

EDA_LA1

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```
happy <- read.csv(file.choose())
library(dplyr)

##
## Attaching package: 'dplyr'

## The following objects are masked from 'package:stats':
##
##   filter, lag

## The following objects are masked from 'package:base':
##
##   intersect, setdiff, setequal, union

happy

##   Overall.rank      Country.or.region Score GDP.per.capita
Social.support
## 1              1          Finland 7.769      1.340
1.587
## 2              2          Denmark 7.600      1.383
1.573
## 3              3          Norway 7.554      1.488
1.582
## 4              4          Iceland 7.494      1.380
1.624
## 5              5          Netherlands 7.488      1.396
1.522
## 6              6          Switzerland 7.480      1.452
1.526
## 7              7          Sweden 7.343      1.387
1.487
## 8              8          New Zealand 7.307      1.303
1.557
## 9              9          Canada 7.278      1.365
1.505
## 10             10          Austria 7.246      1.376
1.475
## 11             11          Australia 7.228      1.372
1.548
## 12             12          Costa Rica 7.167      1.034
1.441
```

## 13	13	Israel 7.139	1.276
1.455			
## 14	14	Luxembourg 7.090	1.609
1.479			
## 15	15	United Kingdom 7.054	1.333
1.538			
## 16	16	Ireland 7.021	1.499
1.553			
## 17	17	Germany 6.985	1.373
1.454			
## 18	18	Belgium 6.923	1.356
1.504			
## 19	19	United States 6.892	1.433
1.457			
## 20	20	Czech Republic 6.852	1.269
1.487			
## 21	21	United Arab Emirates 6.825	1.503
1.310			
## 22	22	Malta 6.726	1.300
1.520			
## 23	23	Mexico 6.595	1.070
1.323			
## 24	24	France 6.592	1.324
1.472			
## 25	25	Taiwan 6.446	1.368
1.430			
## 26	26	Chile 6.444	1.159
1.369			
## 27	27	Guatemala 6.436	0.800
1.269			
## 28	28	Saudi Arabia 6.375	1.403
1.357			
## 29	29	Qatar 6.374	1.684
1.313			
## 30	30	Spain 6.354	1.286
1.484			
## 31	31	Panama 6.321	1.149
1.442			
## 32	32	Brazil 6.300	1.004
1.439			
## 33	33	Uruguay 6.293	1.124
1.465			
## 34	34	Singapore 6.262	1.572
1.463			
## 35	35	El Salvador 6.253	0.794
1.242			
## 36	36	Italy 6.223	1.294
1.488			
## 37	37	Bahrain 6.199	1.362
1.368			

## 38 1.504	38	Slovakia 6.198	1.246
## 39 1.477	39	Trinidad & Tobago 6.192	1.231
## 40 1.438	40	Poland 6.182	1.206
## 41 1.529	41	Uzbekistan 6.174	0.745
## 42 1.515	42	Lithuania 6.149	1.238
## 43 1.410	43	Colombia 6.125	0.985
## 44 1.523	44	Slovenia 6.118	1.258
## 45 1.325	45	Nicaragua 6.105	0.694
## 46 1.232	46	Kosovo 6.100	0.882
## 47 1.432	47	Argentina 6.086	1.092
## 48 1.232	48	Romania 6.070	1.162
## 49 1.223	49	Cyprus 6.046	1.263
## 50 1.312	50	Ecuador 6.028	0.912
## 51 1.319	51	Kuwait 6.021	1.500
## 52 1.409	52	Thailand 6.008	1.050
## 53 1.465	53	Latvia 5.940	1.187
## 54 1.219	54	South Korea 5.895	1.301
## 55 1.528	55	Estonia 5.893	1.237
## 56 1.478	56	Jamaica 5.890	0.831
## 57 1.402	57	Mauritius 5.888	1.120
## 58 1.419	58	Japan 5.886	1.327
## 59 1.236	59	Honduras 5.860	0.642
## 60 1.508	60	Kazakhstan 5.809	1.173
## 61 1.209	61	Bolivia 5.779	0.776
## 62 1.410	62	Hungary 5.758	1.201

## 63 1.475	63	Paraguay 5.743	0.855
## 64 1.252	64	Northern Cyprus 5.718	1.263
## 65 1.274	65	Peru 5.697	0.960
## 66 1.431	66	Portugal 5.693	1.221
## 67 0.886	67	Pakistan 5.653	0.677
## 68 1.452	68	Russia 5.648	1.183
## 69 1.293	69	Philippines 5.631	0.807
## 70 1.383	70	Serbia 5.603	1.004
## 71 1.328	71	Moldova 5.529	0.685
## 72 1.303	72	Libya 5.525	1.044
## 73 1.361	73	Montenegro 5.523	1.051
## 74 1.098	74	Tajikistan 5.467	0.493
## 75 1.266	75	Croatia 5.432	1.155
## 76 1.277	76	Hong Kong 5.430	1.438
## 77 1.401	77	Dominican Republic 5.425	1.015
## 78 1.212	78	Bosnia and Herzegovina 5.386	0.945
## 79 1.360	79	Turkey 5.373	1.183
## 80 1.171	80	Malaysia 5.339	1.221
## 81 1.465	81	Belarus 5.323	1.067
## 82 1.156	82	Greece 5.287	1.181
## 83 1.531	83	Mongolia 5.285	0.948
## 84 1.294	84	North Macedonia 5.274	0.983
## 85 1.111	85	Nigeria 5.265	0.696
## 86 1.438	86	Kyrgyzstan 5.261	0.551
## 87 1.538	87	Turkmenistan 5.247	1.052

## 88	88	Algeria 5.211	1.002
1.160			
## 89	89	Morocco 5.208	0.801
0.782			
## 90	90	Azerbaijan 5.208	1.043
1.147			
## 91	91	Lebanon 5.197	0.987
1.224			
## 92	92	Indonesia 5.192	0.931
1.203			
## 93	93	China 5.191	1.029
1.125			
## 94	94	Vietnam 5.175	0.741
1.346			
## 95	95	Bhutan 5.082	0.813
1.321			
## 96	96	Cameroon 5.044	0.549
0.910			
## 97	97	Bulgaria 5.011	1.092
1.513			
## 98	98	Ghana 4.996	0.611
0.868			
## 99	99	Ivory Coast 4.944	0.569
0.808			
## 100	100	Nepal 4.913	0.446
1.226			
## 101	101	Jordan 4.906	0.837
1.225			
## 102	102	Benin 4.883	0.393
0.437			
## 103	103	Congo (Brazzaville) 4.812	0.673
0.799			
## 104	104	Gabon 4.799	1.057
1.183			
## 105	105	Laos 4.796	0.764
1.030			
## 106	106	South Africa 4.722	0.960
1.351			
## 107	107	Albania 4.719	0.947
0.848			
## 108	108	Venezuela 4.707	0.960
1.427			
## 109	109	Cambodia 4.700	0.574
1.122			
## 110	110	Palestinian Territories 4.696	0.657
1.247			
## 111	111	Senegal 4.681	0.450
1.134			
## 112	112	Somalia 4.668	0.000
0.698			

## 113	113	Namibia 4.639	0.879
1.313			
## 114	114	Niger 4.628	0.138
0.774			
## 115	115	Burkina Faso 4.587	0.331
1.056			
## 116	116	Armenia 4.559	0.850
1.055			
## 117	117	Iran 4.548	1.100
0.842			
## 118	118	Guinea 4.534	0.380
0.829			
## 119	119	Georgia 4.519	0.886
0.666			
## 120	120	Gambia 4.516	0.308
0.939			
## 121	121	Kenya 4.509	0.512
0.983			
## 122	122	Mauritania 4.490	0.570
1.167			
## 123	123	Mozambique 4.466	0.204
0.986			
## 124	124	Tunisia 4.461	0.921
1.000			
## 125	125	Bangladesh 4.456	0.562
0.928			
## 126	126	Iraq 4.437	1.043
0.980			
## 127	127	Congo (Kinshasa) 4.418	0.094
1.125			
## 128	128	Mali 4.390	0.385
1.105			
## 129	129	Sierra Leone 4.374	0.268
0.841			
## 130	130	Sri Lanka 4.366	0.949
1.265			
## 131	131	Myanmar 4.360	0.710
1.181			
## 132	132	Chad 4.350	0.350
0.766			
## 133	133	Ukraine 4.332	0.820
1.390			
## 134	134	Ethiopia 4.286	0.336
1.033			
## 135	135	Swaziland 4.212	0.811
1.149			
## 136	136	Uganda 4.189	0.332
1.069			
## 137	137	Egypt 4.166	0.913
1.039			

## 138	138	Zambia	4.107	0.578
1.058				
## 139	139	Togo	4.085	0.275
0.572				
## 140	140	India	4.015	0.755
0.765				
## 141	141	Liberia	3.975	0.073
0.922				
## 142	142	Comoros	3.973	0.274
0.757				
## 143	143	Madagascar	3.933	0.274
0.916				
## 144	144	Lesotho	3.802	0.489
1.169				
## 145	145	Burundi	3.775	0.046
0.447				
## 146	146	Zimbabwe	3.663	0.366
1.114				
## 147	147	Haiti	3.597	0.323
0.688				
## 148	148	Botswana	3.488	1.041
1.145				
## 149	149	Syria	3.462	0.619
0.378				
## 150	150	Malawi	3.410	0.191
0.560				
## 151	151	Yemen	3.380	0.287
1.163				
## 152	152	Rwanda	3.334	0.359
0.711				
## 153	153	Tanzania	3.231	0.476
0.885				
## 154	154	Afghanistan	3.203	0.350
0.517				
## 155	155	Central African Republic	3.083	0.026
0.000				
## 156	156	South Sudan	2.853	0.306
0.575				
##	Healthy.life.expectancy Freedom.to.make.life.choices Generosity			
## 1	0.986	0.596	0.153	
## 2	0.996	0.592	0.252	
## 3	1.028	0.603	0.271	
## 4	1.026	0.591	0.354	
## 5	0.999	0.557	0.322	
## 6	1.052	0.572	0.263	
## 7	1.009	0.574	0.267	
## 8	1.026	0.585	0.330	
## 9	1.039	0.584	0.285	
## 10	1.016	0.532	0.244	
## 11	1.036	0.557	0.332	

## 12	0.963	0.558	0.144
## 13	1.029	0.371	0.261
## 14	1.012	0.526	0.194
## 15	0.996	0.450	0.348
## 16	0.999	0.516	0.298
## 17	0.987	0.495	0.261
## 18	0.986	0.473	0.160
## 19	0.874	0.454	0.280
## 20	0.920	0.457	0.046
## 21	0.825	0.598	0.262
## 22	0.999	0.564	0.375
## 23	0.861	0.433	0.074
## 24	1.045	0.436	0.111
## 25	0.914	0.351	0.242
## 26	0.920	0.357	0.187
## 27	0.746	0.535	0.175
## 28	0.795	0.439	0.080
## 29	0.871	0.555	0.220
## 30	1.062	0.362	0.153
## 31	0.910	0.516	0.109
## 32	0.802	0.390	0.099
## 33	0.891	0.523	0.127
## 34	1.141	0.556	0.271
## 35	0.789	0.430	0.093
## 36	1.039	0.231	0.158
## 37	0.871	0.536	0.255
## 38	0.881	0.334	0.121
## 39	0.713	0.489	0.185
## 40	0.884	0.483	0.117
## 41	0.756	0.631	0.322
## 42	0.818	0.291	0.043
## 43	0.841	0.470	0.099
## 44	0.953	0.564	0.144
## 45	0.835	0.435	0.200
## 46	0.758	0.489	0.262
## 47	0.881	0.471	0.066
## 48	0.825	0.462	0.083
## 49	1.042	0.406	0.190
## 50	0.868	0.498	0.126
## 51	0.808	0.493	0.142
## 52	0.828	0.557	0.359
## 53	0.812	0.264	0.075
## 54	1.036	0.159	0.175
## 55	0.874	0.495	0.103
## 56	0.831	0.490	0.107
## 57	0.798	0.498	0.215
## 58	1.088	0.445	0.069
## 59	0.828	0.507	0.246
## 60	0.729	0.410	0.146
## 61	0.706	0.511	0.137

## 62	0.828	0.199	0.081
## 63	0.777	0.514	0.184
## 64	1.042	0.417	0.191
## 65	0.854	0.455	0.083
## 66	0.999	0.508	0.047
## 67	0.535	0.313	0.220
## 68	0.726	0.334	0.082
## 69	0.657	0.558	0.117
## 70	0.854	0.282	0.137
## 71	0.739	0.245	0.181
## 72	0.673	0.416	0.133
## 73	0.871	0.197	0.142
## 74	0.718	0.389	0.230
## 75	0.914	0.296	0.119
## 76	1.122	0.440	0.258
## 77	0.779	0.497	0.113
## 78	0.845	0.212	0.263
## 79	0.808	0.195	0.083
## 80	0.828	0.508	0.260
## 81	0.789	0.235	0.094
## 82	0.999	0.067	0.000
## 83	0.667	0.317	0.235
## 84	0.838	0.345	0.185
## 85	0.245	0.426	0.215
## 86	0.723	0.508	0.300
## 87	0.657	0.394	0.244
## 88	0.785	0.086	0.073
## 89	0.782	0.418	0.036
## 90	0.769	0.351	0.035
## 91	0.815	0.216	0.166
## 92	0.660	0.491	0.498
## 93	0.893	0.521	0.058
## 94	0.851	0.543	0.147
## 95	0.604	0.457	0.370
## 96	0.331	0.381	0.187
## 97	0.815	0.311	0.081
## 98	0.486	0.381	0.245
## 99	0.232	0.352	0.154
## 100	0.677	0.439	0.285
## 101	0.815	0.383	0.110
## 102	0.397	0.349	0.175
## 103	0.508	0.372	0.105
## 104	0.571	0.295	0.043
## 105	0.551	0.547	0.266
## 106	0.469	0.389	0.130
## 107	0.874	0.383	0.178
## 108	0.805	0.154	0.064
## 109	0.637	0.609	0.232
## 110	0.672	0.225	0.103
## 111	0.571	0.292	0.153

## 112	0.268	0.559	0.243
## 113	0.477	0.401	0.070
## 114	0.366	0.318	0.188
## 115	0.380	0.255	0.177
## 116	0.815	0.283	0.095
## 117	0.785	0.305	0.270
## 118	0.375	0.332	0.207
## 119	0.752	0.346	0.043
## 120	0.428	0.382	0.269
## 121	0.581	0.431	0.372
## 122	0.489	0.066	0.106
## 123	0.390	0.494	0.197
## 124	0.815	0.167	0.059
## 125	0.723	0.527	0.166
## 126	0.574	0.241	0.148
## 127	0.357	0.269	0.212
## 128	0.308	0.327	0.153
## 129	0.242	0.309	0.252
## 130	0.831	0.470	0.244
## 131	0.555	0.525	0.566
## 132	0.192	0.174	0.198
## 133	0.739	0.178	0.187
## 134	0.532	0.344	0.209
## 135	0.000	0.313	0.074
## 136	0.443	0.356	0.252
## 137	0.644	0.241	0.076
## 138	0.426	0.431	0.247
## 139	0.410	0.293	0.177
## 140	0.588	0.498	0.200
## 141	0.443	0.370	0.233
## 142	0.505	0.142	0.275
## 143	0.555	0.148	0.169
## 144	0.168	0.359	0.107
## 145	0.380	0.220	0.176
## 146	0.433	0.361	0.151
## 147	0.449	0.026	0.419
## 148	0.538	0.455	0.025
## 149	0.440	0.013	0.331
## 150	0.495	0.443	0.218
## 151	0.463	0.143	0.108
## 152	0.614	0.555	0.217
## 153	0.499	0.417	0.276
## 154	0.361	0.000	0.158
## 155	0.105	0.225	0.235
## 156	0.295	0.010	0.202
##	Perceptions.of.corruption		
## 1	0.393		
## 2	0.410		
## 3	0.341		
## 4	0.118		

## 5	0.298
## 6	0.343
## 7	0.373
## 8	0.380
## 9	0.308
## 10	0.226
## 11	0.290
## 12	0.093
## 13	0.082
## 14	0.316
## 15	0.278
## 16	0.310
## 17	0.265
## 18	0.210
## 19	0.128
## 20	0.036
## 21	0.182
## 22	0.151
## 23	0.073
## 24	0.183
## 25	0.097
## 26	0.056
## 27	0.078
## 28	0.132
## 29	0.167
## 30	0.079
## 31	0.054
## 32	0.086
## 33	0.150
## 34	0.453
## 35	0.074
## 36	0.030
## 37	0.110
## 38	0.014
## 39	0.016
## 40	0.050
## 41	0.240
## 42	0.042
## 43	0.034
## 44	0.057
## 45	0.127
## 46	0.006
## 47	0.050
## 48	0.005
## 49	0.041
## 50	0.087
## 51	0.097
## 52	0.028
## 53	0.064
## 54	0.056

## 55	0.161
## 56	0.028
## 57	0.060
## 58	0.140
## 59	0.078
## 60	0.096
## 61	0.064
## 62	0.020
## 63	0.080
## 64	0.162
## 65	0.027
## 66	0.025
## 67	0.098
## 68	0.031
## 69	0.107
## 70	0.039
## 71	0.000
## 72	0.152
## 73	0.080
## 74	0.144
## 75	0.022
## 76	0.287
## 77	0.101
## 78	0.006
## 79	0.106
## 80	0.024
## 81	0.142
## 82	0.034
## 83	0.038
## 84	0.034
## 85	0.041
## 86	0.023
## 87	0.028
## 88	0.114
## 89	0.076
## 90	0.182
## 91	0.027
## 92	0.028
## 93	0.100
## 94	0.073
## 95	0.167
## 96	0.037
## 97	0.004
## 98	0.040
## 99	0.090
## 100	0.089
## 101	0.130
## 102	0.082
## 103	0.093
## 104	0.055

## 105	0.164
## 106	0.055
## 107	0.027
## 108	0.047
## 109	0.062
## 110	0.066
## 111	0.072
## 112	0.270
## 113	0.056
## 114	0.102
## 115	0.113
## 116	0.064
## 117	0.125
## 118	0.086
## 119	0.164
## 120	0.167
## 121	0.053
## 122	0.088
## 123	0.138
## 124	0.055
## 125	0.143
## 126	0.089
## 127	0.053
## 128	0.052
## 129	0.045
## 130	0.047
## 131	0.172
## 132	0.078
## 133	0.010
## 134	0.100
## 135	0.135
## 136	0.060
## 137	0.067
## 138	0.087
## 139	0.085
## 140	0.085
## 141	0.033
## 142	0.078
## 143	0.041
## 144	0.093
## 145	0.180
## 146	0.089
## 147	0.110
## 148	0.100
## 149	0.141
## 150	0.089
## 151	0.077
## 152	0.411
## 153	0.147
## 154	0.025

```
## 155          0.035
## 156          0.091

class(happy)

## [1] "data.frame"

str(happy)

