
Sustainable Development Goals

Release 1.0

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SUSTAINABLE DEVELOPMENT REPORT

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This website was designed to provide insights on the 17 Sustainable Development Goals (SDG) defined by United Nations. The Sustainable Development Goals (SDGs) are a universal call to action to end poverty, protect the planet and improve the lives and prospects of everyone, everywhere. The 17 Goals were adopted by all UN Member States in 2015, as part of the 2030 [Agenda for Sustainable Development](#).

RANKINGS

1.1 World Index Score

```
import pandas as pd
import altair as alt

source = pd.read_csv('rankings/average.csv')

alt.Chart(source).mark_line(point=True).encode(
    alt.X('Year', scale=alt.Scale(zero=False)),
    alt.Y('Average', scale=alt.Scale(zero=False)),
    order='Year',
    tooltip=['Average']
)
```

[graph]

1.2 Index Score versus Spillover Score

2021

2020

1.3 Overall performance

All 193 UN Member States are ranked by their overall score. The overall score measures a country's total progress towards achieving all 17 SDGs. The score can be interpreted as a percentage of SDG achievement. A score of 100 indicates that all SDGs have been achieved.

2021

All regions

Table 1: All regions

Rank	Flag	Country	Score
1		Finland	85.90
2		Sweden	85.61

continues on next page

Table 1 – continued from previous page

Rank	Flag	Country	Score
3		Denmark	84.86
4		Germany	82.48
5		Belgium	82.19
6		Austria	82.08
7		Norway	81.98
8		France	81.67
9		Slovenia	81.60
10		Estonia	81.58
11		Netherlands	81.56
12		Czech Republic	81.39
13		Ireland	80.96
14		Croatia	80.38
15		Poland	80.22
16		Switzerland	80.10
17		United Kingdom	79.97
18		Japan	79.85
19		Slovak Republic	79.57
20		Spain	79.46
21		Canada	79.16
22		Latvia	79.15
23		New Zealand	79.13
24		Belarus	78.82
25		Hungary	78.78
26		Italy	78.76
27		Portugal	78.64
28		Korea, Rep.	78.59
29		Iceland	78.17
30		Chile	77.13
31		Lithuania	76.70
32		United States	76.01
33		Malta	75.75
34		Serbia	75.59
35		Australia	75.58
36		Ukraine	75.51
37		Greece	75.41
38		Israel	75.04
39		Romania	74.97
40		Cyprus	74.87
41		Uruguay	74.55
42		Luxembourg	74.21
43		Thailand	74.19
44		Kyrgyz Republic	74.00
45		Bulgaria	73.81
46		Russian Federation	73.75
47		Bosnia and Herzegovina	73.70
48		Moldova	73.68
49		Cuba	73.65
50		Costa Rica	73.55
51		Vietnam	72.85

continues on next page

Table 1 – continued from previous page

Rank	Flag	Country	Score
52		Argentina	72.80
53		Ecuador	72.54
54		North Macedonia	72.53
55		Azerbaijan	72.41
56		Georgia	72.23
57		China	72.06
58		Armenia	71.79
59		Kazakhstan	71.64
60		Tunisia	71.44
61		Brazil	71.34
62		Fiji	71.24
63		Peru	71.09
64		Albania	71.02
65		Malaysia	70.88
66		Algeria	70.86
67		Dominican Republic	70.76
68		Colombia	70.56
69		Morocco	70.53
70		Turkey	70.38
71		United Arab Emirates	70.17
72		Jordan	70.14
73		Oman	70.13
74		Iran, Islamic Rep.	70.01
75		Bhutan	69.98
76		Singapore	69.89
77		Uzbekistan	69.84
78		Tajikistan	69.76
79		Maldives	69.27
80		Mexico	69.13
81		Jamaica	68.97
82		Egypt, Arab Rep.	68.65
83		Barbados	68.45
84		Brunei Darussalam	68.27
85		Montenegro	68.21
86		Cabo Verde	68.14
87		Sri Lanka	68.10
88		Panama	67.98
89		El Salvador	67.93
90		Bolivia	67.60
91		Suriname	66.98
92		Paraguay	66.94
93		Lebanon	66.84
94		Qatar	66.73
95		Mauritius	66.71
96		Nepal	66.52
97		Indonesia	66.34
98		Saudi Arabia	66.30
99		Nicaragua	66.29
100		Bahrain	66.06

