pizzas	-2.238	-2.625	-2.364	-Inf	NA	-3.611	0.708
Juices	1.103	0.750	0.596	1.529	0.343	0.686	0.118
Colours	1.300	0.816	0.644	2.263	0.273	0.964	0.136
Colour Combinations	-0.693	-1.349	-1.713	-Inf	NA	-1.531	0.293
Events	1.306	0.281	-0.359	3.698	0.217	-0.244	0.167
Radio formats	3.434	3.118	3.017	3.172	0.228	2.926	0.067
Musical artists	2.023	1.651	1.456	1.609	0.342	1.571	0.084
Aboriginal art	3.027	2.615	2.462	3.588	0.218	2.631	0.060
Impressionist art	2.729	2.233	2.027	3.122	0.232	1.974	0.078
Sentences	1.010	0.457	0.188	3.070	0.232	0.162	0.153
Travel	4.372	3.846	3.601	4.993	0.200	3.738	0.061
Marijuana	-0.701	-1.360	-1.480	0.143	0.608	-1.596	0.403
Latitude	-1.270	-1.306	-1.404	-0.956	1.020	-3.205	0.996
Dots	2.195	1.608	1.258	3.533	0.221	1.695	0.087
Triangles	1.643	1.323	1.212	1.442	0.354	0.922	0.119
Population	1.089	0.348	-0.085	2.040	0.290	0.078	0.137
Surface area	4.462	3.998	3.784	5.383	0.198	3.832	0.091
Beer	2.216	1.710	1.412	1.935	0.307	1.470	0.109
Cars	0.789	0.295	0.152	1.609	0.334	0.185	0.137
Restaurants	1.683	1.186	0.884	1.529	0.343	0.586	0.166
Flight layovers	0.728	0.305	0.055	2.263	0.271	0.103	0.144
Future payments	0.990	-0.070	-0.493	3.754	0.216	-0.520	0.182
Phone plans	-1.592	-1.209	-0.931	-Inf	NA	-1.213	0.216
Hotel rooms	2.957	2.594	2.462	2.510	0.264	2.438	0.105
Two-flight itineraries	-0.883	-1.396	-1.532	-0.262	0.733	-1.596	0.324
Televisions	3.637	3.007	2.685	5.275	0.198	2.743	0.091
Coffee	3.249	2.647	2.338	4.882	0.201	2.454	0.078
Charity	-Inf	-Inf	-Inf	-0.956	1.020	-Inf	NA

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	tib1	tib2	tib3	tiub	tiube	tisb	tisbe
Prior	NA	NA	NA	0.000	0.001	0.000	0.000
Male stars	0.233	0.120	0.062	0.704	0.001	0.062	0.000
Female stars	0.233	0.120	0.062	0.706	0.001	0.062	0.000
Films	0.231	0.119	0.061	0.502	0.003	0.062	0.000
Star pairs	0.233	0.120	0.062	0.699	0.001	0.062	0.000
Pizzas	0.233	0.120	0.062	0.692	0.001	0.062	0.000
Juices	0.233	0.120	0.061	0.695	0.001	0.062	0.000
Colours	0.233	0.120	0.062	0.664	0.001	0.062	0.000
Colour Combinations	0.233	0.120	0.062	0.706	0.001	0.062	0.000
Events	0.229	0.118	0.060	0.629	0.002	0.061	0.000
Radio formats	0.233	0.120	0.061	0.681	0.001	0.062	0.000
Musical artists	0.233	0.120	0.062	0.703	0.001	0.062	0.000
Aboriginal art	0.233	0.120	0.062	0.705	0.001	0.062	0.000
Impressionist art	0.233	0.120	0.062	0.702	0.001	0.062	0.000
Sentences	0.233	0.120	0.062	0.701	0.001	0.062	0.000
Travel	0.233	0.120	0.062	0.700	0.001	0.062	0.000
Marijuana	0.226	0.116	0.060	0.422	0.003	0.060	0.000
Latitude	0.197	0.096	0.047	0.465	0.003	0.052	0.001
Dots	0.233	0.120	0.062	0.703	0.001	0.062	0.000