## 'data.frame': 156 obs. of 9 variables:
## $ Overall.rank      : int  1 2 3 4 5 6 7 8 9 10 ...
## $ Country.or.region : chr  "Finland" "Denmark" "Norway"
## "Iceland" ...
## $ Score              : num  7.77 7.6 7.55 7.49 7.49 ...
## $ GDP.per.capita     : num  1.34 1.38 1.49 1.38 1.4 ...
## $ Social.support     : num  1.59 1.57 1.58 1.62 1.52 ...
## $ Healthy.life.expectancy : num  0.986 0.996 1.028 1.026 0.999 ...
## $ Freedom.to.make.life.choices: num  0.596 0.592 0.603 0.591 0.557 0.572
## 0.574 0.585 0.584 0.532 ...
## $ Generosity         : num  0.153 0.252 0.271 0.354 0.322 0.263
## 0.267 0.33 0.285 0.244 ...
## $ Perceptions.of.corruption : num  0.393 0.41 0.341 0.118 0.298 0.343
## 0.373 0.38 0.308 0.226 ...

head(happy)

## Overall.rank Country.or.region Score GDP.per.capita Social.support
## 1 1 Finland 7.769 1.340 1.587
## 2 2 Denmark 7.600 1.383 1.573
## 3 3 Norway 7.554 1.488 1.582
## 4 4 Iceland 7.494 1.380 1.624
## 5 5 Netherlands 7.488 1.396 1.522
## 6 6 Switzerland 7.480 1.452 1.526
## Healthy.life.expectancy Freedom.to.make.life.choices Generosity
## 1 0.986 0.596 0.153
## 2 0.996 0.592 0.252
## 3 1.028 0.603 0.271
## 4 1.026 0.591 0.354
## 5 0.999 0.557 0.322
## 6 1.052 0.572 0.263
## Perceptions.of.corruption
## 1 0.393
## 2 0.410
## 3 0.341
## 4 0.118
## 5 0.298
## 6 0.343

tail(happy)

## Overall.rank Country.or.region Score GDP.per.capita
## Social.support
```

```

## 151      151      Yemen 3.380      0.287
1.163
## 152      152      Rwanda 3.334      0.359
0.711
## 153      153      Tanzania 3.231      0.476
0.885
## 154      154      Afghanistan 3.203      0.350
0.517
## 155      155 Central African Republic 3.083      0.026
0.000
## 156      156      South Sudan 2.853      0.306
0.575
##      Healthy.life.expectancy Freedom.to.make.life.choices Generosity
## 151      0.463      0.143      0.108
## 152      0.614      0.555      0.217
## 153      0.499      0.417      0.276
## 154      0.361      0.000      0.158
## 155      0.105      0.225      0.235
## 156      0.295      0.010      0.202
##      Perceptions.of.corruption
## 151      0.077
## 152      0.411
## 153      0.147
## 154      0.025
## 155      0.035
## 156      0.091

nrow(happy)

## [1] 156

ncol(happy)

## [1] 9

names(happy)

## [1] "Overall.rank"      "Country.or.region"
## [3] "Score"      "GDP.per.capita"
## [5] "Social.support"      "Healthy.life.expectancy"
## [7] "Freedom.to.make.life.choices" "Generosity"
## [9] "Perceptions.of.corruption"

rownames(happy)

## [1] "1" "2" "3" "4" "5" "6" "7" "8" "9" "10" "11"
"12"
## [13] "13" "14" "15" "16" "17" "18" "19" "20" "21" "22" "23"
"24"
## [25] "25" "26" "27" "28" "29" "30" "31" "32" "33" "34" "35"
"36"
## [37] "37" "38" "39" "40" "41" "42" "43" "44" "45" "46" "47"

```

```

"48"
## [49] "49" "50" "51" "52" "53" "54" "55" "56" "57" "58" "59"
"60"
## [61] "61" "62" "63" "64" "65" "66" "67" "68" "69" "70" "71"
"72"
## [73] "73" "74" "75" "76" "77" "78" "79" "80" "81" "82" "83"
"84"
## [85] "85" "86" "87" "88" "89" "90" "91" "92" "93" "94" "95"
"96"
## [97] "97" "98" "99" "100" "101" "102" "103" "104" "105" "106" "107"
"108"
## [109] "109" "110" "111" "112" "113" "114" "115" "116" "117" "118" "119"
"120"
## [121] "121" "122" "123" "124" "125" "126" "127" "128" "129" "130" "131"
"132"
## [133] "133" "134" "135" "136" "137" "138" "139" "140" "141" "142" "143"
"144"
## [145] "145" "146" "147" "148" "149" "150" "151" "152" "153" "154" "155"
"156"

```

```
colnames(happy)
```

```

## [1] "Overall.rank"          "Country.or.region"
## [3] "Score"                 "GDP.per.capita"
## [5] "Social.support"        "Healthy.life.expectancy"
## [7] "Freedom.to.make.life.choices" "Generosity"
## [9] "Perceptions.of.corruption"

```

```

selected_happy <- select(happy,Score)
selected_happy

```

```

##      Score
## 1  7.769
## 2  7.600
## 3  7.554
## 4  7.494
## 5  7.488
## 6  7.480
## 7  7.343
## 8  7.307
## 9  7.278
## 10 7.246
## 11 7.228
## 12 7.167
## 13 7.139
## 14 7.090
## 15 7.054
## 16 7.021
## 17 6.985
## 18 6.923
## 19 6.892

```


##	20	6.852
##	21	6.825
##	22	6.726
##	23	6.595
##	24	6.592
##	25	6.446
##	26	6.444
##	27	6.436
##	28	6.375
##	29	6.374
##	30	6.354
##	31	6.321
##	32	6.300
##	33	6.293
##	34	6.262
##	35	6.253
##	36	6.223
##	37	6.199
##	38	6.198
##	39	6.192
##	40	6.182
##	41	6.174
##	42	6.149
##	43	6.125
##	44	6.118
##	45	6.105
##	46	6.100
##	47	6.086
##	48	6.070
##	49	6.046
##	50	6.028
##	51	6.021
##	52	6.008
##	53	5.940
##	54	5.895
##	55	5.893
##	56	5.890
##	57	5.888
##	58	5.886
##	59	5.860
##	60	5.809
##	61	5.779
##	62	5.758
##	63	5.743
##	64	5.718
##	65	5.697
##	66	5.693
##	67	5.653
##	68	5.648
##	69	5.631

70 5.603
71 5.529
72 5.525
73 5.523
74 5.467
75 5.432
76 5.430
77 5.425
78 5.386
79 5.373
80 5.339
81 5.323
82 5.287
83 5.285
84 5.274
85 5.265
86 5.261
87 5.247
88 5.211
89 5.208
90 5.208
91 5.197
92 5.192
93 5.191
94 5.175
95 5.082
96 5.044
97 5.011
98 4.996
99 4.944
100 4.913
101 4.906
102 4.883
103 4.812
104 4.799
105 4.796
106 4.722
107 4.719
108 4.707
109 4.700
110 4.696
111 4.681
112 4.668
113 4.639
114 4.628
115 4.587
116 4.559
117 4.548
118 4.534
119 4.519

```
## 120 4.516
## 121 4.509
## 122 4.490
## 123 4.466
## 124 4.461
## 125 4.456
## 126 4.437
## 127 4.418
## 128 4.390
## 129 4.374
## 130 4.366
## 131 4.360
## 132 4.350
## 133 4.332
## 134 4.286
## 135 4.212
## 136 4.189
## 137 4.166
## 138 4.107
## 139 4.085
## 140 4.015
## 141 3.975
## 142 3.973
## 143 3.933
## 144 3.802
## 145 3.775
## 146 3.663
## 147 3.597
## 148 3.488
## 149 3.462
## 150 3.410
## 151 3.380
## 152 3.334
## 153 3.231
## 154 3.203
## 155 3.083
## 156 2.853
```

```
selected_happy1 <- select(happy, Country.or.region)
selected_happy1
```

```
##           Country.or.region
## 1                Finland
## 2                Denmark
## 3                Norway
## 4                Iceland
## 5            Netherlands
## 6            Switzerland
## 7                 Sweden
## 8            New Zealand
```

## 9	Canada
## 10	Austria
## 11	Australia
## 12	Costa Rica
## 13	Israel
## 14	Luxembourg
## 15	United Kingdom
## 16	Ireland
## 17	Germany
## 18	Belgium
## 19	United States
## 20	Czech Republic
## 21	United Arab Emirates
## 22	Malta
## 23	Mexico
## 24	France
## 25	Taiwan
## 26	Chile
## 27	Guatemala
## 28	Saudi Arabia
## 29	Qatar
## 30	Spain
## 31	Panama
## 32	Brazil
## 33	Uruguay
## 34	Singapore
## 35	El Salvador
## 36	Italy
## 37	Bahrain
## 38	Slovakia
## 39	Trinidad & Tobago
## 40	Poland
## 41	Uzbekistan
## 42	Lithuania
## 43	Colombia
## 44	Slovenia
## 45	Nicaragua
## 46	Kosovo
## 47	Argentina
## 48	Romania
## 49	Cyprus
## 50	Ecuador
## 51	Kuwait
## 52	Thailand
## 53	Latvia
## 54	South Korea
## 55	Estonia
## 56	Jamaica
## 57	Mauritius
## 58	Japan

## 59	Honduras
## 60	Kazakhstan
## 61	Bolivia
## 62	Hungary
## 63	Paraguay
## 64	Northern Cyprus
## 65	Peru
## 66	Portugal
## 67	Pakistan
## 68	Russia
## 69	Philippines
## 70	Serbia
## 71	Moldova
## 72	Libya
## 73	Montenegro
## 74	Tajikistan
## 75	Croatia
## 76	Hong Kong
## 77	Dominican Republic
## 78	Bosnia and Herzegovina
## 79	Turkey
## 80	Malaysia
## 81	Belarus
## 82	Greece
## 83	Mongolia
## 84	North Macedonia
## 85	Nigeria
## 86	Kyrgyzstan
## 87	Turkmenistan
## 88	Algeria
## 89	Morocco
## 90	Azerbaijan
## 91	Lebanon
## 92	Indonesia
## 93	China
## 94	Vietnam
## 95	Bhutan
## 96	Cameroon
## 97	Bulgaria
## 98	Ghana
## 99	Ivory Coast
## 100	Nepal
## 101	Jordan
## 102	Benin
## 103	Congo (Brazzaville)
## 104	Gabon
## 105	Laos
## 106	South Africa
## 107	Albania
## 108	Venezuela

```
## 109 Cambodia
## 110 Palestinian Territories
## 111 Senegal
## 112 Somalia
## 113 Namibia
## 114 Niger
## 115 Burkina Faso
## 116 Armenia
## 117 Iran
## 118 Guinea
## 119 Georgia
## 120 Gambia
## 121 Kenya
## 122 Mauritania
## 123 Mozambique
## 124 Tunisia
## 125 Bangladesh
## 126 Iraq
## 127 Congo (Kinshasa)
## 128 Mali
## 129 Sierra Leone
## 130 Sri Lanka
## 131 Myanmar
## 132 Chad
## 133 Ukraine
## 134 Ethiopia
## 135 Swaziland
## 136 Uganda
## 137 Egypt
## 138 Zambia
## 139 Togo
## 140 India
## 141 Liberia
## 142 Comoros
## 143 Madagascar
## 144 Lesotho
## 145 Burundi
## 146 Zimbabwe
## 147 Haiti
## 148 Botswana
## 149 Syria
## 150 Malawi
## 151 Yemen
## 152 Rwanda
## 153 Tanzania
## 154 Afghanistan
## 155 Central African Republic
## 156 South Sudan
```