continues on next page

Table 1 – continued from previous page

Rank	Flag	Country	Score
101		Myanmar	64.95
102		Cambodia	64.54
103		Philippines	64.51
104		Belize	64.43
105		Iraq	63.82
106		Mongolia	63.79
107		South Africa	63.74
108		Trinidad and Tobago	63.50
109		Bangladesh	63.45
110		Lao PDR	63.01
111		Gabon	62.82
112		Honduras	62.77
113		Kuwait	62.54
114		Ghana	62.49
115		Botswana	61.92
116		Namibia	61.77
117		Turkmenistan	61.14
118		Kenya	60.60
119		Vanuatu	60.52
120		India	60.07
121		Guatemala	59.91
122		Venezuela, RB	59.32
123		Gambia, The	59.26
124		Sao Tome and Principe	58.79
125		Zimbabwe	58.66
126		Senegal	58.43
127		Syrian Arab Republic	58.01
128		Guyana	57.89
129		Pakistan	57.72
130		Rwanda	57.58
131		Cote d'Ivoire	57.56
132		Tanzania	56.43
133		Mauritania	55.51
134		Cameroon	55.26
135		Lesotho	54.59
136		Ethiopia	54.52
137		Afghanistan	53.93
138		Djibouti	53.76
139		Burkina Faso	53.51
140		Uganda	53.46
141		Zambia	53.39
142		Eswatini	53.33
143		Togo	53.23
144		Congo, Rep.	52.95
145		Yemen, Rep.	52.86
146		Mali	52.16
147		Burundi	51.80
148		Sierra Leone	51.69
149		Malawi	51.37

continues on next page

Table 1 – continued from previous page

Rank	Flag	Country	Score
150		Haiti	51.35
151		Papua New Guinea	51.33
152		Mozambique	51.05
153		Guinea	50.96
154		Angola	50.30
155		Benin	49.87
156		Niger	49.53
157		Sudan	49.48
158		Congo, Dem. Rep.	49.30
159		Madagascar	49.01
160		Nigeria	48.93
161		Liberia	48.65
162		Somalia	45.61
163		Chad	40.90
164		South Sudan	38.90
165		Central African Republic	38.27
nan		Andorra	nan
nan		Antigua and Barbuda	nan
nan		Bahamas, The	nan
nan		Comoros	nan
nan		Dominica	nan
nan		Eritrea	nan
nan		Micronesia, Fed. Sts.	nan
nan		Guinea-Bissau	nan
nan		Equatorial Guinea	nan
nan		Grenada	nan
nan		Kiribati	nan
nan		St. Kitts and Nevis	nan
nan		Libya	nan
nan		St. Lucia	nan
nan		Liechtenstein	nan
nan		Monaco	nan
nan		Marshall Islands	nan
nan		Nauru	nan
nan		Palau	nan
nan		Korea, Dem. Rep.	nan
nan		Solomon Islands	nan
nan		San Marino	nan
nan		Seychelles	nan
nan		Timor-Leste	nan
nan		Tonga	nan
nan		Tuvalu	nan
nan		St. Vincent and the Grenadines	nan
nan		Samoa	nan

Table 2: Sub-Saharan Africa

Rank	Flag	Country	Score
86		Cabo Verde	68.14

continues on next page

Table 2 – continued from previous page

Rank	Flag	Country	Score
95		Mauritius	66.71
107		South Africa	63.74
111		Gabon	62.82
114		Ghana	62.49
115		Botswana	61.92
116		Namibia	61.77
118		Kenya	60.60
123		Gambia, The	59.26
124		Sao Tome and Principe	58.79
125		Zimbabwe	58.66
126		Senegal	58.43
130		Rwanda	57.58
131		Cote d'Ivoire	57.56
132		Tanzania	56.43
133		Mauritania	55.51
134		Cameroon	55.26
135		Lesotho	54.59
136		Ethiopia	54.52
138		Djibouti	53.76
139		Burkina Faso	53.51
140		Uganda	53.46
141		Zambia	53.39
142		Eswatini	53.33
143		Togo	53.23
144		Congo, Rep.	52.95
146		Mali	52.16
147		Burundi	51.80
148		Sierra Leone	51.69
149		Malawi	51.37
152		Mozambique	51.05
153		Guinea	50.96
154		Angola	50.30
155		Benin	49.87
156		Niger	49.53
157		Sudan	49.48
158		Congo, Dem. Rep.	49.30
159		Madagascar	49.01
160		Nigeria	48.93
161		Liberia	48.65
162		Somalia	45.61
163		Chad	40.90
164		South Sudan	38.90
165		Central African Republic	38.27
nan		Comoros	nan
nan		Eritrea	nan
nan		Guinea-Bissau	nan
nan		Equatorial Guinea	nan
nan		Seychelles	nan