Triangles	0.233	0.120	0.061	0.683	0.001	0.062	0.000
Population	0.233	0.120	0.062	0.705	0.001	0.062	0.000
Surface area	0.233	0.120	0.062	0.704	0.001	0.062	0.000
Beer	0.210	0.106	0.054	0.420	0.003	0.054	0.001
Cars	0.233	0.120	0.061	0.702	0.001	0.062	0.000
Restaurants	0.229	0.117	0.060	0.644	0.002	0.061	0.000
Flight layovers	0.232	0.120	0.061	0.680	0.001	0.062	0.000
Future payments	0.232	0.120	0.061	0.700	0.001	0.062	0.000
Phone plans	0.232	0.120	0.061	0.689	0.001	0.062	0.000
Hotel rooms	0.233	0.120	0.061	0.541	0.002	0.062	0.000
Two-flight itineraries	0.233	0.120	0.062	0.704	0.001	0.062	0.000
Televisions	0.233	0.120	0.062	0.692	0.001	0.062	0.000
Coffee	0.233	0.120	0.062	0.703	0.001	0.062	0.000
Charity	0.223	0.114	0.058	0.546	0.002	0.059	0.000

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	regb1	regb2	regb3	regub	regube	regsb	regsbbe
Prior	NA	NA	NA	NA	NA	0.000	0.002
Male stars	2.490	1.223	0.607	NA	NA	0.607	0.004
Female stars	1.642	0.729	0.333	NA	NA	0.355	0.007
Films	2.126	1.033	0.507	NA	NA	0.511	0.006
Star pairs	2.162	1.074	0.533	NA	NA	0.532	0.003
Pizzas	1.868	0.907	0.447	NA	NA	0.447	0.006
Juices	1.842	0.863	0.418	NA	NA	0.428	0.006
Colours	1.761	0.843	0.411	NA	NA	0.400	0.006
Colour Combinations	2.164	1.067	0.531	NA	NA	0.512	0.005
Events	0.339	0.037	-0.034	NA	NA	-0.054	0.017
Radio formats	0.915	0.298	0.085	NA	NA	0.104	0.011
Musical artists	2.465	1.222	0.611	NA	NA	0.593	0.004
Aboriginal art	1.731	0.788	0.369	NA	NA	0.350	0.007
Impressionist art	2.051	0.997	0.490	NA	NA	0.513	0.005
Sentences	2.022	0.993	0.492	NA	NA	0.491	0.005
Travel	1.944	0.916	0.440	NA	NA	0.464	0.007
Marijuana	1.931	0.945	0.470	NA	NA	0.486	0.006
Latitude	0.725	0.243	0.075	NA	NA	0.182	0.016
Dots	2.334	1.159	0.578	NA	NA	0.577	0.005
Triangles	1.438	0.665	0.316	NA	NA	0.348	0.008
Population	2.486	1.236	0.621	NA	NA	0.606	0.004
Surface area	2.237	1.113	0.552	NA	NA	0.524	0.006
Beer	0.954	0.383	0.159	NA	NA	0.188	0.012
Cars	0.437	0.081	-0.006	NA	NA	0.058	0.013
Restaurants	0.992	0.376	0.143	NA	NA	0.207	0.011
Flight layovers	1.038	0.446	0.196	NA	NA	0.192	0.011
Future payments	1.956	0.990	0.498	NA	NA	0.496	0.006
Phone plans	1.136	0.512	0.239	NA	NA	0.238	0.009
Hotel rooms	1.593	0.753	0.364	NA	NA	0.378	0.007
Two-flight itineraries	1.836	0.871	0.422	NA	NA	0.409	0.006
Televisions	2.245	1.117	0.556	NA	NA	0.557	0.005
Coffee	2.191	1.077	0.536	NA	NA	0.546	0.005
Charity	1.208	0.527	0.239	NA	NA	0.225	0.010

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	rub1	rub2	rub3	ruub	ruube	rusb	rusbe
Prior	NA	NA	NA	0	0	0.000	0.002
Male stars	2.354	1.138	0.561	0	0	0.560	0.006
Female stars	1.135	0.466	0.202	0	0	0.240	0.009