```
arrange(happy, Score)
```

##	Overall.rank	Country.or.region	Score	GDP.per.capita
## 1	156	South Sudan	2.853	0.306
0.575				
## 2	155	Central African Republic	3.083	0.026
0.000				
## 3	154	Afghanistan	3.203	0.350
0.517				
## 4	153	Tanzania	3.231	0.476
0.885				
## 5	152	Rwanda	3.334	0.359
0.711				
## 6	151	Yemen	3.380	0.287
1.163				
## 7	150	Malawi	3.410	0.191
0.560				
## 8	149	Syria	3.462	0.619
0.378				
## 9	148	Botswana	3.488	1.041
1.145				
## 10	147	Haiti	3.597	0.323
0.688				
## 11	146	Zimbabwe	3.663	0.366
1.114				
## 12	145	Burundi	3.775	0.046
0.447				
## 13	144	Lesotho	3.802	0.489
1.169				
## 14	143	Madagascar	3.933	0.274
0.916				
## 15	142	Comoros	3.973	0.274
0.757				
## 16	141	Liberia	3.975	0.073
0.922				
## 17	140	India	4.015	0.755
0.765				
## 18	139	Togo	4.085	0.275
0.572				
## 19	138	Zambia	4.107	0.578
1.058				
## 20	137	Egypt	4.166	0.913
1.039				
## 21	136	Uganda	4.189	0.332
1.069				
## 22	135	Swaziland	4.212	0.811
1.149				
## 23	134	Ethiopia	4.286	0.336
1.033				
## 24	133	Ukraine	4.332	0.820
1.390				

## 25	132	Chad 4.350	0.350
0.766			
## 26	131	Myanmar 4.360	0.710
1.181			
## 27	130	Sri Lanka 4.366	0.949
1.265			
## 28	129	Sierra Leone 4.374	0.268
0.841			
## 29	128	Mali 4.390	0.385
1.105			
## 30	127	Congo (Kinshasa) 4.418	0.094
1.125			
## 31	126	Iraq 4.437	1.043
0.980			
## 32	125	Bangladesh 4.456	0.562
0.928			
## 33	124	Tunisia 4.461	0.921
1.000			
## 34	123	Mozambique 4.466	0.204
0.986			
## 35	122	Mauritania 4.490	0.570
1.167			
## 36	121	Kenya 4.509	0.512
0.983			
## 37	120	Gambia 4.516	0.308
0.939			
## 38	119	Georgia 4.519	0.886
0.666			
## 39	118	Guinea 4.534	0.380
0.829			
## 40	117	Iran 4.548	1.100
0.842			
## 41	116	Armenia 4.559	0.850
1.055			
## 42	115	Burkina Faso 4.587	0.331
1.056			
## 43	114	Niger 4.628	0.138
0.774			
## 44	113	Namibia 4.639	0.879
1.313			
## 45	112	Somalia 4.668	0.000
0.698			
## 46	111	Senegal 4.681	0.450
1.134			
## 47	110	Palestinian Territories 4.696	0.657
1.247			
## 48	109	Cambodia 4.700	0.574
1.122			
## 49	108	Venezuela 4.707	0.960
1.427			

## 50	107	Albania 4.719	0.947
0.848			
## 51	106	South Africa 4.722	0.960
1.351			
## 52	105	Laos 4.796	0.764
1.030			
## 53	104	Gabon 4.799	1.057
1.183			
## 54	103	Congo (Brazzaville) 4.812	0.673
0.799			
## 55	102	Benin 4.883	0.393
0.437			
## 56	101	Jordan 4.906	0.837
1.225			
## 57	100	Nepal 4.913	0.446
1.226			
## 58	99	Ivory Coast 4.944	0.569
0.808			
## 59	98	Ghana 4.996	0.611
0.868			
## 60	97	Bulgaria 5.011	1.092
1.513			
## 61	96	Cameroon 5.044	0.549
0.910			
## 62	95	Bhutan 5.082	0.813
1.321			
## 63	94	Vietnam 5.175	0.741
1.346			
## 64	93	China 5.191	1.029
1.125			
## 65	92	Indonesia 5.192	0.931
1.203			
## 66	91	Lebanon 5.197	0.987
1.224			
## 67	89	Morocco 5.208	0.801
0.782			
## 68	90	Azerbaijan 5.208	1.043
1.147			
## 69	88	Algeria 5.211	1.002
1.160			
## 70	87	Turkmenistan 5.247	1.052
1.538			
## 71	86	Kyrgyzstan 5.261	0.551
1.438			
## 72	85	Nigeria 5.265	0.696
1.111			
## 73	84	North Macedonia 5.274	0.983
1.294			
## 74	83	Mongolia 5.285	0.948
1.531			

## 75	82	Greece 5.287	1.181
1.156			
## 76	81	Belarus 5.323	1.067
1.465			
## 77	80	Malaysia 5.339	1.221
1.171			
## 78	79	Turkey 5.373	1.183
1.360			
## 79	78	Bosnia and Herzegovina 5.386	0.945
1.212			
## 80	77	Dominican Republic 5.425	1.015
1.401			
## 81	76	Hong Kong 5.430	1.438
1.277			
## 82	75	Croatia 5.432	1.155
1.266			
## 83	74	Tajikistan 5.467	0.493
1.098			
## 84	73	Montenegro 5.523	1.051
1.361			
## 85	72	Libya 5.525	1.044
1.303			
## 86	71	Moldova 5.529	0.685
1.328			
## 87	70	Serbia 5.603	1.004
1.383			
## 88	69	Philippines 5.631	0.807
1.293			
## 89	68	Russia 5.648	1.183
1.452			
## 90	67	Pakistan 5.653	0.677
0.886			
## 91	66	Portugal 5.693	1.221
1.431			
## 92	65	Peru 5.697	0.960
1.274			
## 93	64	Northern Cyprus 5.718	1.263
1.252			
## 94	63	Paraguay 5.743	0.855
1.475			
## 95	62	Hungary 5.758	1.201
1.410			
## 96	61	Bolivia 5.779	0.776
1.209			
## 97	60	Kazakhstan 5.809	1.173
1.508			
## 98	59	Honduras 5.860	0.642
1.236			
## 99	58	Japan 5.886	1.327
1.419			

## 100	57	Mauritius 5.888	1.120
1.402			
## 101	56	Jamaica 5.890	0.831
1.478			
## 102	55	Estonia 5.893	1.237
1.528			
## 103	54	South Korea 5.895	1.301
1.219			
## 104	53	Latvia 5.940	1.187
1.465			
## 105	52	Thailand 6.008	1.050
1.409			
## 106	51	Kuwait 6.021	1.500
1.319			
## 107	50	Ecuador 6.028	0.912
1.312			
## 108	49	Cyprus 6.046	1.263
1.223			
## 109	48	Romania 6.070	1.162
1.232			
## 110	47	Argentina 6.086	1.092
1.432			
## 111	46	Kosovo 6.100	0.882
1.232			
## 112	45	Nicaragua 6.105	0.694
1.325			
## 113	44	Slovenia 6.118	1.258
1.523			
## 114	43	Colombia 6.125	0.985
1.410			
## 115	42	Lithuania 6.149	1.238
1.515			
## 116	41	Uzbekistan 6.174	0.745
1.529			
## 117	40	Poland 6.182	1.206
1.438			
## 118	39	Trinidad & Tobago 6.192	1.231
1.477			
## 119	38	Slovakia 6.198	1.246
1.504			
## 120	37	Bahrain 6.199	1.362
1.368			
## 121	36	Italy 6.223	1.294
1.488			
## 122	35	El Salvador 6.253	0.794
1.242			
## 123	34	Singapore 6.262	1.572
1.463			
## 124	33	Uruguay 6.293	1.124
1.465			

## 125	32	Brazil 6.300	1.004
1.439			
## 126	31	Panama 6.321	1.149
1.442			
## 127	30	Spain 6.354	1.286
1.484			
## 128	29	Qatar 6.374	1.684
1.313			
## 129	28	Saudi Arabia 6.375	1.403
1.357			
## 130	27	Guatemala 6.436	0.800
1.269			
## 131	26	Chile 6.444	1.159
1.369			
## 132	25	Taiwan 6.446	1.368
1.430			
## 133	24	France 6.592	1.324
1.472			
## 134	23	Mexico 6.595	1.070
1.323			
## 135	22	Malta 6.726	1.300
1.520			
## 136	21	United Arab Emirates 6.825	1.503
1.310			
## 137	20	Czech Republic 6.852	1.269
1.487			
## 138	19	United States 6.892	1.433
1.457			
## 139	18	Belgium 6.923	1.356
1.504			
## 140	17	Germany 6.985	1.373
1.454			
## 141	16	Ireland 7.021	1.499
1.553			
## 142	15	United Kingdom 7.054	1.333
1.538			
## 143	14	Luxembourg 7.090	1.609
1.479			
## 144	13	Israel 7.139	1.276
1.455			
## 145	12	Costa Rica 7.167	1.034
1.441			
## 146	11	Australia 7.228	1.372
1.548			
## 147	10	Austria 7.246	1.376
1.475			
## 148	9	Canada 7.278	1.365
1.505			
## 149	8	New Zealand 7.307	1.303
1.557			

## 150	7	Sweden 7.343	1.387
1.487			
## 151	6	Switzerland 7.480	1.452
1.526			
## 152	5	Netherlands 7.488	1.396
1.522			
## 153	4	Iceland 7.494	1.380
1.624			
## 154	3	Norway 7.554	1.488
1.582			
## 155	2	Denmark 7.600	1.383
1.573			
## 156	1	Finland 7.769	1.340
1.587			
##	Healthy.life.expectancy Freedom.to.make.life.choices Generosity		
## 1	0.295	0.010	0.202
## 2	0.105	0.225	0.235
## 3	0.361	0.000	0.158
## 4	0.499	0.417	0.276
## 5	0.614	0.555	0.217
## 6	0.463	0.143	0.108
## 7	0.495	0.443	0.218
## 8	0.440	0.013	0.331
## 9	0.538	0.455	0.025
## 10	0.449	0.026	0.419
## 11	0.433	0.361	0.151
## 12	0.380	0.220	0.176
## 13	0.168	0.359	0.107
## 14	0.555	0.148	0.169
## 15	0.505	0.142	0.275
## 16	0.443	0.370	0.233
## 17	0.588	0.498	0.200
## 18	0.410	0.293	0.177
## 19	0.426	0.431	0.247
## 20	0.644	0.241	0.076
## 21	0.443	0.356	0.252
## 22	0.000	0.313	0.074
## 23	0.532	0.344	0.209
## 24	0.739	0.178	0.187
## 25	0.192	0.174	0.198
## 26	0.555	0.525	0.566
## 27	0.831	0.470	0.244
## 28	0.242	0.309	0.252
## 29	0.308	0.327	0.153
## 30	0.357	0.269	0.212
## 31	0.574	0.241	0.148
## 32	0.723	0.527	0.166
## 33	0.815	0.167	0.059
## 34	0.390	0.494	0.197
## 35	0.489	0.066	0.106

## 36	0.581	0.431	0.372
## 37	0.428	0.382	0.269
## 38	0.752	0.346	0.043
## 39	0.375	0.332	0.207
## 40	0.785	0.305	0.270
## 41	0.815	0.283	0.095
## 42	0.380	0.255	0.177
## 43	0.366	0.318	0.188
## 44	0.477	0.401	0.070
## 45	0.268	0.559	0.243
## 46	0.571	0.292	0.153
## 47	0.672	0.225	0.103
## 48	0.637	0.609	0.232
## 49	0.805	0.154	0.064
## 50	0.874	0.383	0.178
## 51	0.469	0.389	0.130
## 52	0.551	0.547	0.266
## 53	0.571	0.295	0.043
## 54	0.508	0.372	0.105
## 55	0.397	0.349	0.175
## 56	0.815	0.383	0.110
## 57	0.677	0.439	0.285
## 58	0.232	0.352	0.154
## 59	0.486	0.381	0.245
## 60	0.815	0.311	0.081
## 61	0.331	0.381	0.187
## 62	0.604	0.457	0.370
## 63	0.851	0.543	0.147
## 64	0.893	0.521	0.058
## 65	0.660	0.491	0.498
## 66	0.815	0.216	0.166
## 67	0.782	0.418	0.036
## 68	0.769	0.351	0.035
## 69	0.785	0.086	0.073
## 70	0.657	0.394	0.244
## 71	0.723	0.508	0.300
## 72	0.245	0.426	0.215
## 73	0.838	0.345	0.185
## 74	0.667	0.317	0.235
## 75	0.999	0.067	0.000
## 76	0.789	0.235	0.094
## 77	0.828	0.508	0.260
## 78	0.808	0.195	0.083
## 79	0.845	0.212	0.263
## 80	0.779	0.497	0.113
## 81	1.122	0.440	0.258
## 82	0.914	0.296	0.119
## 83	0.718	0.389	0.230
## 84	0.871	0.197	0.142
## 85	0.673	0.416	0.133

## 86	0.739	0.245	0.181
## 87	0.854	0.282	0.137
## 88	0.657	0.558	0.117
## 89	0.726	0.334	0.082
## 90	0.535	0.313	0.220
## 91	0.999	0.508	0.047
## 92	0.854	0.455	0.083
## 93	1.042	0.417	0.191
## 94	0.777	0.514	0.184
## 95	0.828	0.199	0.081
## 96	0.706	0.511	0.137
## 97	0.729	0.410	0.146
## 98	0.828	0.507	0.246
## 99	1.088	0.445	0.069
## 100	0.798	0.498	0.215
## 101	0.831	0.490	0.107
## 102	0.874	0.495	0.103
## 103	1.036	0.159	0.175
## 104	0.812	0.264	0.075
## 105	0.828	0.557	0.359
## 106	0.808	0.493	0.142
## 107	0.868	0.498	0.126
## 108	1.042	0.406	0.190
## 109	0.825	0.462	0.083
## 110	0.881	0.471	0.066
## 111	0.758	0.489	0.262
## 112	0.835	0.435	0.200
## 113	0.953	0.564	0.144
## 114	0.841	0.470	0.099
## 115	0.818	0.291	0.043
## 116	0.756	0.631	0.322
## 117	0.884	0.483	0.117
## 118	0.713	0.489	0.185
## 119	0.881	0.334	0.121
## 120	0.871	0.536	0.255
## 121	1.039	0.231	0.158
## 122	0.789	0.430	0.093
## 123	1.141	0.556	0.271
## 124	0.891	0.523	0.127
## 125	0.802	0.390	0.099
## 126	0.910	0.516	0.109
## 127	1.062	0.362	0.153
## 128	0.871	0.555	0.220
## 129	0.795	0.439	0.080
## 130	0.746	0.535	0.175
## 131	0.920	0.357	0.187
## 132	0.914	0.351	0.242
## 133	1.045	0.436	0.111
## 134	0.861	0.433	0.074
## 135	0.999	0.564	0.375

## 136	0.825	0.598	0.262
## 137	0.920	0.457	0.046
## 138	0.874	0.454	0.280
## 139	0.986	0.473	0.160
## 140	0.987	0.495	0.261
## 141	0.999	0.516	0.298
## 142	0.996	0.450	0.348
## 143	1.012	0.526	0.194
## 144	1.029	0.371	0.261
## 145	0.963	0.558	0.144
## 146	1.036	0.557	0.332
## 147	1.016	0.532	0.244
## 148	1.039	0.584	0.285
## 149	1.026	0.585	0.330
## 150	1.009	0.574	0.267
## 151	1.052	0.572	0.263
## 152	0.999	0.557	0.322
## 153	1.026	0.591	0.354
## 154	1.028	0.603	0.271
## 155	0.996	0.592	0.252
## 156	0.986	0.596	0.153

Perceptions.of.corruption

## 1	0.091
## 2	0.035
## 3	0.025
## 4	0.147
## 5	0.411
## 6	0.077
## 7	0.089
## 8	0.141
## 9	0.100
## 10	0.110
## 11	0.089
## 12	0.180
## 13	0.093
## 14	0.041
## 15	0.078
## 16	0.033
## 17	0.085
## 18	0.085
## 19	0.087
## 20	0.067
## 21	0.060
## 22	0.135
## 23	0.100
## 24	0.010
## 25	0.078
## 26	0.172
## 27	0.047
## 28	0.045

## 29	0.052
## 30	0.053
## 31	0.089
## 32	0.143
## 33	0.055
## 34	0.138
## 35	0.088
## 36	0.053
## 37	0.167
## 38	0.164
## 39	0.086
## 40	0.125
## 41	0.064
## 42	0.113
## 43	0.102
## 44	0.056
## 45	0.270
## 46	0.072
## 47	0.066
## 48	0.062
## 49	0.047
## 50	0.027
## 51	0.055
## 52	0.164
## 53	0.055
## 54	0.093
## 55	0.082
## 56	0.130
## 57	0.089
## 58	0.090
## 59	0.040
## 60	0.004
## 61	0.037
## 62	0.167
## 63	0.073
## 64	0.100
## 65	0.028
## 66	0.027
## 67	0.076
## 68	0.182
## 69	0.114
## 70	0.028
## 71	0.023
## 72	0.041
## 73	0.034
## 74	0.038
## 75	0.034
## 76	0.142
## 77	0.024
## 78	0.106

## 79	0.006
## 80	0.101
## 81	0.287
## 82	0.022
## 83	0.144
## 84	0.080
## 85	0.152
## 86	0.000
## 87	0.039
## 88	0.107
## 89	0.031
## 90	0.098
## 91	0.025
## 92	0.027
## 93	0.162
## 94	0.080
## 95	0.020
## 96	0.064
## 97	0.096
## 98	0.078
## 99	0.140
## 100	0.060
## 101	0.028
## 102	0.161
## 103	0.056
## 104	0.064
## 105	0.028
## 106	0.097
## 107	0.087
## 108	0.041
## 109	0.005
## 110	0.050
## 111	0.006
## 112	0.127
## 113	0.057
## 114	0.034
## 115	0.042
## 116	0.240
## 117	0.050
## 118	0.016
## 119	0.014
## 120	0.110
## 121	0.030
## 122	0.074
## 123	0.453
## 124	0.150
## 125	0.086
## 126	0.054
## 127	0.079
## 128	0.167

```
## 129          0.132
## 130          0.078
## 131          0.056
## 132          0.097
## 133          0.183
## 134          0.073
## 135          0.151
## 136          0.182
## 137          0.036
## 138          0.128
## 139          0.210
## 140          0.265
## 141          0.310
## 142          0.278
## 143          0.316
## 144          0.082
## 145          0.093
## 146          0.290
## 147          0.226
## 148          0.308
## 149          0.380
## 150          0.373
## 151          0.343
## 152          0.298
## 153          0.118
## 154          0.341
## 155          0.410
## 156          0.393
```

```
group_by(happy, Country.or.region )
```

```
## # A tibble: 156 × 9
```

```
## # Groups:   Country.or.region [156]
```

	Overall.rank	Country.or.region	Score	GDP.per.capita	Social.support
	<int>	<chr>	<dbl>	<dbl>	<dbl>
## 1	1	Finland	7.77	1.34	1.59
## 2	2	Denmark	7.6	1.38	1.57
## 3	3	Norway	7.55	1.49	1.58
## 4	4	Iceland	7.49	1.38	1.62
## 5	5	Netherlands	7.49	1.40	1.52
## 6	6	Switzerland	7.48	1.45	1.53
## 7	7	Sweden	7.34	1.39	1.49
## 8	8	New Zealand	7.31	1.30	1.56
## 9	9	Canada	7.28	1.36	1.50
## 10	10	Austria	7.25	1.38	1.48

```
## # i 146 more rows
```

```
## # i 4 more variables: Healthy.life.expectancy <dbl>,
```

```
## #   Freedom.to.make.life.choices <dbl>, Generosity <dbl>,
```

```
## #   Perceptions.of.corruption <dbl>
```

```
summary(happy)
```

```
## Overall.rank Country.or.region Score GDP.per.capita
## Min. : 1.00 Length:156 Min. :2.853 Min. :0.0000
## 1st Qu.: 39.75 Class :character 1st Qu.:4.545 1st Qu.:0.6028
## Median : 78.50 Mode :character Median :5.380 Median :0.9600
## Mean : 78.50 Mean :5.407 Mean :0.9051
## 3rd Qu.:117.25 3rd Qu.:6.184 3rd Qu.:1.2325
## Max. :156.00 Max. :7.769 Max. :1.6840
## Social.support Healthy.life.expectancy Freedom.to.make.life.choices
## Min. :0.000 Min. :0.0000 Min. :0.0000
## 1st Qu.:1.056 1st Qu.:0.5477 1st Qu.:0.3080
## Median :1.272 Median :0.7890 Median :0.4170
## Mean :1.209 Mean :0.7252 Mean :0.3926
## 3rd Qu.:1.452 3rd Qu.:0.8818 3rd Qu.:0.5072
## Max. :1.624 Max. :1.1410 Max. :0.6310
## Generosity Perceptions.of.corruption
## Min. :0.0000 Min. :0.0000
## 1st Qu.:0.1087 1st Qu.:0.0470
## Median :0.1775 Median :0.0855
## Mean :0.1848 Mean :0.1106
## 3rd Qu.:0.2482 3rd Qu.:0.1412
## Max. :0.5660 Max. :0.4530
```

```
sum(happy$Score)
```

```
## [1] 843.507
```

```
mean(happy$Score)
```

```
## [1] 5.407096
```

```
median(happy$Score)
```

```
## [1] 5.3795
```

```
sd(happy$Score)
```

```
## [1] 1.11312
```

```
cor(happy$Score,happy$GDP.per.capita)
```

```
## [1] 0.7938829
```

```
table(happy$GDP.per.capita)
```

```
##
## 0 0.026 0.046 0.073 0.094 0.138 0.191 0.204 0.268 0.274 0.275 0.287
0.306
## 1 1 1 1 1 1 1 1 1 2 1 1
1
## 0.308 0.323 0.331 0.332 0.336 0.35 0.359 0.366 0.38 0.385 0.393 0.446
0.45
```

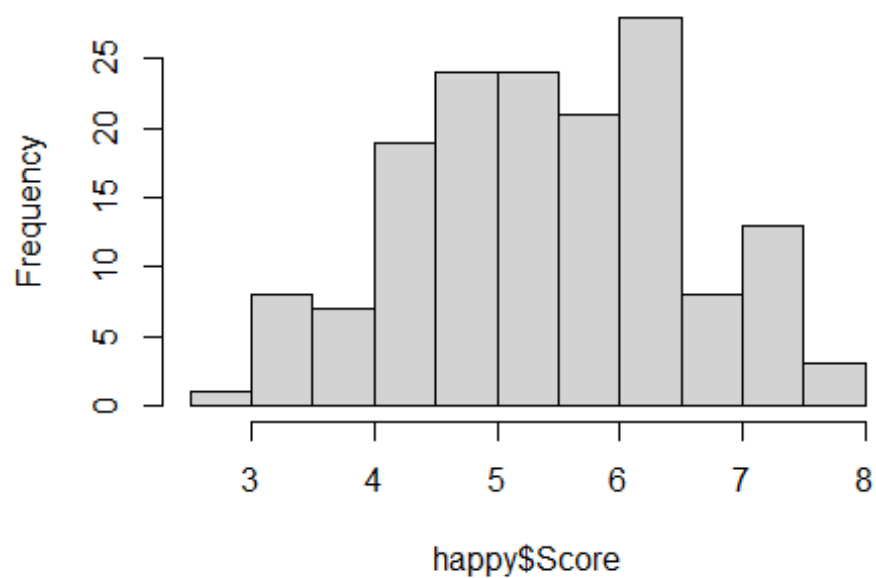
```

##      1      1      1      1      1      2      1      1      1      1      1      1      1
1
## 0.476 0.489 0.493 0.512 0.549 0.551 0.562 0.569 0.57 0.574 0.578 0.611
0.619
##      1      1      1      1      1      1      1      1      1      1      1      1      1
1
## 0.642 0.657 0.673 0.677 0.685 0.694 0.696 0.71 0.741 0.745 0.755 0.764
0.776
##      1      1      1      1      1      1      1      1      1      1      1      1      1
1
## 0.794 0.8 0.801 0.807 0.811 0.813 0.82 0.831 0.837 0.85 0.855 0.879
0.882
##      1      1      1      1      1      1      1      1      1      1      1      1      1
1
## 0.886 0.912 0.913 0.921 0.931 0.945 0.947 0.948 0.949 0.96 0.983 0.985
0.987
##      1      1      1      1      1      1      1      1      1      1      3      1      1
1
## 1.002 1.004 1.015 1.029 1.034 1.041 1.043 1.044 1.05 1.051 1.052 1.057
1.067
##      1      2      1      1      1      1      2      1      1      1      1      1      1
1
## 1.07 1.092 1.1 1.12 1.124 1.149 1.155 1.159 1.162 1.173 1.181 1.183
1.187
##      1      2      1      1      1      1      1      1      1      1      1      1      2
1
## 1.201 1.206 1.221 1.231 1.237 1.238 1.246 1.258 1.263 1.269 1.276 1.286
1.294
##      1      1      2      1      1      1      1      1      2      1      1      1      1
1
## 1.3 1.301 1.303 1.324 1.327 1.333 1.34 1.356 1.362 1.365 1.368 1.372
1.373
##      1      1      1      1      1      1      1      1      1      1      1      1      1
1
## 1.376 1.38 1.383 1.387 1.396 1.403 1.433 1.438 1.452 1.488 1.499 1.5
1.503
##      1      1      1      1      1      1      1      1      1      1      1      1      1
1
## 1.572 1.609 1.684
##      1      1      1

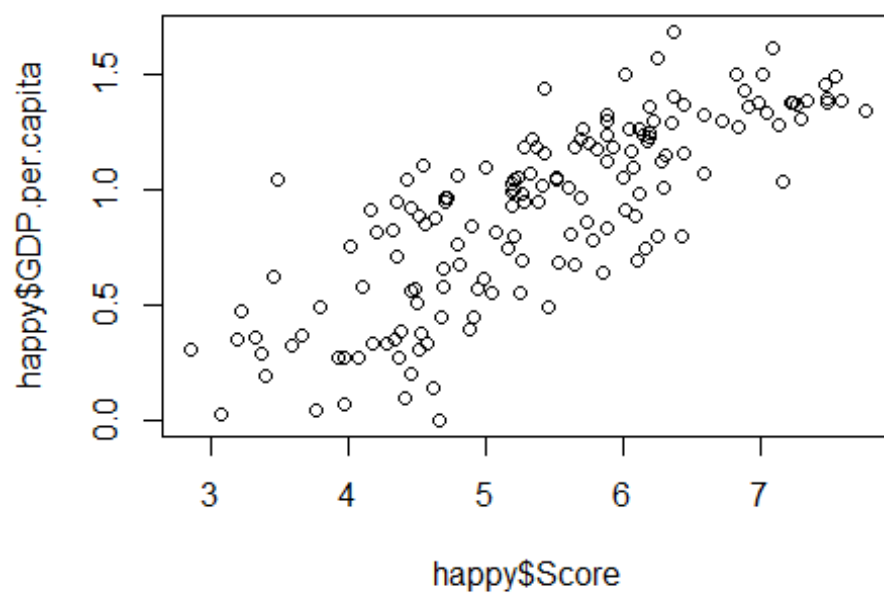
```

```
hist(happy$Score)
```

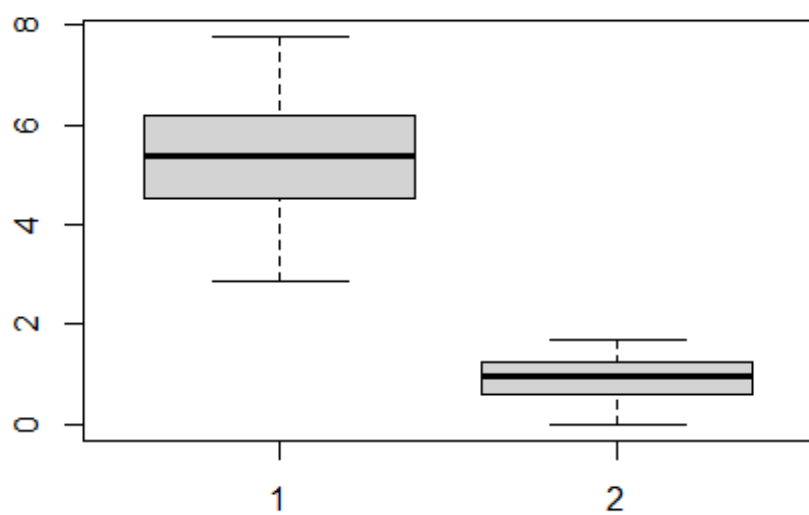
Histogram of happy\$Score



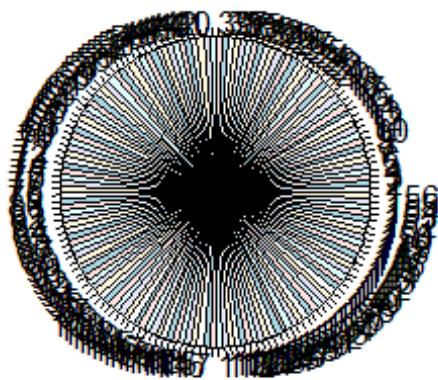
```
plot(x = happy$Score, y = happy$GDP.per.capita)
```