2020

All regions

Table 3: All regions

Rank	Flag	Country	Score
1		Sweden	84.72
2		Denmark	84.56
3		Finland	83.77
4		France	81.13
5		Germany	80.77
6		Norway	80.76
7		Austria	80.70
8		Czech Republic	80.58
9		Netherlands	80.37
10		Estonia	80.06
11		Belgium	79.96
12		Slovenia	79.80
13		United Kingdom	79.79
14		Ireland	79.38
15		Switzerland	79.35
16		New Zealand	79.20
17		Japan	79.17
18		Belarus	78.76
19		Croatia	78.40
20		Korea, Rep.	78.34
21		Canada	78.19
22		Spain	78.11
23		Poland	78.10
24		Latvia	77.73
25		Portugal	77.65
26		Iceland	77.52
27		Slovak Republic	77.51
28		Chile	77.42
29		Hungary	77.34
30		Italy	77.01
31		United States	76.43
32		Malta	75.97
33		Serbia	75.23
34		Cyprus	75.21
35		Costa Rica	75.08
36		Lithuania	74.95
37		Australia	74.87
38		Romania	74.78
39		Bulgaria	74.77
40		Israel	74.60
41		Thailand	74.54
42		Moldova	74.44
43		Greece	74.33
44		Luxembourg	74.31
45		Uruguay	74.28
46		Ecuador	74.26
47		Ukraine	74.24

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Table 3 – continued from previous page

Rank	Flag	Country	Score
48		China	73.89
49		Vietnam	73.80
50		Bosnia and Herzegovina	73.48
51		Argentina	73.17
52		Kyrgyz Republic	73.01
53		Brazil	72.67
54		Azerbaijan	72.61
55		Cuba	72.58
56		Algeria	72.27
57		Russian Federation	71.92
58		Georgia	71.88
59		Iran, Islamic Rep.	71.81
60		Malaysia	71.76
61		Peru	71.75
62		North Macedonia	71.40
63		Tunisia	71.37
64		Morocco	71.29
65		Kazakhstan	71.06
66		Uzbekistan	71.02
67		Colombia	70.91
68		Albania	70.82
69		Mexico	70.44
70		Turkey	70.30
71		United Arab Emirates	70.30
72		Montenegro	70.19
73		Dominican Republic	70.17
74		Fiji	69.95
75		Armenia	69.86
76		Oman	69.67
77		El Salvador	69.62
78		Tajikistan	69.43
79		Bolivia	69.27
80		Bhutan	69.27
81		Panama	69.19
82		Bahrain	68.83
83		Egypt, Arab Rep.	68.79
84		Jamaica	68.66
85		Nicaragua	68.66
86		Suriname	68.36
87		Barbados	68.29
88		Brunei Darussalam	68.15
89		Jordan	68.05
90		Paraguay	67.71
91		Maldives	67.59
92		Cabo Verde	67.18
93		Singapore	67.00
94		Sri Lanka	66.88
95		Lebanon	66.68
96		Nepal	65.93