Films	1.971	0.932	0.451	0	0	0.456	0.007
Star pairs	1.879	0.918	0.451	0	0	0.452	0.007
Pizzas	1.537	0.726	0.352	0	0	0.356	0.007
Juices	1.502	0.678	0.325	0	0	0.336	0.007
Colours	1.710	0.794	0.382	0	0	0.373	0.008
Colour Combinations	1.682	0.820	0.408	0	0	0.382	0.007
Events	0.500	0.090	-0.013	0	0	-0.025	0.018
Radio formats	0.855	0.253	0.060	0	0	0.059	0.012
Musical artists	2.268	1.108	0.551	0	0	0.525	0.006
Aboriginal art	1.412	0.614	0.280	0	0	0.258	0.008
Impressionist art	1.845	0.870	0.421	0	0	0.455	0.007
Sentences	2.012	0.964	0.474	0	0	0.476	0.007
Travel	1.900	0.868	0.412	0	0	0.445	0.009
Marijuana	1.910	0.918	0.455	0	0	0.477	0.008
Latitude	1.010	0.361	0.128	0	0	0.232	0.016
Dots	2.319	1.123	0.555	0	0	0.552	0.006
Triangles	1.556	0.706	0.332	0	0	0.364	0.009
Population	2.273	1.116	0.560	0	0	0.536	0.006
Surface area	2.581	1.252	0.615	0	0	0.593	0.007
Beer	1.255	0.506	0.214	0	0	0.248	0.013
Cars	0.267	-0.013	-0.055	0	0	0.008	0.014
Restaurants	1.207	0.456	0.177	0	0	0.238	0.012
Flight layovers	0.940	0.385	0.162	0	0	0.165	0.013
Future payments	2.263	1.119	0.557	0	0	0.548	0.008
Phone plans	0.957	0.419	0.191	0	0	0.177	0.011
Hotel rooms	1.753	0.806	0.385	0	0	0.411	0.009
Two-flight itineraries	1.479	0.677	0.321	0	0	0.303	0.008
Televisions	2.437	1.182	0.581	0	0	0.584	0.006
Coffee	2.263	1.085	0.535	0	0	0.545	0.006
Charity	1.125	0.468	0.206	0	0	0.210	0.011

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#knitr::kable(result.table[,c('mulb1', 'mulb2', 'mulb3', 'mulb4', 'mulb5', 'mulb6', 'mulb7', 'mulb8', 'mulb9')], digits=3)
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	mulb1	mulb2	mulb3	mulub	mulube	mulsb	mulspe
Prior	NA	NA	NA	NA	NA	0.000	0.010
Male stars	3.514	2.642	2.223	NA	NA	2.254	0.028
Female stars	1.640	1.149	0.940	NA	NA	0.958	0.044
Films	3.623	2.833	2.459	NA	NA	2.457	0.029
Star pairs	2.964	2.163	1.760	NA	NA	1.721	0.034
Pizzas	1.299	0.682	0.423	NA	NA	0.426	0.052
Juices	3.264	2.624	2.338	NA	NA	2.364	0.023
Colours	1.966	1.538	1.356	NA	NA	1.343	0.043
Colour Combinations	3.607	2.877	2.519	NA	NA	2.545	0.024
Events	-0.801	-0.790	-0.690	NA	NA	-1.131	0.111
Radio formats	1.293	1.073	1.065	NA	NA	1.187	0.044
Musical artists	3.381	2.502	2.074	NA	NA	2.145	0.029
Aboriginal art	1.173	0.522	0.246	NA	NA	0.344	0.057
Impressionist art	2.324	1.596	1.256	NA	NA	1.170	0.045
Sentences	2.862	2.190	1.879	NA	NA	1.914	0.034
Travel	3.144	2.480	2.190	NA	NA	2.164	0.030
Marijuana	-0.990	-1.630	-1.958	NA	NA	-2.185	0.178
Latitude	-4.743	-5.352	-6.001	NA	NA	-5.181	0.662
Dots	2.442	1.614	1.215	NA	NA	1.153	0.047
Triangles	-1.185	-1.711	-1.878	NA	NA	-2.542	0.182