```
boxplot(happy$Score, happy$GDP.per.capita)
```



```
pie(table(happy$Overall.rank))
```



```
happy1 <- read.csv(file.choose())
```

```

ls()

## [1] "happy"          "happy1"          "selected_happy"
## [2] "selected_happy1"

colnames(happy1)

## [1] "Overall.rank"          "Country.or.region"
## [3] "Score"                 "GDP.per.capita"
## [5] "Social.support"        "Healthy.life.expectancy"
## [7] "Freedom.to.make.life.choices" "Generosity"
## [9] "Perceptions.of.corruption"

merge(happy, happy1, by = "GDP.per.capita")

##      GDP.per.capita Overall.rank.x      Country.or.region.x Score.x
## 1      0.000      112      Somalia      4.668
## 2      0.308      120      Gambia      4.516
## 3      0.332      136      Uganda      4.189
## 4      0.332      136      Uganda      4.189
## 5      0.493       74      Tajikistan      5.467
## 6      0.549       96      Cameroon      5.044
## 7      0.562      125      Bangladesh      4.456
## 8      0.642       59      Honduras      5.860
## 9      0.657      110 Palestinian Territories      4.696
## 10     0.807       69      Philippines      5.631
## 11     0.855       63      Paraguay      5.743
## 12     0.960      106      South Africa      4.722
## 13     0.960       65      Peru      5.697
## 14     0.960      108      Venezuela      4.707
## 15     0.985       43      Colombia      6.125
## 16     1.294       36      Italy      6.223
## 17     1.301       54      South Korea      5.895
## 18     1.324       24      France      6.592
## 19     1.340        1      Finland      7.769
## 20     1.340        1      Finland      7.769
## 21     1.365        9      Canada      7.278
##      Social.support.x Healthy.life.expectancy.x
## Freedom.to.make.life.choices.x
## 1      0.698      0.268
## 0.559
## 2      0.939      0.428
## 0.382
## 3      1.069      0.443
## 0.356
## 4      1.069      0.443
## 0.356
## 5      1.098      0.718
## 0.389
## 6      0.910      0.331
## 0.381

```


## 7	0.928	0.723
0.527		
## 8	1.236	0.828
0.507		
## 9	1.247	0.672
0.225		
## 10	1.293	0.657
0.558		
## 11	1.475	0.777
0.514		
## 12	1.351	0.469
0.389		
## 13	1.274	0.854
0.455		
## 14	1.427	0.805
0.154		
## 15	1.410	0.841
0.470		
## 16	1.488	1.039
0.231		
## 17	1.219	1.036
0.159		
## 18	1.472	1.045
0.436		
## 19	1.587	0.986
0.596		
## 20	1.587	0.986
0.596		
## 21	1.505	1.039
0.584		

##	Generosity.x	Perceptions.of.corruption.x	Overall.rank.y
## 1	0.243	0.270	98
## 2	0.269	0.167	127
## 3	0.252	0.060	145
## 4	0.252	0.060	151
## 5	0.230	0.144	124
## 6	0.187	0.037	120
## 7	0.166	0.143	125
## 8	0.246	0.078	104
## 9	0.103	0.066	67
## 10	0.117	0.107	49
## 11	0.184	0.080	66
## 12	0.130	0.055	37
## 13	0.083	0.027	37
## 14	0.064	0.047	37
## 15	0.099	0.034	70
## 16	0.158	0.030	54
## 17	0.175	0.056	19
## 18	0.111	0.183	16
## 19	0.153	0.393	15

## 20	0.153	0.393	10
## 21	0.285	0.308	26
##	Country.or.region.y	Score.y	Social.support.y
Healthy.life.expectancy.y			
## 1	Somalia	4.982	0.712
0.115			
## 2	Ethiopia	4.350	0.950
0.391			
## 3	Afghanistan	3.632	0.537
0.255			
## 4	Rwanda	3.408	0.896
0.400			
## 5	Kenya	4.410	1.048
0.454			
## 6	Cambodia	4.433	1.088
0.457			
## 7	Zambia	4.377	1.047
0.295			
## 8	Palestinian Territories	4.743	1.217
0.602			
## 9	Moldova	5.640	1.301
0.620			
## 10	Belize	5.956	1.101
0.474			
## 11	Kosovo	5.662	1.230
0.578			
## 12	Colombia	6.260	1.439
0.635			
## 13	Colombia	6.260	1.439
0.635			
## 14	Colombia	6.260	1.439
0.635			
## 15	Libya	5.566	1.350
0.553			
## 16	Japan	5.915	1.462
0.988			
## 17	Israel	6.814	1.559
0.883			
## 18	Belgium	6.927	1.483
0.894			
## 19	Germany	6.965	1.474
0.861			
## 20	Australia	7.272	1.573
0.910			
## 21	Taiwan	6.441	1.436
0.857			
##	Freedom.to.make.life.choices.y	Generosity.y	Perceptions.of.corruption.y
## 1	0.674	0.238	0.282
## 2	0.452	0.220	0.146
## 3	0.085	0.191	0.036

## 4	0.636	0.200	0.444
## 5	0.504	0.352	0.055
## 6	0.696	0.256	0.065
## 7	0.503	0.221	0.082
## 8	0.266	0.086	0.076
## 9	0.232	0.171	0.000
## 10	0.593	0.183	0.089
## 11	0.448	0.274	0.023
## 12	0.531	0.099	0.039
## 13	0.531	0.099	0.039
## 14	0.531	0.099	0.039
## 15	0.496	0.116	0.148
## 16	0.553	0.079	0.150
## 17	0.533	0.354	0.272
## 18	0.583	0.188	0.240
## 19	0.586	0.273	0.280
## 20	0.647	0.361	0.302
## 21	0.418	0.151	0.078

```
rbind(happy, happy1)
```

##	Overall.rank	Country.or.region	Score	GDP.per.capita
## 1	1	Finland	7.769	1.340
1.587				
## 2	2	Denmark	7.600	1.383
1.573				
## 3	3	Norway	7.554	1.488
1.582				
## 4	4	Iceland	7.494	1.380
1.624				
## 5	5	Netherlands	7.488	1.396
1.522				
## 6	6	Switzerland	7.480	1.452
1.526				
## 7	7	Sweden	7.343	1.387
1.487				
## 8	8	New Zealand	7.307	1.303
1.557				
## 9	9	Canada	7.278	1.365
1.505				
## 10	10	Austria	7.246	1.376
1.475				
## 11	11	Australia	7.228	1.372
1.548				
## 12	12	Costa Rica	7.167	1.034
1.441				
## 13	13	Israel	7.139	1.276
1.455				
## 14	14	Luxembourg	7.090	1.609

1.479			
## 15	15	United Kingdom 7.054	1.333
1.538			
## 16	16	Ireland 7.021	1.499
1.553			
## 17	17	Germany 6.985	1.373
1.454			
## 18	18	Belgium 6.923	1.356
1.504			
## 19	19	United States 6.892	1.433
1.457			
## 20	20	Czech Republic 6.852	1.269
1.487			
## 21	21	United Arab Emirates 6.825	1.503
1.310			
## 22	22	Malta 6.726	1.300
1.520			
## 23	23	Mexico 6.595	1.070
1.323			
## 24	24	France 6.592	1.324
1.472			
## 25	25	Taiwan 6.446	1.368
1.430			
## 26	26	Chile 6.444	1.159
1.369			
## 27	27	Guatemala 6.436	0.800
1.269			
## 28	28	Saudi Arabia 6.375	1.403
1.357			
## 29	29	Qatar 6.374	1.684
1.313			
## 30	30	Spain 6.354	1.286
1.484			
## 31	31	Panama 6.321	1.149
1.442			
## 32	32	Brazil 6.300	1.004
1.439			
## 33	33	Uruguay 6.293	1.124
1.465			
## 34	34	Singapore 6.262	1.572
1.463			
## 35	35	El Salvador 6.253	0.794
1.242			
## 36	36	Italy 6.223	1.294
1.488			
## 37	37	Bahrain 6.199	1.362
1.368			
## 38	38	Slovakia 6.198	1.246
1.504			
## 39	39	Trinidad & Tobago 6.192	1.231

1.477			
## 40	40	Poland 6.182	1.206
1.438			
## 41	41	Uzbekistan 6.174	0.745
1.529			
## 42	42	Lithuania 6.149	1.238
1.515			
## 43	43	Colombia 6.125	0.985
1.410			
## 44	44	Slovenia 6.118	1.258
1.523			
## 45	45	Nicaragua 6.105	0.694
1.325			
## 46	46	Kosovo 6.100	0.882
1.232			
## 47	47	Argentina 6.086	1.092
1.432			
## 48	48	Romania 6.070	1.162
1.232			
## 49	49	Cyprus 6.046	1.263
1.223			
## 50	50	Ecuador 6.028	0.912
1.312			
## 51	51	Kuwait 6.021	1.500
1.319			
## 52	52	Thailand 6.008	1.050
1.409			
## 53	53	Latvia 5.940	1.187
1.465			
## 54	54	South Korea 5.895	1.301
1.219			
## 55	55	Estonia 5.893	1.237
1.528			
## 56	56	Jamaica 5.890	0.831
1.478			
## 57	57	Mauritius 5.888	1.120
1.402			
## 58	58	Japan 5.886	1.327
1.419			
## 59	59	Honduras 5.860	0.642
1.236			
## 60	60	Kazakhstan 5.809	1.173
1.508			
## 61	61	Bolivia 5.779	0.776
1.209			
## 62	62	Hungary 5.758	1.201
1.410			
## 63	63	Paraguay 5.743	0.855
1.475			
## 64	64	Northern Cyprus 5.718	1.263

1.252			
## 65	65	Peru 5.697	0.960
1.274			
## 66	66	Portugal 5.693	1.221
1.431			
## 67	67	Pakistan 5.653	0.677
0.886			
## 68	68	Russia 5.648	1.183
1.452			
## 69	69	Philippines 5.631	0.807
1.293			
## 70	70	Serbia 5.603	1.004
1.383			
## 71	71	Moldova 5.529	0.685
1.328			
## 72	72	Libya 5.525	1.044
1.303			
## 73	73	Montenegro 5.523	1.051
1.361			
## 74	74	Tajikistan 5.467	0.493
1.098			
## 75	75	Croatia 5.432	1.155
1.266			
## 76	76	Hong Kong 5.430	1.438
1.277			
## 77	77	Dominican Republic 5.425	1.015
1.401			
## 78	78	Bosnia and Herzegovina 5.386	0.945
1.212			
## 79	79	Turkey 5.373	1.183
1.360			
## 80	80	Malaysia 5.339	1.221
1.171			
## 81	81	Belarus 5.323	1.067
1.465			
## 82	82	Greece 5.287	1.181
1.156			
## 83	83	Mongolia 5.285	0.948
1.531			
## 84	84	North Macedonia 5.274	0.983
1.294			
## 85	85	Nigeria 5.265	0.696
1.111			
## 86	86	Kyrgyzstan 5.261	0.551
1.438			
## 87	87	Turkmenistan 5.247	1.052
1.538			
## 88	88	Algeria 5.211	1.002
1.160			
## 89	89	Morocco 5.208	0.801

0.782			
## 90	90	Azerbaijan 5.208	1.043
1.147			
## 91	91	Lebanon 5.197	0.987
1.224			
## 92	92	Indonesia 5.192	0.931
1.203			
## 93	93	China 5.191	1.029
1.125			
## 94	94	Vietnam 5.175	0.741
1.346			
## 95	95	Bhutan 5.082	0.813
1.321			
## 96	96	Cameroon 5.044	0.549
0.910			
## 97	97	Bulgaria 5.011	1.092
1.513			
## 98	98	Ghana 4.996	0.611
0.868			
## 99	99	Ivory Coast 4.944	0.569
0.808			
## 100	100	Nepal 4.913	0.446
1.226			
## 101	101	Jordan 4.906	0.837
1.225			
## 102	102	Benin 4.883	0.393
0.437			
## 103	103	Congo (Brazzaville) 4.812	0.673
0.799			
## 104	104	Gabon 4.799	1.057
1.183			
## 105	105	Laos 4.796	0.764
1.030			
## 106	106	South Africa 4.722	0.960
1.351			
## 107	107	Albania 4.719	0.947
0.848			
## 108	108	Venezuela 4.707	0.960
1.427			
## 109	109	Cambodia 4.700	0.574
1.122			
## 110	110	Palestinian Territories 4.696	0.657
1.247			
## 111	111	Senegal 4.681	0.450
1.134			
## 112	112	Somalia 4.668	0.000
0.698			
## 113	113	Namibia 4.639	0.879
1.313			
## 114	114	Niger 4.628	0.138

0.774			
## 115	115	Burkina Faso 4.587	0.331
1.056			
## 116	116	Armenia 4.559	0.850
1.055			
## 117	117	Iran 4.548	1.100
0.842			
## 118	118	Guinea 4.534	0.380
0.829			
## 119	119	Georgia 4.519	0.886
0.666			
## 120	120	Gambia 4.516	0.308
0.939			
## 121	121	Kenya 4.509	0.512
0.983			
## 122	122	Mauritania 4.490	0.570
1.167			
## 123	123	Mozambique 4.466	0.204
0.986			
## 124	124	Tunisia 4.461	0.921
1.000			
## 125	125	Bangladesh 4.456	0.562
0.928			
## 126	126	Iraq 4.437	1.043
0.980			
## 127	127	Congo (Kinshasa) 4.418	0.094
1.125			
## 128	128	Mali 4.390	0.385
1.105			
## 129	129	Sierra Leone 4.374	0.268
0.841			
## 130	130	Sri Lanka 4.366	0.949
1.265			
## 131	131	Myanmar 4.360	0.710
1.181			
## 132	132	Chad 4.350	0.350
0.766			
## 133	133	Ukraine 4.332	0.820
1.390			
## 134	134	Ethiopia 4.286	0.336
1.033			
## 135	135	Swaziland 4.212	0.811
1.149			
## 136	136	Uganda 4.189	0.332
1.069			
## 137	137	Egypt 4.166	0.913
1.039			
## 138	138	Zambia 4.107	0.578
1.058			
## 139	139	Togo 4.085	0.275

0.572			
## 140	140	India 4.015	0.755
0.765			
## 141	141	Liberia 3.975	0.073
0.922			
## 142	142	Comoros 3.973	0.274
0.757			
## 143	143	Madagascar 3.933	0.274
0.916			
## 144	144	Lesotho 3.802	0.489
1.169			
## 145	145	Burundi 3.775	0.046
0.447			
## 146	146	Zimbabwe 3.663	0.366
1.114			
## 147	147	Haiti 3.597	0.323
0.688			
## 148	148	Botswana 3.488	1.041
1.145			
## 149	149	Syria 3.462	0.619
0.378			
## 150	150	Malawi 3.410	0.191
0.560			
## 151	151	Yemen 3.380	0.287
1.163			
## 152	152	Rwanda 3.334	0.359
0.711			
## 153	153	Tanzania 3.231	0.476
0.885			
## 154	154	Afghanistan 3.203	0.350
0.517			
## 155	155	Central African Republic 3.083	0.026
0.000			
## 156	156	South Sudan 2.853	0.306
0.575			
## 157	1	Finland 7.632	1.305
1.592			
## 158	2	Norway 7.594	1.456
1.582			
## 159	3	Denmark 7.555	1.351
1.590			
## 160	4	Iceland 7.495	1.343
1.644			
## 161	5	Switzerland 7.487	1.420
1.549			
## 162	6	Netherlands 7.441	1.361
1.488			
## 163	7	Canada 7.328	1.330
1.532			
## 164	8	New Zealand 7.324	1.268

1.601			
## 165	9	Sweden 7.314	1.355
1.501			
## 166	10	Australia 7.272	1.340
1.573			
## 167	11	United Kingdom 7.190	1.244
1.433			
## 168	12	Austria 7.139	1.341
1.504			
## 169	13	Costa Rica 7.072	1.010
1.459			
## 170	14	Ireland 6.977	1.448
1.583			
## 171	15	Germany 6.965	1.340
1.474			
## 172	16	Belgium 6.927	1.324
1.483			
## 173	17	Luxembourg 6.910	1.576
1.520			
## 174	18	United States 6.886	1.398
1.471			
## 175	19	Israel 6.814	1.301
1.559			
## 176	20	United Arab Emirates 6.774	2.096
0.776			
## 177	21	Czech Republic 6.711	1.233
1.489			
## 178	22	Malta 6.627	1.270
1.525			
## 179	23	France 6.489	1.293
1.466			
## 180	24	Mexico 6.488	1.038
1.252			
## 181	25	Chile 6.476	1.131
1.331			
## 182	26	Taiwan 6.441	1.365
1.436			
## 183	27	Panama 6.430	1.112
1.438			
## 184	28	Brazil 6.419	0.986
1.474			
## 185	29	Argentina 6.388	1.073
1.468			
## 186	30	Guatemala 6.382	0.781
1.268			
## 187	31	Uruguay 6.379	1.093
1.459			
## 188	32	Qatar 6.374	1.649
1.303			
## 189	33	Saudi Arabia 6.371	1.379

1.331			
## 190	34	Singapore 6.343	1.529
1.451			
## 191	35	Malaysia 6.322	1.161
1.258			
## 192	36	Spain 6.310	1.251
1.538			
## 193	37	Colombia 6.260	0.960
1.439			
## 194	38	Trinidad & Tobago 6.192	1.223
1.492			
## 195	39	Slovakia 6.173	1.210
1.537			
## 196	40	El Salvador 6.167	0.806
1.231			
## 197	41	Nicaragua 6.141	0.668
1.319			
## 198	42	Poland 6.123	1.176
1.448			
## 199	43	Bahrain 6.105	1.338
1.366			
## 200	44	Uzbekistan 6.096	0.719
1.584			
## 201	45	Kuwait 6.083	1.474
1.301			
## 202	46	Thailand 6.072	1.016
1.417			
## 203	47	Italy 6.000	1.264
1.501			
## 204	48	Ecuador 5.973	0.889
1.330			
## 205	49	Belize 5.956	0.807
1.101			
## 206	50	Lithuania 5.952	1.197
1.527			
## 207	51	Slovenia 5.948	1.219
1.506			
## 208	52	Romania 5.945	1.116
1.219			
## 209	53	Latvia 5.933	1.148
1.454			
## 210	54	Japan 5.915	1.294
1.462			
## 211	55	Mauritius 5.891	1.090
1.387			
## 212	56	Jamaica 5.890	0.819
1.493			
## 213	57	South Korea 5.875	1.266
1.204			
## 214	58	Northern Cyprus 5.835	1.229

1.211			
## 215	59	Russia 5.810	1.151
1.479			
## 216	60	Kazakhstan 5.790	1.143
1.516			
## 217	61	Cyprus 5.762	1.229
1.191			
## 218	62	Bolivia 5.752	0.751
1.223			
## 219	63	Estonia 5.739	1.200
1.532			
## 220	64	Paraguay 5.681	0.835
1.522			
## 221	65	Peru 5.663	0.934
1.249			
## 222	66	Kosovo 5.662	0.855
1.230			
## 223	67	Moldova 5.640	0.657
1.301			
## 224	68	Turkmenistan 5.636	1.016
1.533			
## 225	69	Hungary 5.620	1.171
1.401			
## 226	70	Libya 5.566	0.985
1.350			
## 227	71	Philippines 5.524	0.775
1.312			
## 228	72	Honduras 5.504	0.620
1.205			
## 229	73	Belarus 5.483	1.039
1.498			
## 230	74	Turkey 5.483	1.148
1.380			
## 231	75	Pakistan 5.472	0.652
0.810			
## 232	76	Hong Kong 5.430	1.405
1.290			
## 233	77	Portugal 5.410	1.188
1.429			
## 234	78	Serbia 5.398	0.975
1.369			
## 235	79	Greece 5.358	1.154
1.202			
## 236	80	Lebanon 5.358	0.965
1.179			
## 237	81	Montenegro 5.347	1.017
1.279			
## 238	82	Croatia 5.321	1.115
1.161			
## 239	83	Dominican Republic 5.302	0.982

1.441			
## 240	84	Algeria 5.295	0.979
1.154			
## 241	85	Morocco 5.254	0.779
0.797			
## 242	86	China 5.246	0.989
1.142			
## 243	87	Azerbaijan 5.201	1.024
1.161			
## 244	88	Tajikistan 5.199	0.474
1.166			
## 245	89	Macedonia 5.185	0.959
1.239			
## 246	90	Jordan 5.161	0.822
1.265			
## 247	91	Nigeria 5.155	0.689
1.172			
## 248	92	Kyrgyzstan 5.131	0.530
1.416			
## 249	93	Bosnia and Herzegovina 5.129	0.915
1.078			
## 250	94	Mongolia 5.125	0.914
1.517			
## 251	95	Vietnam 5.103	0.715
1.365			
## 252	96	Indonesia 5.093	0.899
1.215			
## 253	97	Bhutan 5.082	0.796
1.335			
## 254	98	Somalia 4.982	0.000
0.712			
## 255	99	Cameroon 4.975	0.535
0.891			
## 256	100	Bulgaria 4.933	1.054
1.515			
## 257	101	Nepal 4.880	0.425
1.228			
## 258	102	Venezuela 4.806	0.996
1.469			
## 259	103	Gabon 4.758	1.036
1.164			
## 260	104	Palestinian Territories 4.743	0.642
1.217			
## 261	105	South Africa 4.724	0.940
1.410			
## 262	106	Iran 4.707	1.059
0.771			
## 263	107	Ivory Coast 4.671	0.541
0.872			
## 264	108	Ghana 4.657	0.592

0.896			
## 265	109	Senegal 4.631	0.429
1.117			
## 266	110	Laos 4.623	0.720
1.034			
## 267	111	Tunisia 4.592	0.900
0.906			
## 268	112	Albania 4.586	0.916
0.817			
## 269	113	Sierra Leone 4.571	0.256
0.813			
## 270	114	Congo (Brazzaville) 4.559	0.682
0.811			
## 271	115	Bangladesh 4.500	0.532
0.850			
## 272	116	Sri Lanka 4.471	0.918
1.314			
## 273	117	Iraq 4.456	1.010
0.971			
## 274	118	Mali 4.447	0.370
1.233			
## 275	119	Namibia 4.441	0.874
1.281			
## 276	120	Cambodia 4.433	0.549
1.088			
## 277	121	Burkina Faso 4.424	0.314
1.097			
## 278	122	Egypt 4.419	0.885
1.025			
## 279	123	Mozambique 4.417	0.198
0.902			
## 280	124	Kenya 4.410	0.493
1.048			
## 281	125	Zambia 4.377	0.562
1.047			
## 282	126	Mauritania 4.356	0.557
1.245			
## 283	127	Ethiopia 4.350	0.308
0.950			
## 284	128	Georgia 4.340	0.853
0.592			
## 285	129	Armenia 4.321	0.816
0.990			
## 286	130	Myanmar 4.308	0.682
1.174			
## 287	131	Chad 4.301	0.358
0.907			
## 288	132	Congo (Kinshasa) 4.245	0.069
1.136			
## 289	133	India 4.190	0.721

0.747				
## 290	134	Niger	4.166	0.131
0.867				
## 291	135	Uganda	4.161	0.322
1.090				
## 292	136	Benin	4.141	0.378
0.372				
## 293	137	Sudan	4.139	0.605
1.240				
## 294	138	Ukraine	4.103	0.793
1.413				
## 295	139	Togo	3.999	0.259
0.474				
## 296	140	Guinea	3.964	0.344
0.792				
## 297	141	Lesotho	3.808	0.472
1.215				
## 298	142	Angola	3.795	0.730
1.125				