Population	3.552	2.657	2.218	NA	NA	2.296	0.027
Surface area	0.672	0.050	-0.248	NA	NA	0.012	0.101
Beer	-0.544	-0.758	-0.769	NA	NA	-0.727	0.103
Cars	1.673	1.397	1.348	NA	NA	1.469	0.037
Restaurants	-0.712	-1.154	-1.260	NA	NA	-0.837	0.113
Flight layovers	-4.966	-5.657	-6.169	NA	NA	-6.097	0.707
Future payments	-Inf	-Inf	-Inf	NA	NA	-Inf	NA
Phone plans	0.211	-0.358	-0.629	NA	NA	-0.369	0.081
Hotel rooms	-0.511	-0.907	-1.045	NA	NA	-0.623	0.113
Two-flight itineraries	2.199	1.512	1.207	NA	NA	1.228	0.042
Televisions	1.462	0.737	0.404	NA	NA	0.532	0.064
Coffee	2.762	2.043	1.717	NA	NA	1.736	0.041
Charity	0.059	-0.355	-0.446	NA	NA	-0.659	0.082


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	mstP1	mstP2	mstP3	mstuP	mstuPe	mstsP	mstsPe
Prior	0.056	0.086	0.107	0.005	0.000	0.107	0.000
Male stars	0.796	0.817	0.829	0.221	0.001	0.843	0.004
Female stars	0.175	0.206	0.227	0.030	0.001	0.222	0.003
Films	0.059	0.067	0.071	0.003	0.000	0.071	0.003
Star pairs	0.115	0.136	0.147	0.008	0.000	0.144	0.003
Pizzas	0.031	0.039	0.044	0.002	0.000	0.041	0.002
Juices	0.200	0.210	0.215	0.036	0.001	0.217	0.005
Colours	0.482	0.511	0.528	0.174	0.001	0.518	0.008
Colour Combinations	0.021	0.025	0.028	0.004	0.000	0.027	0.001
Events	0.446	0.447	0.446	0.263	0.002	0.478	0.010
Radio formats	0.636	0.684	0.718	0.264	0.002	0.716	0.006
Musical artists	0.270	0.289	0.297	0.051	0.001	0.297	0.005
Aboriginal art	0.379	0.407	0.424	0.124	0.001	0.425	0.005
Impressionist art	0.433	0.463	0.480	0.096	0.001	0.487	0.006
Sentences	0.395	0.412	0.422	0.165	0.001	0.430	0.006
Travel	0.748	0.768	0.781	0.306	0.002	0.771	0.005
Marijuana	0.175	0.189	0.197	0.031	0.001	0.179	0.006
Latitude	0.437	0.452	0.462	0.123	0.001	0.486	0.010
Dots	0.338	0.344	0.348	0.132	0.001	0.332	0.006
Triangles	0.239	0.255	0.266	0.042	0.001	0.261	0.006
Population	0.116	0.121	0.121	0.038	0.001	0.126	0.003
Surface area	0.376	0.380	0.382	0.344	0.002	0.438	0.014
Beer	0.219	0.266	0.306	0.026	0.001	0.313	0.008
Cars	0.129	0.143	0.152	0.040	0.001	0.164	0.004
Restaurants	0.274	0.288	0.296	0.098	0.001	0.294	0.008
Flight layovers	0.175	0.181	0.185	0.110	0.001	0.170	0.005
Future payments	0.412	0.446	0.465	0.173	0.001	0.428	0.012
Phone plans	0.024	0.029	0.032	0.003	0.000	0.033	0.001
Hotel rooms	0.620	0.673	0.707	0.120	0.001	0.707	0.008
Two-flight itineraries	0.050	0.056	0.058	0.007	0.000	0.056	0.002
Televisions	0.961	0.971	0.975	0.607	0.002	0.973	0.002
Coffee	0.655	0.666	0.671	0.412	0.002	0.670	0.008
Charity	0.073	0.088	0.100	0.012	0.000	0.093	0.004

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#knitr::kable(result.table[,c('sstP1', 'sstP2', 'sstP3', 'sstP4', 'sstP5', 'sstP6', 'sstP7', 'sstP8', 'sstP9')], digits=0)