## 299	143	Madagascar	3.774	0.262
0.908				
## 300	144	Zimbabwe	3.692	0.357
1.094				
## 301	145	Afghanistan	3.632	0.332
0.537				
## 302	146	Botswana	3.590	1.017
1.174				
## 303	147	Malawi	3.587	0.186
0.541				
## 304	148	Haiti	3.582	0.315
0.714				
## 305	149	Liberia	3.495	0.076
0.858				
## 306	150	Syria	3.462	0.689
0.382				
## 307	151	Rwanda	3.408	0.332
0.896				
## 308	152	Yemen	3.355	0.442
1.073				
## 309	153	Tanzania	3.303	0.455
0.991				
## 310	154	South Sudan	3.254	0.337
0.608				
## 311	155	Central African Republic	3.083	0.024
0.000				
## 312	156	Burundi	2.905	0.091
0.627				
##	Healthy.life.expectancy Freedom.to.make.life.choices Generosity			
## 1	0.986		0.596	0.153
## 2	0.996		0.592	0.252

## 3	1.028	0.603	0.271
## 4	1.026	0.591	0.354
## 5	0.999	0.557	0.322
## 6	1.052	0.572	0.263
## 7	1.009	0.574	0.267
## 8	1.026	0.585	0.330
## 9	1.039	0.584	0.285
## 10	1.016	0.532	0.244
## 11	1.036	0.557	0.332
## 12	0.963	0.558	0.144
## 13	1.029	0.371	0.261
## 14	1.012	0.526	0.194
## 15	0.996	0.450	0.348
## 16	0.999	0.516	0.298
## 17	0.987	0.495	0.261
## 18	0.986	0.473	0.160
## 19	0.874	0.454	0.280
## 20	0.920	0.457	0.046
## 21	0.825	0.598	0.262
## 22	0.999	0.564	0.375
## 23	0.861	0.433	0.074
## 24	1.045	0.436	0.111
## 25	0.914	0.351	0.242
## 26	0.920	0.357	0.187
## 27	0.746	0.535	0.175
## 28	0.795	0.439	0.080
## 29	0.871	0.555	0.220
## 30	1.062	0.362	0.153
## 31	0.910	0.516	0.109
## 32	0.802	0.390	0.099
## 33	0.891	0.523	0.127
## 34	1.141	0.556	0.271
## 35	0.789	0.430	0.093
## 36	1.039	0.231	0.158
## 37	0.871	0.536	0.255
## 38	0.881	0.334	0.121
## 39	0.713	0.489	0.185
## 40	0.884	0.483	0.117
## 41	0.756	0.631	0.322
## 42	0.818	0.291	0.043
## 43	0.841	0.470	0.099
## 44	0.953	0.564	0.144
## 45	0.835	0.435	0.200
## 46	0.758	0.489	0.262
## 47	0.881	0.471	0.066
## 48	0.825	0.462	0.083
## 49	1.042	0.406	0.190
## 50	0.868	0.498	0.126
## 51	0.808	0.493	0.142
## 52	0.828	0.557	0.359

## 53	0.812	0.264	0.075
## 54	1.036	0.159	0.175
## 55	0.874	0.495	0.103
## 56	0.831	0.490	0.107
## 57	0.798	0.498	0.215
## 58	1.088	0.445	0.069
## 59	0.828	0.507	0.246
## 60	0.729	0.410	0.146
## 61	0.706	0.511	0.137
## 62	0.828	0.199	0.081
## 63	0.777	0.514	0.184
## 64	1.042	0.417	0.191
## 65	0.854	0.455	0.083
## 66	0.999	0.508	0.047
## 67	0.535	0.313	0.220
## 68	0.726	0.334	0.082
## 69	0.657	0.558	0.117
## 70	0.854	0.282	0.137
## 71	0.739	0.245	0.181
## 72	0.673	0.416	0.133
## 73	0.871	0.197	0.142
## 74	0.718	0.389	0.230
## 75	0.914	0.296	0.119
## 76	1.122	0.440	0.258
## 77	0.779	0.497	0.113
## 78	0.845	0.212	0.263
## 79	0.808	0.195	0.083
## 80	0.828	0.508	0.260
## 81	0.789	0.235	0.094
## 82	0.999	0.067	0.000
## 83	0.667	0.317	0.235
## 84	0.838	0.345	0.185
## 85	0.245	0.426	0.215
## 86	0.723	0.508	0.300
## 87	0.657	0.394	0.244
## 88	0.785	0.086	0.073
## 89	0.782	0.418	0.036
## 90	0.769	0.351	0.035
## 91	0.815	0.216	0.166
## 92	0.660	0.491	0.498
## 93	0.893	0.521	0.058
## 94	0.851	0.543	0.147
## 95	0.604	0.457	0.370
## 96	0.331	0.381	0.187
## 97	0.815	0.311	0.081
## 98	0.486	0.381	0.245
## 99	0.232	0.352	0.154
## 100	0.677	0.439	0.285
## 101	0.815	0.383	0.110
## 102	0.397	0.349	0.175

## 103	0.508	0.372	0.105
## 104	0.571	0.295	0.043
## 105	0.551	0.547	0.266
## 106	0.469	0.389	0.130
## 107	0.874	0.383	0.178
## 108	0.805	0.154	0.064
## 109	0.637	0.609	0.232
## 110	0.672	0.225	0.103
## 111	0.571	0.292	0.153
## 112	0.268	0.559	0.243
## 113	0.477	0.401	0.070
## 114	0.366	0.318	0.188
## 115	0.380	0.255	0.177
## 116	0.815	0.283	0.095
## 117	0.785	0.305	0.270
## 118	0.375	0.332	0.207
## 119	0.752	0.346	0.043
## 120	0.428	0.382	0.269
## 121	0.581	0.431	0.372
## 122	0.489	0.066	0.106
## 123	0.390	0.494	0.197
## 124	0.815	0.167	0.059
## 125	0.723	0.527	0.166
## 126	0.574	0.241	0.148
## 127	0.357	0.269	0.212
## 128	0.308	0.327	0.153
## 129	0.242	0.309	0.252
## 130	0.831	0.470	0.244
## 131	0.555	0.525	0.566
## 132	0.192	0.174	0.198
## 133	0.739	0.178	0.187
## 134	0.532	0.344	0.209
## 135	0.000	0.313	0.074
## 136	0.443	0.356	0.252
## 137	0.644	0.241	0.076
## 138	0.426	0.431	0.247
## 139	0.410	0.293	0.177
## 140	0.588	0.498	0.200
## 141	0.443	0.370	0.233
## 142	0.505	0.142	0.275
## 143	0.555	0.148	0.169
## 144	0.168	0.359	0.107
## 145	0.380	0.220	0.176
## 146	0.433	0.361	0.151
## 147	0.449	0.026	0.419
## 148	0.538	0.455	0.025
## 149	0.440	0.013	0.331
## 150	0.495	0.443	0.218
## 151	0.463	0.143	0.108
## 152	0.614	0.555	0.217

## 153	0.499	0.417	0.276
## 154	0.361	0.000	0.158
## 155	0.105	0.225	0.235
## 156	0.295	0.010	0.202
## 157	0.874	0.681	0.202
## 158	0.861	0.686	0.286
## 159	0.868	0.683	0.284
## 160	0.914	0.677	0.353
## 161	0.927	0.660	0.256
## 162	0.878	0.638	0.333
## 163	0.896	0.653	0.321
## 164	0.876	0.669	0.365
## 165	0.913	0.659	0.285
## 166	0.910	0.647	0.361
## 167	0.888	0.464	0.262
## 168	0.891	0.617	0.242
## 169	0.817	0.632	0.143
## 170	0.876	0.614	0.307
## 171	0.861	0.586	0.273
## 172	0.894	0.583	0.188
## 173	0.896	0.632	0.196
## 174	0.819	0.547	0.291
## 175	0.883	0.533	0.354
## 176	0.670	0.284	0.186
## 177	0.854	0.543	0.064
## 178	0.884	0.645	0.376
## 179	0.908	0.520	0.098
## 180	0.761	0.479	0.069
## 181	0.808	0.431	0.197
## 182	0.857	0.418	0.151
## 183	0.759	0.597	0.125
## 184	0.675	0.493	0.110
## 185	0.744	0.570	0.062
## 186	0.608	0.604	0.179
## 187	0.771	0.625	0.130
## 188	0.748	0.654	0.256
## 189	0.633	0.509	0.098
## 190	1.008	0.631	0.261
## 191	0.669	0.356	0.311
## 192	0.965	0.449	0.142
## 193	0.635	0.531	0.099
## 194	0.564	0.575	0.171
## 195	0.776	0.354	0.118
## 196	0.639	0.461	0.065
## 197	0.700	0.527	0.208
## 198	0.781	0.546	0.108
## 199	0.698	0.594	0.243
## 200	0.605	0.724	0.328
## 201	0.675	0.554	0.167
## 202	0.707	0.637	0.364

## 203	0.946	0.281	0.137
## 204	0.736	0.556	0.114
## 205	0.474	0.593	0.183
## 206	0.716	0.350	0.026
## 207	0.856	0.633	0.160
## 208	0.726	0.528	0.088
## 209	0.671	0.363	0.092
## 210	0.988	0.553	0.079
## 211	0.684	0.584	0.245
## 212	0.693	0.575	0.096
## 213	0.955	0.244	0.175
## 214	0.909	0.495	0.179
## 215	0.599	0.399	0.065
## 216	0.631	0.454	0.148
## 217	0.909	0.423	0.202
## 218	0.508	0.606	0.141
## 219	0.737	0.553	0.086
## 220	0.615	0.541	0.162
## 221	0.674	0.530	0.092
## 222	0.578	0.448	0.274
## 223	0.620	0.232	0.171
## 224	0.517	0.417	0.199
## 225	0.732	0.259	0.061
## 226	0.553	0.496	0.116
## 227	0.513	0.643	0.120
## 228	0.622	0.459	0.197
## 229	0.700	0.307	0.101
## 230	0.686	0.324	0.106
## 231	0.424	0.334	0.216
## 232	1.030	0.524	0.246
## 233	0.884	0.562	0.055
## 234	0.685	0.288	0.134
## 235	0.879	0.131	0.000
## 236	0.785	0.503	0.214
## 237	0.729	0.259	0.111
## 238	0.737	0.380	0.120
## 239	0.614	0.578	0.120
## 240	0.687	0.077	0.055
## 241	0.669	0.460	0.026
## 242	0.799	0.597	0.029
## 243	0.603	0.430	0.031
## 244	0.598	0.292	0.187
## 245	0.691	0.394	0.173
## 246	0.645	0.468	0.130
## 247	0.048	0.462	0.201
## 248	0.594	0.540	0.281
## 249	0.758	0.280	0.216
## 250	0.575	0.395	0.253
## 251	0.702	0.618	0.177
## 252	0.522	0.538	0.484

## 253	0.527	0.541	0.364
## 254	0.115	0.674	0.238
## 255	0.182	0.454	0.183
## 256	0.712	0.359	0.064
## 257	0.539	0.526	0.302
## 258	0.657	0.133	0.056
## 259	0.404	0.356	0.032
## 260	0.602	0.266	0.086
## 261	0.330	0.516	0.103
## 262	0.691	0.459	0.282
## 263	0.080	0.467	0.146
## 264	0.337	0.499	0.212
## 265	0.433	0.406	0.138
## 266	0.441	0.626	0.230
## 267	0.690	0.271	0.040
## 268	0.790	0.419	0.149
## 269	0.000	0.355	0.238
## 270	0.343	0.514	0.091
## 271	0.579	0.580	0.153
## 272	0.672	0.585	0.307
## 273	0.536	0.304	0.148
## 274	0.152	0.367	0.139
## 275	0.365	0.519	0.051
## 276	0.457	0.696	0.256
## 277	0.254	0.312	0.175
## 278	0.553	0.312	0.092
## 279	0.173	0.531	0.206
## 280	0.454	0.504	0.352
## 281	0.295	0.503	0.221
## 282	0.292	0.129	0.134
## 283	0.391	0.452	0.220
## 284	0.643	0.375	0.038
## 285	0.666	0.260	0.077
## 286	0.429	0.580	0.598
## 287	0.053	0.189	0.181
## 288	0.204	0.312	0.197
## 289	0.485	0.539	0.172
## 290	0.221	0.390	0.175
## 291	0.237	0.450	0.259
## 292	0.240	0.440	0.163
## 293	0.312	0.016	0.134
## 294	0.609	0.163	0.187
## 295	0.253	0.434	0.158
## 296	0.211	0.394	0.185
## 297	0.079	0.423	0.116
## 298	0.269	0.000	0.079
## 299	0.402	0.221	0.155
## 300	0.248	0.406	0.132
## 301	0.255	0.085	0.191
## 302	0.417	0.557	0.042

## 303	0.306	0.531	0.210
## 304	0.289	0.025	0.392
## 305	0.267	0.419	0.206
## 306	0.539	0.088	0.376
## 307	0.400	0.636	0.200
## 308	0.343	0.244	0.083
## 309	0.381	0.481	0.270
## 310	0.177	0.112	0.224
## 311	0.010	0.305	0.218
## 312	0.145	0.065	0.149
##	Perceptions.of.corruption		
## 1	0.393		
## 2	0.41		
## 3	0.341		
## 4	0.118		
## 5	0.298		
## 6	0.343		
## 7	0.373		
## 8	0.38		
## 9	0.308		
## 10	0.226		
## 11	0.29		
## 12	0.093		
## 13	0.082		
## 14	0.316		
## 15	0.278		
## 16	0.31		
## 17	0.265		
## 18	0.21		
## 19	0.128		
## 20	0.036		
## 21	0.182		
## 22	0.151		
## 23	0.073		
## 24	0.183		
## 25	0.097		
## 26	0.056		
## 27	0.078		
## 28	0.132		
## 29	0.167		
## 30	0.079		
## 31	0.054		
## 32	0.086		
## 33	0.15		
## 34	0.453		
## 35	0.074		
## 36	0.03		
## 37	0.11		
## 38	0.014		
## 39	0.016		

## 40	0.05
## 41	0.24
## 42	0.042
## 43	0.034
## 44	0.057
## 45	0.127
## 46	0.006
## 47	0.05
## 48	0.005
## 49	0.041
## 50	0.087
## 51	0.097
## 52	0.028
## 53	0.064
## 54	0.056
## 55	0.161
## 56	0.028
## 57	0.06
## 58	0.14
## 59	0.078
## 60	0.096
## 61	0.064
## 62	0.02
## 63	0.08
## 64	0.162
## 65	0.027
## 66	0.025
## 67	0.098
## 68	0.031
## 69	0.107
## 70	0.039
## 71	0
## 72	0.152
## 73	0.08
## 74	0.144
## 75	0.022
## 76	0.287
## 77	0.101
## 78	0.006
## 79	0.106
## 80	0.024
## 81	0.142
## 82	0.034
## 83	0.038
## 84	0.034
## 85	0.041
## 86	0.023
## 87	0.028
## 88	0.114
## 89	0.076

## 90	0.182
## 91	0.027
## 92	0.028
## 93	0.1
## 94	0.073
## 95	0.167
## 96	0.037
## 97	0.004
## 98	0.04
## 99	0.09
## 100	0.089
## 101	0.13
## 102	0.082
## 103	0.093
## 104	0.055
## 105	0.164
## 106	0.055
## 107	0.027
## 108	0.047
## 109	0.062
## 110	0.066
## 111	0.072
## 112	0.27
## 113	0.056
## 114	0.102
## 115	0.113
## 116	0.064
## 117	0.125
## 118	0.086
## 119	0.164
## 120	0.167
## 121	0.053
## 122	0.088
## 123	0.138
## 124	0.055
## 125	0.143
## 126	0.089
## 127	0.053
## 128	0.052
## 129	0.045
## 130	0.047
## 131	0.172
## 132	0.078
## 133	0.01
## 134	0.1
## 135	0.135
## 136	0.06
## 137	0.067
## 138	0.087
## 139	0.085

## 140	0.085
## 141	0.033
## 142	0.078
## 143	0.041
## 144	0.093
## 145	0.18
## 146	0.089
## 147	0.11
## 148	0.1
## 149	0.141
## 150	0.089
## 151	0.077
## 152	0.411
## 153	0.147
## 154	0.025
## 155	0.035
## 156	0.091
## 157	0.393
## 158	0.340
## 159	0.408
## 160	0.138
## 161	0.357
## 162	0.295
## 163	0.291
## 164	0.389
## 165	0.383
## 166	0.302
## 167	0.082
## 168	0.224
## 169	0.101
## 170	0.306
## 171	0.280
## 172	0.240
## 173	0.321
## 174	0.133
## 175	0.272
## 176	N/A
## 177	0.034
## 178	0.142
## 179	0.176
## 180	0.095
## 181	0.061
## 182	0.078
## 183	0.063
## 184	0.088
## 185	0.054
## 186	0.071
## 187	0.155
## 188	0.171
## 189	0.127

## 190	0.457
## 191	0.059
## 192	0.074
## 193	0.039
## 194	0.019
## 195	0.014
## 196	0.082
## 197	0.128
## 198	0.064
## 199	0.123
## 200	0.259
## 201	0.106
## 202	0.029
## 203	0.028
## 204	0.120
## 205	0.089
## 206	0.006
## 207	0.051
## 208	0.001
## 209	0.066
## 210	0.150
## 211	0.050
## 212	0.031
## 213	0.051
## 214	0.154
## 215	0.025
## 216	0.121
## 217	0.035
## 218	0.054
## 219	0.174
## 220	0.074
## 221	0.034
## 222	0.023
## 223	0.000
## 224	0.037
## 225	0.022
## 226	0.148
## 227	0.105
## 228	0.074
## 229	0.154
## 230	0.109
## 231	0.113
## 232	0.291
## 233	0.017
## 234	0.043
## 235	0.044
## 236	0.136
## 237	0.081
## 238	0.039
## 239	0.106

## 240	0.135
## 241	0.074
## 242	0.103
## 243	0.176
## 244	0.034
## 245	0.052
## 246	0.134
## 247	0.032
## 248	0.035
## 249	0.000
## 250	0.032
## 251	0.079
## 252	0.018
## 253	0.171
## 254	0.282
## 255	0.043
## 256	0.009
## 257	0.078
## 258	0.052
## 259	0.052
## 260	0.076
## 261	0.056
## 262	0.129
## 263	0.103
## 264	0.029
## 265	0.082
## 266	0.174
## 267	0.063
## 268	0.032
## 269	0.053
## 270	0.077
## 271	0.144
## 272	0.050
## 273	0.095
## 274	0.056
## 275	0.064
## 276	0.065
## 277	0.128
## 278	0.107
## 279	0.158
## 280	0.055
## 281	0.082
## 282	0.093
## 283	0.146
## 284	0.215
## 285	0.028
## 286	0.178
## 287	0.060
## 288	0.052
## 289	0.093

```
## 290      0.099
## 291      0.061
## 292      0.067
## 293      0.082
## 294      0.011
## 295      0.101
## 296      0.094
## 297      0.112
## 298      0.061
## 299      0.049
## 300      0.099
## 301      0.036
## 302      0.092
## 303      0.080
## 304      0.104
## 305      0.030
## 306      0.144
## 307      0.444
## 308      0.064
## 309      0.097
## 310      0.106
## 311      0.038
## 312      0.076
```

```
cbind(happy, happy1)
```

```
##      Overall.rank      Country.or.region Score GDP.per.capita
Social.support
## 1          1      Finland 7.769      1.340
1.587
## 2          2      Denmark 7.600      1.383
1.573
## 3          3      Norway 7.554      1.488
1.582
## 4          4      Iceland 7.494      1.380
1.624
## 5          5      Netherlands 7.488      1.396
1.522
## 6          6      Switzerland 7.480      1.452
1.526
## 7          7      Sweden 7.343      1.387
1.487
## 8          8      New Zealand 7.307      1.303
1.557
## 9          9      Canada 7.278      1.365
1.505
## 10         10      Austria 7.246      1.376
1.475
## 11         11      Australia 7.228      1.372
1.548
```

## 12	12	Costa Rica 7.167	1.034
1.441			
## 13	13	Israel 7.139	1.276
1.455			
## 14	14	Luxembourg 7.090	1.609
1.479			
## 15	15	United Kingdom 7.054	1.333
1.538			
## 16	16	Ireland 7.021	1.499
1.553			
## 17	17	Germany 6.985	1.373
1.454			
## 18	18	Belgium 6.923	1.356
1.504			
## 19	19	United States 6.892	1.433
1.457			
## 20	20	Czech Republic 6.852	1.269
1.487			
## 21	21	United Arab Emirates 6.825	1.503
1.310			
## 22	22	Malta 6.726	1.300
1.520			
## 23	23	Mexico 6.595	1.070
1.323			
## 24	24	France 6.592	1.324
1.472			
## 25	25	Taiwan 6.446	1.368
1.430			
## 26	26	Chile 6.444	1.159
1.369			
## 27	27	Guatemala 6.436	0.800
1.269			
## 28	28	Saudi Arabia 6.375	1.403
1.357			
## 29	29	Qatar 6.374	1.684
1.313			
## 30	30	Spain 6.354	1.286
1.484			
## 31	31	Panama 6.321	1.149
1.442			
## 32	32	Brazil 6.300	1.004
1.439			
## 33	33	Uruguay 6.293	1.124
1.465			
## 34	34	Singapore 6.262	1.572
1.463			
## 35	35	El Salvador 6.253	0.794
1.242			
## 36	36	Italy 6.223	1.294
1.488			

## 37	37	Bahrain 6.199	1.362
1.368			
## 38	38	Slovakia 6.198	1.246
1.504			
## 39	39	Trinidad & Tobago 6.192	1.231
1.477			
## 40	40	Poland 6.182	1.206
1.438			
## 41	41	Uzbekistan 6.174	0.745
1.529			
## 42	42	Lithuania 6.149	1.238
1.515			
## 43	43	Colombia 6.125	0.985
1.410			
## 44	44	Slovenia 6.118	1.258
1.523			
## 45	45	Nicaragua 6.105	0.694
1.325			
## 46	46	Kosovo 6.100	0.882
1.232			
## 47	47	Argentina 6.086	1.092
1.432			
## 48	48	Romania 6.070	1.162
1.232			
## 49	49	Cyprus 6.046	1.263
1.223			
## 50	50	Ecuador 6.028	0.912
1.312			
## 51	51	Kuwait 6.021	1.500
1.319			
## 52	52	Thailand 6.008	1.050
1.409			
## 53	53	Latvia 5.940	1.187
1.465			
## 54	54	South Korea 5.895	1.301
1.219			
## 55	55	Estonia 5.893	1.237
1.528			
## 56	56	Jamaica 5.890	0.831
1.478			
## 57	57	Mauritius 5.888	1.120
1.402			
## 58	58	Japan 5.886	1.327
1.419			
## 59	59	Honduras 5.860	0.642
1.236			
## 60	60	Kazakhstan 5.809	1.173
1.508			
## 61	61	Bolivia 5.779	0.776
1.209			

## 62	62	Hungary 5.758	1.201
1.410			
## 63	63	Paraguay 5.743	0.855
1.475			
## 64	64	Northern Cyprus 5.718	1.263
1.252			
## 65	65	Peru 5.697	0.960
1.274			
## 66	66	Portugal 5.693	1.221
1.431			
## 67	67	Pakistan 5.653	0.677
0.886			
## 68	68	Russia 5.648	1.183
1.452			
## 69	69	Philippines 5.631	0.807
1.293			
## 70	70	Serbia 5.603	1.004
1.383			
## 71	71	Moldova 5.529	0.685
1.328			
## 72	72	Libya 5.525	1.044
1.303			
## 73	73	Montenegro 5.523	1.051
1.361			
## 74	74	Tajikistan 5.467	0.493
1.098			
## 75	75	Croatia 5.432	1.155
1.266			
## 76	76	Hong Kong 5.430	1.438
1.277			
## 77	77	Dominican Republic 5.425	1.015
1.401			
## 78	78	Bosnia and Herzegovina 5.386	0.945
1.212			
## 79	79	Turkey 5.373	1.183
1.360			
## 80	80	Malaysia 5.339	1.221
1.171			
## 81	81	Belarus 5.323	1.067
1.465			
## 82	82	Greece 5.287	1.181
1.156			
## 83	83	Mongolia 5.285	0.948
1.531			
## 84	84	North Macedonia 5.274	0.983
1.294			
## 85	85	Nigeria 5.265	0.696
1.111			
## 86	86	Kyrgyzstan 5.261	0.551
1.438			

## 87	87	Turkmenistan 5.247	1.052
1.538			
## 88	88	Algeria 5.211	1.002
1.160			
## 89	89	Morocco 5.208	0.801
0.782			
## 90	90	Azerbaijan 5.208	1.043
1.147			
## 91	91	Lebanon 5.197	0.987
1.224			
## 92	92	Indonesia 5.192	0.931
1.203			
## 93	93	China 5.191	1.029
1.125			
## 94	94	Vietnam 5.175	0.741
1.346			
## 95	95	Bhutan 5.082	0.813
1.321			
## 96	96	Cameroon 5.044	0.549
0.910			
## 97	97	Bulgaria 5.011	1.092
1.513			
## 98	98	Ghana 4.996	0.611
0.868			
## 99	99	Ivory Coast 4.944	0.569
0.808			
## 100	100	Nepal 4.913	0.446
1.226			
## 101	101	Jordan 4.906	0.837
1.225			
## 102	102	Benin 4.883	0.393
0.437			
## 103	103	Congo (Brazzaville) 4.812	0.673
0.799			
## 104	104	Gabon 4.799	1.057
1.183			
## 105	105	Laos 4.796	0.764
1.030			
## 106	106	South Africa 4.722	0.960
1.351			
## 107	107	Albania 4.719	0.947
0.848			
## 108	108	Venezuela 4.707	0.960
1.427			
## 109	109	Cambodia 4.700	0.574
1.122			
## 110	110	Palestinian Territories 4.696	0.657
1.247			
## 111	111	Senegal 4.681	0.450
1.134			

## 112	112	Somalia 4.668	0.000
0.698			
## 113	113	Namibia 4.639	0.879
1.313			
## 114	114	Niger 4.628	0.138
0.774			
## 115	115	Burkina Faso 4.587	0.331
1.056			
## 116	116	Armenia 4.559	0.850
1.055			
## 117	117	Iran 4.548	1.100
0.842			
## 118	118	Guinea 4.534	0.380
0.829			
## 119	119	Georgia 4.519	0.886
0.666			
## 120	120	Gambia 4.516	0.308
0.939			
## 121	121	Kenya 4.509	0.512
0.983			
## 122	122	Mauritania 4.490	0.570
1.167			
## 123	123	Mozambique 4.466	0.204
0.986			
## 124	124	Tunisia 4.461	0.921
1.000			
## 125	125	Bangladesh 4.456	0.562
0.928			
## 126	126	Iraq 4.437	1.043
0.980			
## 127	127	Congo (Kinshasa) 4.418	0.094
1.125			
## 128	128	Mali 4.390	0.385
1.105			
## 129	129	Sierra Leone 4.374	0.268
0.841			
## 130	130	Sri Lanka 4.366	0.949
1.265			
## 131	131	Myanmar 4.360	0.710
1.181			
## 132	132	Chad 4.350	0.350
0.766			
## 133	133	Ukraine 4.332	0.820
1.390			
## 134	134	Ethiopia 4.286	0.336
1.033			
## 135	135	Swaziland 4.212	0.811
1.149			
## 136	136	Uganda 4.189	0.332
1.069			

## 137	137	Egypt	4.166	0.913
1.039				
## 138	138	Zambia	4.107	0.578
1.058				
## 139	139	Togo	4.085	0.275
0.572				
## 140	140	India	4.015	0.755
0.765				
## 141	141	Liberia	3.975	0.073
0.922				
## 142	142	Comoros	3.973	0.274
0.757				
## 143	143	Madagascar	3.933	0.274
0.916				
## 144	144	Lesotho	3.802	0.489
1.169				
## 145	145	Burundi	3.775	0.046
0.447				
## 146	146	Zimbabwe	3.663	0.366
1.114				
## 147	147	Haiti	3.597	0.323
0.688				
## 148	148	Botswana	3.488	1.041
1.145				
## 149	149	Syria	3.462	0.619
0.378				
## 150	150	Malawi	3.410	0.191
0.560				
## 151	151	Yemen	3.380	0.287
1.163				
## 152	152	Rwanda	3.334	0.359
0.711				
## 153	153	Tanzania	3.231	0.476
0.885				
## 154	154	Afghanistan	3.203	0.350
0.517				
## 155	155	Central African Republic	3.083	0.026
0.000				
## 156	156	South Sudan	2.853	0.306
0.575				
##	Healthy.life.expectancy Freedom.to.make.life.choices Generosity			
## 1	0.986	0.596	0.153	
## 2	0.996	0.592	0.252	
## 3	1.028	0.603	0.271	
## 4	1.026	0.591	0.354	
## 5	0.999	0.557	0.322	
## 6	1.052	0.572	0.263	
## 7	1.009	0.574	0.267	
## 8	1.026	0.585	0.330	
## 9	1.039	0.584	0.285	

## 10	1.016	0.532	0.244
## 11	1.036	0.557	0.332
## 12	0.963	0.558	0.144
## 13	1.029	0.371	0.261
## 14	1.012	0.526	0.194
## 15	0.996	0.450	0.348
## 16	0.999	0.516	0.298
## 17	0.987	0.495	0.261
## 18	0.986	0.473	0.160
## 19	0.874	0.454	0.280
## 20	0.920	0.457	0.046
## 21	0.825	0.598	0.262
## 22	0.999	0.564	0.375
## 23	0.861	0.433	0.074
## 24	1.045	0.436	0.111
## 25	0.914	0.351	0.242
## 26	0.920	0.357	0.187
## 27	0.746	0.535	0.175
## 28	0.795	0.439	0.080
## 29	0.871	0.555	0.220
## 30	1.062	0.362	0.153
## 31	0.910	0.516	0.109
## 32	0.802	0.390	0.099
## 33	0.891	0.523	0.127
## 34	1.141	0.556	0.271
## 35	0.789	0.430	0.093
## 36	1.039	0.231	0.158
## 37	0.871	0.536	0.255
## 38	0.881	0.334	0.121
## 39	0.713	0.489	0.185
## 40	0.884	0.483	0.117
## 41	0.756	0.631	0.322
## 42	0.818	0.291	0.043
## 43	0.841	0.470	0.099
## 44	0.953	0.564	0.144
## 45	0.835	0.435	0.200
## 46	0.758	0.489	0.262
## 47	0.881	0.471	0.066
## 48	0.825	0.462	0.083
## 49	1.042	0.406	0.190
## 50	0.868	0.498	0.126
## 51	0.808	0.493	0.142
## 52	0.828	0.557	0.359
## 53	0.812	0.264	0.075
## 54	1.036	0.159	0.175
## 55	0.874	0.495	0.103
## 56	0.831	0.490	0.107
## 57	0.798	0.498	0.215
## 58	1.088	0.445	0.069
## 59	0.828	0.507	0.246

## 60	0.729	0.410	0.146
## 61	0.706	0.511	0.137
## 62	0.828	0.199	0.081
## 63	0.777	0.514	0.184
## 64	1.042	0.417	0.191
## 65	0.854	0.455	0.083
## 66	0.999	0.508	0.047
## 67	0.535	0.313	0.220
## 68	0.726	0.334	0.082
## 69	0.657	0.558	0.117
## 70	0.854	0.282	0.137
## 71	0.739	0.245	0.181
## 72	0.673	0.416	0.133
## 73	0.871	0.197	0.142
## 74	0.718	0.389	0.230
## 75	0.914	0.296	0.119
## 76	1.122	0.440	0.258
## 77	0.779	0.497	0.113
## 78	0.845	0.212	0.263
## 79	0.808	0.195	0.083
## 80	0.828	0.508	0.260
## 81	0.789	0.235	0.094
## 82	0.999	0.067	0.000
## 83	0.667	0.317	0.235
## 84	0.838	0.345	0.185
## 85	0.245	0.426	0.215
## 86	0.723	0.508	0.300
## 87	0.657	0.394	0.244
## 88	0.785	0.086	0.073
## 89	0.782	0.418	0.036
## 90	0.769	0.351	0.035
## 91	0.815	0.216	0.166
## 92	0.660	0.491	0.498
## 93	0.893	0.521	0.058
## 94	0.851	0.543	0.147
## 95	0.604	0.457	0.370
## 96	0.331	0.381	0.187
## 97	0.815	0.311	0.081
## 98	0.486	0.381	0.245
## 99	0.232	0.352	0.154
## 100	0.677	0.439	0.285
## 101	0.815	0.383	0.110
## 102	0.397	0.349	0.175
## 103	0.508	0.372	0.105
## 104	0.571	0.295	0.043
## 105	0.551	0.547	0.266
## 106	0.469	0.389	0.130
## 107	0.874	0.383	0.178
## 108	0.805	0.154	0.064
## 109	0.637	0.609	0.232

## 110	0.672		0.225	0.103
## 111	0.571		0.292	0.153
## 112	0.268		0.559	0.243
## 113	0.477		0.401	0.070
## 114	0.366		0.318	0.188
## 115	0.380		0.255	0.177
## 116	0.815		0.283	0.095
## 117	0.785		0.305	0.270
## 118	0.375		0.332	0.207
## 119	0.752		0.346	0.043
## 120	0.428		0.382	0.269
## 121	0.581		0.431	0.372
## 122	0.489		0.066	0.106
## 123	0.390		0.494	0.197
## 124	0.815		0.167	0.059
## 125	0.723		0.527	0.166
## 126	0.574		0.241	0.148
## 127	0.357		0.269	0.212
## 128	0.308		0.327	0.153
## 129	0.242		0.309	0.252
## 130	0.831		0.470	0.244
## 131	0.555		0.525	0.566
## 132	0.192		0.174	0.198
## 133	0.739		0.178	0.187
## 134	0.532		0.344	0.209
## 135	0.000		0.313	0.074
## 136	0.443		0.356	0.252
## 137	0.644		0.241	0.076
## 138	0.426		0.431	0.247
## 139	0.410		0.293	0.177
## 140	0.588		0.498	0.200
## 141	0.443		0.370	0.233
## 142	0.505		0.142	0.275
## 143	0.555		0.148	0.169
## 144	0.168		0.359	0.107
## 145	0.380		0.220	0.176
## 146	0.433		0.361	0.151
## 147	0.449		0.026	0.419
## 148	0.538		0.455	0.025
## 149	0.440		0.013	0.331
## 150	0.495		0.443	0.218
## 151	0.463		0.143	0.108
## 152	0.614		0.555	0.217
## 153	0.499		0.417	0.276
## 154	0.361		0.000	0.158
## 155	0.105		0.225	0.235
## 156	0.295		0.010	0.202
##	Perceptions.of.corruption	Overall.rank	Country.or.region	Score
## 1	0.393	1	Finland	7.632
## 2	0.410	2	Norway	7.594

## 3	0.341	3	Denmark	7.555
## 4	0.118	4	Iceland	7.495
## 5	0.298	5	Switzerland	7.487
## 6	0.343	6	Netherlands	7.441
## 7	0.373	7	Canada	7.328
## 8	0.380	8	New Zealand	7.324
## 9	0.308	9	Sweden	7.314
## 10	0.226	10	Australia	7.272
## 11	0.290	11	United Kingdom	7.190
## 12	0.093	12	Austria	7.139
## 13	0.082	13	Costa Rica	7.072
## 14	0.316	14	Ireland	6.977
## 15	0.278	15	Germany	6.965
## 16	0.310	16	Belgium	6.927
## 17	0.265	17	Luxembourg	6.910
## 18	0.210	18	United States	6.886
## 19	0.128	19	Israel	6.814
## 20	0.036	20	United Arab Emirates	6.774
## 21	0.182	21	Czech Republic	6.711
## 22	0.151	22	Malta	6.627
## 23	0.073	23	France	6.489
## 24	0.183	24	Mexico	6.488
## 25	0.097	25	Chile	6.476
## 26	0.056	26	Taiwan	6.441
## 27	0.078	27	Panama	6.430
## 28	0.132	28	Brazil	6.419
## 29	0.167	29	Argentina	6.388
## 30	0.079	30	Guatemala	6.382
## 31	0.054	31	Uruguay	6.379
## 32	0.086	32	Qatar	6.374
## 33	0.150	33	Saudi Arabia	6.371
## 34	0.453	34	Singapore	6.343
## 35	0.074	35	Malaysia	6.322
## 36	0.030	36	Spain	6.310
## 37	0.110	37	Colombia	6.260
## 38	0.014	38	Trinidad & Tobago	6.192
## 39	0.016	39	Slovakia	6.173
## 40	0.050	40	El Salvador	6.167
## 41	0.240	41	Nicaragua	6.141
## 42	0.042	42	Poland	6.123
## 43	0.034	43	Bahrain	6.105
## 44	0.057	44	Uzbekistan	6.096
## 45	0.127	45	Kuwait	6.083
## 46	0.006	46	Thailand	6.072
## 47	0.050	47	Italy	6.000
## 48	0.005	48	Ecuador	5.973
## 49	0.041	49	Belize	5.956
## 50	0.087	50	Lithuania	5.952
## 51	0.097	51	Slovenia	5.948
## 52	0.028	52	Romania	5.945

## 53	0.064	53	Latvia	5.933
## 54	0.056	54	Japan	5.915
## 55	0.161	55	Mauritius	5.891
## 56	0.028	56	Jamaica	5.890
## 57	0.060	57	South Korea	5.875
## 58	0.140	58	Northern Cyprus	5.835
## 59	0.078	59	Russia	5.810
## 60	0.096	60	Kazakhstan	5.790
## 61	0.064	61	Cyprus	5.762
## 62	0.020	62	Bolivia	5.752
## 63	0.080	63	Estonia	5.739
## 64	0.162	64	Paraguay	5.681
## 65	0.027	65	Peru	5.663
## 66	0.025	66	Kosovo	5.662
## 67	0.098	67	Moldova	5.640
## 68	0.031	68	Turkmenistan	5.636
## 69	0.107	69	Hungary	5.620
## 70	0.039	70	Libya	5.566
## 71	0.000	71	Philippines	5.524
## 72	0.152	72	Honduras	5.504
## 73	0.080	73	Belarus	5.483
## 74	0.144	74	Turkey	5.483
## 75	0.022	75	Pakistan	5.472
## 76	0.287	76	Hong Kong	5.430
## 77	0.101	77	Portugal	5.410
## 78	0.006	78	Serbia	5.398
## 79	0.106	79	Greece	5.358
## 80	0.024	80	Lebanon	5.358
## 81	0.142	81	Montenegro	5.347
## 82	0.034	82	Croatia	5.321
## 83	0.038	83	Dominican Republic	5.302
## 84	0.034	84	Algeria	5.295
## 85	0.041	85	Morocco	5.254
## 86	0.023	86	China	5.246
## 87	0.028	87	Azerbaijan	5.201
## 88	0.114	88	Tajikistan	5.199
## 89	0.076	89	Macedonia	5.185
## 90	0.182	90	Jordan	5.161
## 91	0.027	91	Nigeria	5.155
## 92	0.028	92	Kyrgyzstan	5.131
## 93	0.100	93	Bosnia and Herzegovina	5.129
## 94	0.073	94	Mongolia	5.125
## 95	0.167	95	Vietnam	5.103
## 96	0.037	96	Indonesia	5.093
## 97	0.004	97	Bhutan	5.082
## 98	0.040	98	Somalia	4.982
## 99	0.090	99	Cameroon	4.975
## 100	0.089	100	Bulgaria	4.933
## 101	0.130	101	Nepal	4.880
## 102	0.082	102	Venezuela	4.806

## 103	0.093	103	Gabon	4.758
## 104	0.055	104	Palestinian Territories	4.743
## 105	0.164	105	South Africa	4.724
## 106	0.055	106	Iran	4.707
## 107	0.027	107	Ivory Coast	4.671
## 108	0.047	108	Ghana	4.657
## 109	0.062	109	Senegal	4.631
## 110	0.066	110	Laos	4.623
## 111	0.072	111	Tunisia	4.592
## 112	0.270	112	Albania	4.586
## 113	0.056	113	Sierra Leone	4.571
## 114	0.102	114	Congo (Brazzaville)	4.559
## 115	0.113	115	Bangladesh	4.500
## 116	0.064	116	Sri Lanka	4.471
## 117	0.125	117	Iraq	4.456
## 118	0.086	118	Mali	4.447
## 119	0.164	119	Namibia	4.441
## 120	0.167	120	Cambodia	4.433
## 121	0.053	121	Burkina Faso	4.424
## 122	0.088	122	Egypt	4.419
## 123	0.138	123	Mozambique	4.417
## 124	0.055	124	Kenya	4.410
## 125	0.143	125	Zambia	4.377
## 126	0.089	126	Mauritania	4.356
## 127	0.053	127	Ethiopia	4.350
## 128	0.052	128	Georgia	4.340
## 129	0.045	129	Armenia	4.321
## 130	0.047	130	Myanmar	4.308
## 131	0.172	131	Chad	4.301
## 132	0.078	132	Congo (Kinshasa)	4.245
## 133	0.010	133	India	4.190
## 134	0.100	134	Niger	4.166
## 135	0.135	135	Uganda	4.161
## 136	0.060	136	Benin	4.141
## 137	0.067	137	Sudan	4.139
## 138	0.087	138	Ukraine	4.103
## 139	0.085	139	Togo	3.999
## 140	0.085	140	Guinea	3.964
## 141	0.033	141	Lesotho	3.808
## 142	0.078	142	Angola	3.795
## 143	0.041	143	Madagascar	3.774
## 144	0.093	144	Zimbabwe	3.692
## 145	0.180	145	Afghanistan	3.632
## 146	0.089	146	Botswana	3.590
## 147	0.110	147	Malawi	3.587
## 148	0.100	148	Haiti	3.582
## 149	0.141	149	Liberia	3.495
## 150	0.089	150	Syria	3.462
## 151	0.077	151	Rwanda	3.408
## 152	0.411	152	Yemen	3.355

## 153	0.147	153	Tanzania 3.303
## 154	0.025	154	South Sudan 3.254
## 155	0.035	155	Central African Republic 3.083
## 156	0.091	156	Burundi 2.905

##	GDP.per.capita	Social.support	Healthy.life.expectancy
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## 1	1.305	1.592	0.874
## 2	1.456	1.582	0.861
## 3	1.351	1.590	0.868
## 4	1.343	1.644	0.914
## 5	1.420	1.549	0.927
## 6	1.361	1.488	0.878
## 7	1.330	1.532	0.896
## 8	1.268	1.601	0.876
## 9	1.355	1.501	0.913
## 10	1.340	1.573	0.910
## 11	1.244	1.433	0.888
## 12	1.341	1.504	0.891
## 13	1.010	1.459	0.817
## 14	1.448	1.583	0.876
## 15	1.340	1.474	0.861
## 16	1.324	1.483	0.894
## 17	1.576	1.520	0.896
## 18	1.398	1.471	0.819
## 19	1.301	1.559	0.883
## 20	2.096	0.776	0.670
## 21	1.233	1.489	0.854
## 22	1.270	1.525	0.884
## 23	1.293	1.466	0.908
## 24	1.038	1.252	0.761
## 25	1.131	1.331	0.808
## 26	1.365	1.436	0.857
## 27	1.112	1.438	0.759
## 28	0.986	1.474	0.675
## 29	1.073	1.468	0.744
## 30	0.781	1.268	0.608
## 31	1.093	1.459	0.771
## 32	1.649	1.303	0.748
## 33	1.379	1.331	0.633
## 34	1.529	1.451	1.008
## 35	1.161	1.258	0.669
## 36	1.251	1.538	0.965
## 37	0.960	1.439	0.635
## 38	1.223	1.492	0.564
## 39	1.210	1.537	0.776
## 40	0.806	1.231	0.639
## 41	0.668	1.319	0.700
## 42	1.176	1.448	0.781
## 43	1.338	1.366	0.698
## 44	0.719	1.584	0.605
## 45	1.474	1.301	0.675

## 46	1.016	1.417	0.707
## 47	1.264	1.501	0.946
## 48	0.889	1.330	0.736
## 49	0.807	1.101	0.474
## 50	1.197	1.527	0.716
## 51	1.219	1.506	0.856
## 52	1.116	1.219	0.726
## 53	1.148	1.454	0.671
## 54	1.294	1.462	0.988
## 55	1.090	1.387	0.684
## 56	0.819	1.493	0.693
## 57	1.266	1.204	0.955
## 58	1.229	1.211	0.909
## 59	1.151	1.479	0.599
## 60	1.143	1.516	0.631
## 61	1.229	1.191	0.909
## 62	0.751	1.223	0.508
## 63	1.200	1.532	0.737
## 64	0.835	1.522	0.615
## 65	0.934	1.249	0.674
## 66	0.855	1.230	0.578
## 67	0.657	1.301	0.620
## 68	1.016	1.533	0.517
## 69	1.171	1.401	0.732
## 70	0.985	1.350	0.553
## 71	0.775	1.312	0.513
## 72	0.620	1.205	0.622
## 73	1.039	1.498	0.700
## 74	1.148	1.380	0.686
## 75	0.652	0.810	0.424
## 76	1.405	1.290	1.030
## 77	1.188	1.429	0.884
## 78	0.975	1.369	0.685
## 79	1.154	1.202	0.879
## 80	0.965	1.179	0.785
## 81	1.017	1.279	0.729
## 82	1.115	1.161	0.737
## 83	0.982	1.441	0.614
## 84	0.979	1.154	0.687
## 85	0.779	0.797	0.669
## 86	0.989	1.142	0.799
## 87	1.024	1.161	0.603
## 88	0.474	1.166	0.598
## 89	0.959	1.239	0.691
## 90	0.822	1.265	0.645
## 91	0.689	1.172	0.048
## 92	0.530	1.416	0.594
## 93	0.915	1.078	0.758
## 94	0.914	1.517	0.575
## 95	0.715	1.365	0.702

## 96	0.899	1.215	0.522
## 97	0.796	1.335	0.527
## 98	0.000	0.712	0.115
## 99	0.535	0.891	0.182
## 100	1.054	1.515	0.712
## 101	0.425	1.228	0.539
## 102	0.996	1.469	0.657
## 103	1.036	1.164	0.404
## 104	0.642	1.217	0.602
## 105	0.940	1.410	0.330
## 106	1.059	0.771	0.691
## 107	0.541	0.872	0.080
## 108	0.592	0.896	0.337
## 109	0.429	1.117	0.433
## 110	0.720	1.034	0.441
## 111	0.900	0.906	0.690
## 112	0.916	0.817	0.790
## 113	0.256	0.813	0.000
## 114	0.682	0.811	0.343
## 115	0.532	0.850	0.579
## 116	0.918	1.314	0.672
## 117	1.010	0.971	0.536
## 118	0.370	1.233	0.152
## 119	0.874	1.281	0.365
## 120	0.549	1.088	0.457
## 121	0.314	1.097	0.254
## 122	0.885	1.025	0.553
## 123	0.198	0.902	0.173
## 124	0.493	1.048	0.454
## 125	0.562	1.047	0.295
## 126	0.557	1.245	0.292
## 127	0.308	0.950	0.391
## 128	0.853	0.592	0.643
## 129	0.816	0.990	0.666
## 130	0.682	1.174	0.429
## 131	0.358	0.907	0.053
## 132	0.069	1.136	0.204
## 133	0.721	0.747	0.485
## 134	0.131	0.867	0.221
## 135	0.322	1.090	0.237
## 136	0.378	0.372	0.240
## 137	0.605	1.240	0.312
## 138	0.793	1.413	0.609
## 139	0.259	0.474	0.253
## 140	0.344	0.792	0.211
## 141	0.472	1.215	0.079
## 142	0.730	1.125	0.269
## 143	0.262	0.908	0.402
## 144	0.357	1.094	0.248
## 145	0.332	0.537	0.255

## 146	1.017	1.174	0.417
## 147	0.186	0.541	0.306
## 148	0.315	0.714	0.289
## 149	0.076	0.858	0.267
## 150	0.689	0.382	0.539
## 151	0.332	0.896	0.400
## 152	0.442	1.073	0.343
## 153	0.455	0.991	0.381
## 154	0.337	0.608	0.177
## 155	0.024	0.000	0.010
## 156	0.091	0.627	0.145
##	Freedom.to.make.life.choices	Generosity	Perceptions.of.corruption
## 1		0.681	0.202
## 2		0.686	0.286
## 3		0.683	0.284
## 4		0.677	0.353
## 5		0.660	0.256
## 6		0.638	0.333
## 7		0.653	0.321
## 8		0.669	0.365
## 9		0.659	0.285
## 10		0.647	0.361
## 11		0.464	0.262
## 12		0.617	0.242
## 13		0.632	0.143
## 14		0.614	0.307
## 15		0.586	0.273
## 16		0.583	0.188
## 17		0.632	0.196
## 18		0.547	0.291
## 19		0.533	0.354
## 20		0.284	0.186
## 21		0.543	0.064
## 22		0.645	0.376
## 23		0.520	0.098
## 24		0.479	0.069
## 25		0.431	0.197
## 26		0.418	0.151
## 27		0.597	0.125
## 28		0.493	0.110
## 29		0.570	0.062
## 30		0.604	0.179
## 31		0.625	0.130
## 32		0.654	0.256
## 33		0.509	0.098
## 34		0.631	0.261
## 35		0.356	0.311
## 36		0.449	0.142
## 37		0.531	0.099
## 38		0.575	0.171

## 39	0.354	0.118	0.014
## 40	0.461	0.065	0.082
## 41	0.527	0.208	0.128
## 42	0.546	0.108	0.064
## 43	0.594	0.243	0.123
## 44	0.724	0.328	0.259
## 45	0.554	0.167	0.106
## 46	0.637	0.364	0.029
## 47	0.281	0.137	0.028
## 48	0.556	0.114	0.120
## 49	0.593	0.183	0.089
## 50	0.350	0.026	0.006
## 51	0.633	0.160	0.051
## 52	0.528	0.088	0.001
## 53	0.363	0.092	0.066
## 54	0.553	0.079	0.150
## 55	0.584	0.245	0.050
## 56	0.575	0.096	0.031
## 57	0.244	0.175	0.051
## 58	0.495	0.179	0.154
## 59	0.399	0.065	0.025
## 60	0.454	0.148	0.121
## 61	0.423	0.202	0.035
## 62	0.606	0.141	0.054
## 63	0.553	0.086	0.174
## 64	0.541	0.162	0.074
## 65	0.530	0.092	0.034
## 66	0.448	0.274	0.023
## 67	0.232	0.171	0.000
## 68	0.417	0.199	0.037
## 69	0.259	0.061	0.022
## 70	0.496	0.116	0.148
## 71	0.643	0.120	0.105
## 72	0.459	0.197	0.074
## 73	0.307	0.101	0.154
## 74	0.324	0.106	0.109
## 75	0.334	0.216	0.113
## 76	0.524	0.246	0.291
## 77	0.562	0.055	0.017
## 78	0.288	0.134	0.043
## 79	0.131	0.000	0.044
## 80	0.503	0.214	0.136
## 81	0.259	0.111	0.081
## 82	0.380	0.120	0.039
## 83	0.578	0.120	0.106
## 84	0.077	0.055	0.135
## 85	0.460	0.026	0.074
## 86	0.597	0.029	0.103
## 87	0.430	0.031	0.176
## 88	0.292	0.187	0.034

## 89	0.394	0.173	0.052
## 90	0.468	0.130	0.134
## 91	0.462	0.201	0.032
## 92	0.540	0.281	0.035
## 93	0.280	0.216	0.000
## 94	0.395	0.253	0.032
## 95	0.618	0.177	0.079
## 96	0.538	0.484	0.018
## 97	0.541	0.364	0.171
## 98	0.674	0.238	0.282
## 99	0.454	0.183	0.043
## 100	0.359	0.064	0.009
## 101	0.526	0.302	0.078
## 102	0.133	0.056	0.052
## 103	0.356	0.032	0.052
## 104	0.266	0.086	0.076
## 105	0.516	0.103	0.056
## 106	0.459	0.282	0.129
## 107	0.467	0.146	0.103
## 108	0.499	0.212	0.029
## 109	0.406	0.138	0.082
## 110	0.626	0.230	0.174
## 111	0.271	0.040	0.063
## 112	0.419	0.149	0.032
## 113	0.355	0.238	0.053
## 114	0.514	0.091	0.077
## 115	0.580	0.153	0.144
## 116	0.585	0.307	0.050
## 117	0.304	0.148	0.095
## 118	0.367	0.139	0.056
## 119	0.519	0.051	0.064
## 120	0.696	0.256	0.065
## 121	0.312	0.175	0.128
## 122	0.312	0.092	0.107
## 123	0.531	0.206	0.158
## 124	0.504	0.352	0.055
## 125	0.503	0.221	0.082
## 126	0.129	0.134	0.093
## 127	0.452	0.220	0.146
## 128	0.375	0.038	0.215
## 129	0.260	0.077	0.028
## 130	0.580	0.598	0.178
## 131	0.189	0.181	0.060
## 132	0.312	0.197	0.052
## 133	0.539	0.172	0.093
## 134	0.390	0.175	0.099
## 135	0.450	0.259	0.061
## 136	0.440	0.163	0.067
## 137	0.016	0.134	0.082
## 138	0.163	0.187	0.011