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	sstP1	sstP2	sstP3	sstuP	sstuPe	sstsP	sstsPe
Prior	0.000	0.001	0.001	0.000	0	0.001	0.000
Male stars	0.030	0.033	0.034	0.005	0	0.040	0.002
Female stars	0.002	0.003	0.003	0.000	0	0.003	0.000
Films	0.000	0.000	0.000	0.000	0	0.000	0.000
Star pairs	0.000	0.000	0.000	0.000	0	0.001	0.000
Pizzas	0.000	0.000	0.000	0.000	0	0.000	0.000
Juices	0.001	0.002	0.002	0.000	0	0.002	0.000
Colours	0.002	0.002	0.002	0.000	0	0.002	0.000
Colour Combinations	0.000	0.000	0.000	0.000	0	0.000	0.000
Events	0.002	0.001	0.001	0.001	0	0.001	0.000
Radio formats	0.013	0.016	0.019	0.001	0	0.017	0.001
Musical artists	0.003	0.004	0.004	0.000	0	0.004	0.000
Aboriginal art	0.008	0.010	0.011	0.001	0	0.013	0.001
Impressionist art	0.006	0.007	0.007	0.001	0	0.007	0.000
Sentences	0.001	0.001	0.001	0.001	0	0.001	0.000
Travel	0.032	0.034	0.035	0.005	0	0.039	0.002
Marijuana	0.000	0.000	0.000	0.000	0	0.000	0.000
Latitude	0.000	0.000	0.000	0.000	0	0.000	0.000
Dots	0.004	0.004	0.003	0.001	0	0.005	0.000
Triangles	0.002	0.003	0.003	0.000	0	0.002	0.000
Population	0.001	0.001	0.001	0.000	0	0.001	0.000
Surface area	0.036	0.039	0.042	0.007	0	0.043	0.004
Beer	0.004	0.004	0.004	0.000	0	0.004	0.000
Cars	0.001	0.001	0.001	0.000	0	0.001	0.000
Restaurants	0.002	0.002	0.002	0.000	0	0.002	0.000
Flight layovers	0.001	0.001	0.001	0.000	0	0.001	0.000
Future payments	0.001	0.001	0.001	0.001	0	0.001	0.000
Phone plans	0.000	0.000	0.000	0.000	0	0.000	0.000
Hotel rooms	0.008	0.010	0.011	0.000	0	0.011	0.001
Two-flight itineraries	0.000	0.000	0.000	0.000	0	0.000	0.000
Televisions	0.016	0.015	0.014	0.006	0	0.014	0.001
Coffee	0.011	0.010	0.010	0.004	0	0.011	0.001
Charity	0.000	0.000	0.000	0.000	0	0.000	0.000


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	tiP1	tiP2	tiP3	tiuP	tiuPe	tisP	tisPe
Prior	0.792	0.887	0.940	0.494	0.001	0.940	0.000
Male stars	1.000	1.000	1.000	0.998	0.000	1.000	0.000
Female stars	1.000	1.000	1.000	1.000	0.000	1.000	0.000
Films	0.998	0.999	0.999	0.815	0.002	0.999	0.000
Star pairs	1.000	1.000	1.000	0.993	0.000	1.000	0.000
Pizzas	1.000	1.000	1.000	0.986	0.000	1.000	0.000
Juices	1.000	1.000	1.000	0.989	0.000	1.000	0.000
Colours	1.000	1.000	1.000	0.959	0.001	1.000	0.000
Colour Combinations	1.000	1.000	1.000	1.000	0.000	1.000	0.000
Events	0.996	0.998	0.999	0.925	0.001	0.999	0.000
Radio formats	1.000	1.000	1.000	0.975	0.001	1.000	0.000
Musical artists	1.000	1.000	1.000	0.996	0.000	1.000	0.000
Aboriginal art	1.000	1.000	1.000	0.999	0.000	1.000	0.000
Impressionist art	1.000	1.000	1.000	0.996	0.000	1.000	0.000