```
## 139          0.434      0.158          0.101
## 140          0.394      0.185          0.094
## 141          0.423      0.116          0.112
## 142          0.000      0.079          0.061
## 143          0.221      0.155          0.049
## 144          0.406      0.132          0.099
## 145          0.085      0.191          0.036
## 146          0.557      0.042          0.092
## 147          0.531      0.210          0.080
## 148          0.025      0.392          0.104
## 149          0.419      0.206          0.030
## 150          0.088      0.376          0.144
## 151          0.636      0.200          0.444
## 152          0.244      0.083          0.064
## 153          0.481      0.270          0.097
## 154          0.112      0.224          0.106
## 155          0.305      0.218          0.038
## 156          0.065      0.149          0.076
```

```
score_dup<-as.vector(happy$Score)
score_dup
```

```
## [1] 7.769 7.600 7.554 7.494 7.488 7.480 7.343 7.307 7.278 7.246 7.228
7.167
## [13] 7.139 7.090 7.054 7.021 6.985 6.923 6.892 6.852 6.825 6.726 6.595
6.592
## [25] 6.446 6.444 6.436 6.375 6.374 6.354 6.321 6.300 6.293 6.262 6.253
6.223
## [37] 6.199 6.198 6.192 6.182 6.174 6.149 6.125 6.118 6.105 6.100 6.086
6.070
## [49] 6.046 6.028 6.021 6.008 5.940 5.895 5.893 5.890 5.888 5.886 5.860
5.809
## [61] 5.779 5.758 5.743 5.718 5.697 5.693 5.653 5.648 5.631 5.603 5.529
5.525
## [73] 5.523 5.467 5.432 5.430 5.425 5.386 5.373 5.339 5.323 5.287 5.285
5.274
## [85] 5.265 5.261 5.247 5.211 5.208 5.208 5.197 5.192 5.191 5.175 5.082
5.044
## [97] 5.011 4.996 4.944 4.913 4.906 4.883 4.812 4.799 4.796 4.722 4.719
4.707
## [109] 4.700 4.696 4.681 4.668 4.639 4.628 4.587 4.559 4.548 4.534 4.519
4.516
## [121] 4.509 4.490 4.466 4.461 4.456 4.437 4.418 4.390 4.374 4.366 4.360
4.350
## [133] 4.332 4.286 4.212 4.189 4.166 4.107 4.085 4.015 3.975 3.973 3.933
3.802
## [145] 3.775 3.663 3.597 3.488 3.462 3.410 3.380 3.334 3.231 3.203 3.083
2.853
```

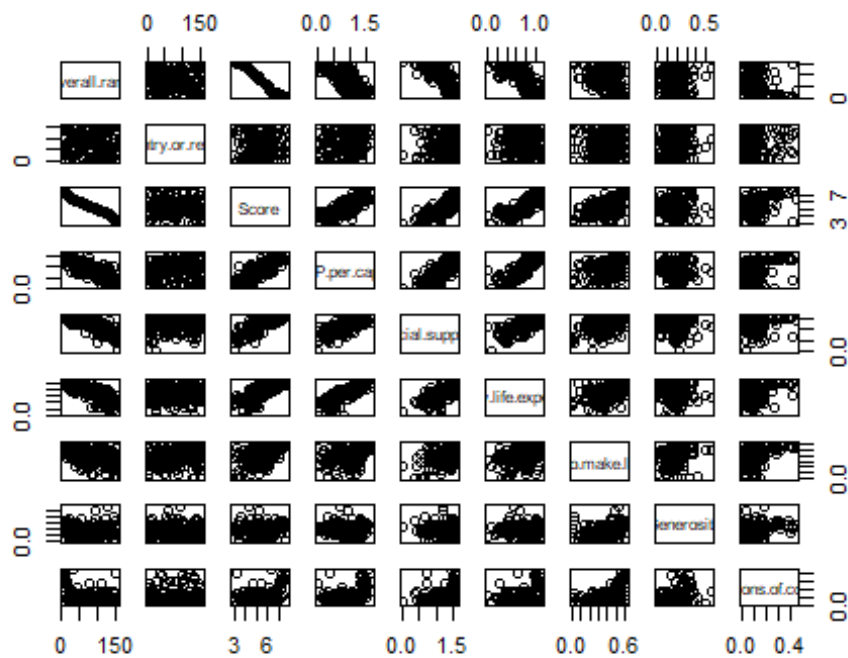
```
tapply(happy$Score, INDEX = happy$Overall.rank, mean)
```

```

##      1      2      3      4      5      6      7      8      9     10     11     12
13
## 7.769 7.600 7.554 7.494 7.488 7.480 7.343 7.307 7.278 7.246 7.228 7.167
7.139
##     14     15     16     17     18     19     20     21     22     23     24     25
26
## 7.090 7.054 7.021 6.985 6.923 6.892 6.852 6.825 6.726 6.595 6.592 6.446
6.444
##     27     28     29     30     31     32     33     34     35     36     37     38
39
## 6.436 6.375 6.374 6.354 6.321 6.300 6.293 6.262 6.253 6.223 6.199 6.198
6.192
##     40     41     42     43     44     45     46     47     48     49     50     51
52
## 6.182 6.174 6.149 6.125 6.118 6.105 6.100 6.086 6.070 6.046 6.028 6.021
6.008
##     53     54     55     56     57     58     59     60     61     62     63     64
65
## 5.940 5.895 5.893 5.890 5.888 5.886 5.860 5.809 5.779 5.758 5.743 5.718
5.697
##     66     67     68     69     70     71     72     73     74     75     76     77
78
## 5.693 5.653 5.648 5.631 5.603 5.529 5.525 5.523 5.467 5.432 5.430 5.425
5.386
##     79     80     81     82     83     84     85     86     87     88     89     90
91
## 5.373 5.339 5.323 5.287 5.285 5.274 5.265 5.261 5.247 5.211 5.208 5.208
5.197
##     92     93     94     95     96     97     98     99    100    101    102    103
104
## 5.192 5.191 5.175 5.082 5.044 5.011 4.996 4.944 4.913 4.906 4.883 4.812
4.799
##    105    106    107    108    109    110    111    112    113    114    115    116
117
## 4.796 4.722 4.719 4.707 4.700 4.696 4.681 4.668 4.639 4.628 4.587 4.559
4.548
##    118    119    120    121    122    123    124    125    126    127    128    129
130
## 4.534 4.519 4.516 4.509 4.490 4.466 4.461 4.456 4.437 4.418 4.390 4.374
4.366
##    131    132    133    134    135    136    137    138    139    140    141    142
143
## 4.360 4.350 4.332 4.286 4.212 4.189 4.166 4.107 4.085 4.015 3.975 3.973
3.933
##    144    145    146    147    148    149    150    151    152    153    154    155
156
## 3.802 3.775 3.663 3.597 3.488 3.462 3.410 3.380 3.334 3.231 3.203 3.083
2.853

```

```
plot(happy)
```

```
cumprod(happy1$Score)
```

##	[1]	7.632000e+00	5.795741e+01	4.378682e+02	3.281822e+03
2.457100e+04					
##	[6]	1.828328e+05	1.339799e+06	9.812688e+06	7.177000e+07
5.219114e+08					
##	[11]	3.752543e+09	2.678941e+10	1.894547e+11	1.321825e+12
9.206513e+12					
##	[16]	6.377352e+13	4.406750e+14	3.034488e+15	2.067700e+16
1.400660e+17					
##	[21]	9.399830e+17	6.229267e+18	4.042172e+19	2.622561e+20
1.698370e+21					
##	[26]	1.093920e+22	7.033908e+22	4.515066e+23	2.884224e+24
1.840712e+25					
##	[31]	1.174190e+26	7.484287e+26	4.768239e+27	3.024494e+28
1.912085e+29					
##	[36]	1.206526e+30	7.552851e+30	4.676726e+31	2.886943e+32
1.780378e+33					
##	[41]	1.093330e+34	6.694459e+34	4.086967e+35	2.491415e+36
1.515528e+37					
##	[46]	9.202285e+37	5.521371e+38	3.297915e+39	1.964238e+40
1.169115e+41					
##	[51]	6.953893e+41	4.134090e+42	2.452755e+43	1.450805e+44
8.546691e+44					
##	[56]	5.034001e+45	2.957476e+46	1.725687e+47	1.002624e+48
5.805194e+48					
##	[61]	3.344953e+49	1.924017e+50	1.104193e+51	6.272922e+51

```

3.552356e+52
## [66] 2.011344e+53 1.134398e+54 6.393466e+54 3.593128e+55
1.999935e+56
## [71] 1.104764e+57 6.080622e+57 3.334005e+58 1.828035e+59
1.000301e+60
## [76] 5.431633e+60 2.938513e+61 1.586210e+62 8.498911e+62
4.553716e+63
## [81] 2.434872e+64 1.295595e+65 6.869247e+65 3.637266e+66
1.911020e+67
## [86] 1.002521e+68 5.214111e+68 2.710817e+69 1.405558e+70
7.254087e+70
## [91] 3.739482e+71 1.918728e+72 9.841156e+72 5.043593e+73
2.573745e+74
## [96] 1.310808e+75 6.661529e+75 3.318774e+76 1.651090e+77
8.144826e+77
## [101] 3.974675e+78 1.910229e+79 9.088869e+79 4.310851e+80
2.036446e+81
## [106] 9.585551e+81 4.477411e+82 2.085130e+83 9.656238e+83
4.464079e+84
## [111] 2.049905e+85 9.400864e+85 4.297135e+86 1.959064e+87
8.815787e+87
## [116] 3.941538e+88 1.756350e+89 7.810486e+89 3.468637e+90
1.537647e+91
## [121] 6.802549e+91 3.006047e+92 1.327771e+93 5.855469e+93
2.562939e+94
## [126] 1.116416e+95 4.856410e+95 2.107682e+96 9.107294e+96
3.923422e+97
## [131] 1.687464e+98 7.163284e+98 3.001416e+99 1.250390e+100
5.202873e+100
## [136] 2.154510e+101 8.917515e+101 3.658856e+102 1.463177e+103
5.800032e+103
## [141] 2.208652e+104 8.381836e+104 3.163305e+105 1.167892e+106
4.241784e+106
## [146] 1.522801e+107 5.462286e+107 1.956591e+108 6.838284e+108
2.367414e+109
## [151] 8.068147e+109 2.706863e+110 8.940770e+110 2.909326e+111
8.969453e+111
## [156] 2.605626e+112

cummax(happy$GDP.per.capita)

## [1] 1.340 1.383 1.488 1.488 1.488 1.488 1.488 1.488 1.488 1.488 1.488 1.488
1.488
## [13] 1.488 1.609 1.609 1.609 1.609 1.609 1.609 1.609 1.609 1.609 1.609 1.609
1.609
## [25] 1.609 1.609 1.609 1.609 1.684 1.684 1.684 1.684 1.684 1.684 1.684 1.684
1.684
## [37] 1.684 1.684 1.684 1.684 1.684 1.684 1.684 1.684 1.684 1.684 1.684 1.684
1.684
## [49] 1.684 1.684 1.684 1.684 1.684 1.684 1.684 1.684 1.684 1.684 1.684 1.684
1.684

```

```

1.684
## [61] 1.684 1.684 1.684 1.684 1.684 1.684 1.684 1.684 1.684 1.684 1.684 1.684
1.684
## [73] 1.684 1.684 1.684 1.684 1.684 1.684 1.684 1.684 1.684 1.684 1.684 1.684
1.684
## [85] 1.684 1.684 1.684 1.684 1.684 1.684 1.684 1.684 1.684 1.684 1.684 1.684
1.684
## [97] 1.684 1.684 1.684 1.684 1.684 1.684 1.684 1.684 1.684 1.684 1.684 1.684
1.684
## [109] 1.684 1.684 1.684 1.684 1.684 1.684 1.684 1.684 1.684 1.684 1.684 1.684
1.684
## [121] 1.684 1.684 1.684 1.684 1.684 1.684 1.684 1.684 1.684 1.684 1.684 1.684
1.684
## [133] 1.684 1.684 1.684 1.684 1.684 1.684 1.684 1.684 1.684 1.684 1.684 1.684
1.684
## [145] 1.684 1.684 1.684 1.684 1.684 1.684 1.684 1.684 1.684 1.684 1.684 1.684
1.684

```

```

cummin(happy$Score)

```

```

## [1] 7.769 7.600 7.554 7.494 7.488 7.480 7.343 7.307 7.278 7.246 7.228
7.167
## [13] 7.139 7.090 7.054 7.021 6.985 6.923 6.892 6.852 6.825 6.726 6.595
6.592
## [25] 6.446 6.444 6.436 6.375 6.374 6.354 6.321 6.300 6.293 6.262 6.253
6.223
## [37] 6.199 6.198 6.192 6.182 6.174 6.149 6.125 6.118 6.105 6.100 6.086
6.070
## [49] 6.046 6.028 6.021 6.008 5.940 5.895 5.893 5.890 5.888 5.886 5.860
5.809
## [61] 5.779 5.758 5.743 5.718 5.697 5.693 5.653 5.648 5.631 5.603 5.529
5.525
## [73] 5.523 5.467 5.432 5.430 5.425 5.386 5.373 5.339 5.323 5.287 5.285
5.274
## [85] 5.265 5.261 5.247 5.211 5.208 5.208 5.197 5.192 5.191 5.175 5.082
5.044
## [97] 5.011 4.996 4.944 4.913 4.906 4.883 4.812 4.799 4.796 4.722 4.719
4.707
## [109] 4.700 4.696 4.681 4.668 4.639 4.628 4.587 4.559 4.548 4.534 4.519
4.516
## [121] 4.509 4.490 4.466 4.461 4.456 4.437 4.418 4.390 4.374 4.366 4.360
4.350
## [133] 4.332 4.286 4.212 4.189 4.166 4.107 4.085 4.015 3.975 3.973 3.933
3.802
## [145] 3.775 3.663 3.597 3.488 3.462 3.410 3.380 3.334 3.231 3.203 3.083
2.853

```

```

rev(happy$Country.or.region)

```

```

## [1] "South Sudan"          "Central African Republic"
## [3] "Afghanistan"          "Tanzania"

```

##	[5]	"Rwanda"	"Yemen"
##	[7]	"Malawi"	"Syria"
##	[9]	"Botswana"	"Haiti"
##	[11]	"Zimbabwe"	"Burundi"
##	[13]	"Lesotho"	"Madagascar"
##	[15]	"Comoros"	"Liberia"
##	[17]	"India"	"Togo"
##	[19]	"Zambia"	"Egypt"
##	[21]	"Uganda"	"Swaziland"
##	[23]	"Ethiopia"	"Ukraine"
##	[25]	"Chad"	"Myanmar"
##	[27]	"Sri Lanka"	"Sierra Leone"
##	[29]	"Mali"	"Congo (Kinshasa)"
##	[31]	"Iraq"	"Bangladesh"
##	[33]	"Tunisia"	"Mozambique"
##	[35]	"Mauritania"	"Kenya"
##	[37]	"Gambia"	"Georgia"
##	[39]	"Guinea"	"Iran"
##	[41]	"Armenia"	"Burkina Faso"
##	[43]	"Niger"	"Namibia"
##	[45]	"Somalia"	"Senegal"
##	[47]	"Palestinian Territories"	"Cambodia"
##	[49]	"Venezuela"	"Albania"
##	[51]	"South Africa"	"Laos"
##	[53]	"Gabon"	"Congo (Brazzaville)"
##	[55]	"Benin"	"Jordan"
##	[57]	"Nepal"	"Ivory Coast"
##	[59]	"Ghana"	"Bulgaria"
##	[61]	"Cameroon"	"Bhutan"
##	[63]	"Vietnam"	"China"
##	[65]	"Indonesia"	"Lebanon"
##	[67]	"Azerbaijan"	"Morocco"
##	[69]	"Algeria"	"Turkmenistan"
##	[71]	"Kyrgyzstan"	"Nigeria"
##	[73]	"North Macedonia"	"Mongolia"
##	[75]	"Greece"	"Belarus"
##	[77]	"Malaysia"	"Turkey"
##	[79]	"Bosnia and Herzegovina"	"Dominican Republic"
##	[81]	"Hong Kong"	"Croatia"
##	[83]	"Tajikistan"	"Montenegro"
##	[85]	"Libya"	"Moldova"
##	[87]	"Serbia"	"Philippines"
##	[89]	"Russia"	"Pakistan"
##	[91]	"Portugal"	"Peru"
##	[93]	"Northern Cyprus"	"Paraguay"
##	[95]	"Hungary"	"Bolivia"
##	[97]	"Kazakhstan"	"Honduras"
##	[99]	"Japan"	"Mauritius"
##	[101]	"Jamaica"	"Estonia"
##	[103]	"South Korea"	"Latvia"

## [105]	"Thailand"	"Kuwait"
## [107]	"Ecuador"	"Cyprus"
## [109]	"Romania"	"Argentina"
## [111]	"Kosovo"	"Nicaragua"
## [113]	"Slovenia"	"Colombia"
## [115]	"Lithuania"	"Uzbekistan"
## [117]	"Poland"	"Trinidad & Tobago"
## [119]	"Slovakia"	"Bahrain"
## [121]	"Italy"	"El Salvador"
## [123]	"Singapore"	"Uruguay"
## [125]	"Brazil"	"Panama"
## [127]	"Spain"	"Qatar"
## [129]	"Saudi Arabia"	"Guatemala"
## [131]	"Chile"	"Taiwan"
## [133]	"France"	"Mexico"
## [135]	"Malta"	"United Arab Emirates"
## [137]	"Czech Republic"	"United States"
## [139]	"Belgium"	"Germany"
## [141]	"Ireland"	"United Kingdom"
## [143]	"Luxembourg"	"Israel"
## [145]	"Costa Rica"	"Australia"
## [147]	"Austria"	"Canada"
## [149]	"New Zealand"	"Sweden"
## [151]	"Switzerland"	"Netherlands"
## [153]	"Iceland"	"Norway"
## [155]	"Denmark"	"Finland"