Sentences	1.000	1.000	1.000	0.995	0.000	1.000	0.000
Travel	1.000	1.000	1.000	0.994	0.000	1.000	0.000
Marijuana	0.993	0.996	0.998	0.753	0.002	0.997	0.000
Latitude	0.965	0.976	0.986	0.785	0.002	0.990	0.000
Dots	1.000	1.000	1.000	0.997	0.000	1.000	0.000
Triangles	1.000	1.000	1.000	0.977	0.001	1.000	0.000
Population	1.000	1.000	1.000	0.999	0.000	1.000	0.000
Surface area	1.000	1.000	1.000	0.997	0.000	1.000	0.000
Beer	0.977	0.986	0.992	0.751	0.002	0.992	0.001
Cars	1.000	1.000	1.000	0.996	0.000	1.000	0.000
Restaurants	0.996	0.997	0.999	0.940	0.001	0.999	0.000
Flight layovers	0.999	1.000	1.000	0.975	0.001	1.000	0.000
Future payments	0.999	1.000	1.000	0.993	0.000	1.000	0.000
Phone plans	0.999	1.000	1.000	0.983	0.000	1.000	0.000
Hotel rooms	1.000	1.000	1.000	0.848	0.001	1.000	0.000
Two-flight itineraries	1.000	1.000	1.000	0.998	0.000	1.000	0.000
Televisions	1.000	1.000	1.000	0.986	0.000	1.000	0.000
Coffee	1.000	1.000	1.000	0.997	0.000	1.000	0.000
Charity	0.990	0.994	0.997	0.852	0.002	0.996	0.000


```
#knitr::kable(result.table[,c('ruP1', 'ruP2', 'ruP3', 'ruPe4', 'ruP5', 'ruP6', 'ruP7', 'ruP8', 'rusP',
knitr::kable(result.table[,c('ruP1', 'ruP2', 'ruP3', 'rusP', 'rusPe')], digits=3)
```

	ruP1	ruP2	ruP3	rusP	rusPe
Prior	0.002	0.051	0.228	0.227	0.000
Male stars	0.025	0.159	0.400	0.398	0.002
Female stars	0.007	0.081	0.279	0.289	0.002
Films	0.017	0.130	0.358	0.359	0.002
Star pairs	0.016	0.128	0.358	0.357	0.002
Pizzas	0.011	0.105	0.324	0.325	0.002
Juices	0.011	0.101	0.316	0.318	0.002
Colours	0.013	0.113	0.334	0.330	0.002
Colour Combinations	0.013	0.116	0.343	0.333	0.002
Events	0.004	0.056	0.225	0.222	0.004
Radio formats	0.006	0.066	0.242	0.241	0.003
Musical artists	0.023	0.154	0.395	0.384	0.002
Aboriginal art	0.010	0.094	0.302	0.294	0.002
Impressionist art	0.015	0.122	0.347	0.358	0.002
Sentences	0.018	0.134	0.366	0.366	0.002
Travel	0.016	0.121	0.344	0.355	0.003
Marijuana	0.016	0.128	0.359	0.366	0.003
Latitude	0.007	0.073	0.259	0.287	0.005
Dots	0.024	0.157	0.397	0.395	0.002
Triangles	0.011	0.103	0.318	0.327	0.003
Population	0.023	0.156	0.399	0.389	0.002
Surface area	0.031	0.178	0.422	0.411	0.003
Beer	0.008	0.085	0.282	0.292	0.004
Cars	0.003	0.050	0.216	0.229	0.003
Restaurants	0.008	0.080	0.272	0.288	0.003
Flight layovers	0.006	0.075	0.268	0.268	0.003
Future payments	0.023	0.156	0.398	0.393	0.003
Phone plans	0.006	0.078	0.276	0.272	0.003
Hotel rooms	0.014	0.114	0.335	0.343	0.003
Two-flight itineraries	0.010	0.100	0.314	0.308	0.002
Televisions	0.027	0.166	0.408	0.408	0.002
Coffee	0.023	0.151	0.389	0.392	0.002
Charity	0.007	0.081	0.280	0.281	0.003