continues on next page

Table 3 – continued from previous page

Rank	Flag	Country	Score
97		Saudi Arabia	65.85
98		Trinidad and Tobago	65.76
99		Philippines	65.50
100		Ghana	65.37
101		Indonesia	65.30
102		Belize	65.08
103		Qatar	64.65
104		Myanmar	64.58
105		Honduras	64.44
106		Cambodia	64.39
107		Mongolia	63.98
108		Mauritius	63.77
109		Bangladesh	63.51
110		South Africa	63.41
111		Gabon	63.40
112		Kuwait	63.14
113		Iraq	63.14
114		Turkmenistan	63.03
115		Sao Tome and Principe	62.57
116		Lao PDR	62.06
117		India	61.92
118		Venezuela, RB	61.68
119		Namibia	61.63
120		Guatemala	61.54
121		Botswana	61.45
122		Vanuatu	60.89
123		Kenya	60.17
124		Guyana	59.74
125		Zimbabwe	59.51
126		Syrian Arab Republic	59.33
127		Senegal	58.27
128		Cote d'Ivoire	57.91
129		Gambia, The	57.86
130		Mauritania	57.72
131		Tanzania	56.64
132		Rwanda	56.56
133		Cameroon	56.54
134		Pakistan	56.17
135		Congo, Rep.	55.25
136		Ethiopia	55.23
137		Burkina Faso	55.22
138		Djibouti	54.56
139		Afghanistan	54.22
140		Mozambique	54.13
141		Lesotho	54.00
142		Uganda	53.49
143		Burundi	53.46
144		Eswatini	53.40
145		Benin	53.31

continues on next page

Table 3 – continued from previous page

Rank	Flag	Country	Score
146		Comoros	53.07
147		Togo	52.70
148		Zambia	52.67
149		Angola	52.59
150		Guinea	52.47
151		Yemen, Rep.	52.33
152		Malawi	52.20
153		Sierra Leone	51.91
154		Haiti	51.69
155		Papua New Guinea	51.66
156		Mali	51.39
157		Niger	50.15
158		Congo, Dem. Rep.	49.71
159		Sudan	49.56
160		Nigeria	49.28
161		Madagascar	49.14
162		Liberia	47.12
163		Somalia	46.21
164		Chad	43.75
165		South Sudan	43.66
166		Central African Republic	38.54
nan		Andorra	nan
nan		Antigua and Barbuda	nan
nan		Bahamas, The	nan
nan		Dominica	nan
nan		Eritrea	nan
nan		Micronesia, Fed. Sts.	nan
nan		Guinea-Bissau	nan
nan		Equatorial Guinea	nan
nan		Grenada	nan
nan		Kiribati	nan
nan		St. Kitts and Nevis	nan
nan		Libya	nan
nan		St. Lucia	nan
nan		Liechtenstein	nan
nan		Monaco	nan
nan		Marshall Islands	nan
nan		Nauru	nan
nan		Palau	nan
nan		Korea, Dem. Rep.	nan
nan		Solomon Islands	nan
nan		San Marino	nan
nan		Seychelles	nan
nan		Timor-Leste	nan
nan		Tonga	nan
nan		Tuvalu	nan
nan		St. Vincent and the Grenadines	nan
nan		Samoa	nan

Table 4: Sub-Saharan Africa

Rank	Flag	Country	Score
92		Cabo Verde	67.18
100		Ghana	65.37
108		Mauritius	63.77
110		South Africa	63.41
111		Gabon	63.40
115		Sao Tome and Principe	62.57
119		Namibia	61.63
121		Botswana	61.45
123		Kenya	60.17
125		Zimbabwe	59.51
127		Senegal	58.27
128		Cote d'Ivoire	57.91
129		Gambia, The	57.86
130		Mauritania	57.72
131		Tanzania	56.64
132		Rwanda	56.56
133		Cameroon	56.54
135		Congo, Rep.	55.25
136		Ethiopia	55.23
137		Burkina Faso	55.22
138		Djibouti	54.56
140		Mozambique	54.13
141		Lesotho	54.00
142		Uganda	53.49
143		Burundi	53.46
144		Eswatini	53.40
145		Benin	53.31
146		Comoros	53.07
147		Togo	52.70
148		Zambia	52.67
149		Angola	52.59
150		Guinea	52.47
152		Malawi	52.20
153		Sierra Leone	51.91
156		Mali	51.39
157		Niger	50.15
158		Congo, Dem. Rep.	49.71
159		Sudan	49.56
160		Nigeria	49.28
161		Madagascar	49.14
162		Liberia	47.12
163		Somalia	46.21
164		Chad	43.75
165		South Sudan	43.66
166		Central African Republic	38.54
nan		Eritrea	nan
nan		Guinea-Bissau	nan
nan		Equatorial Guinea	nan
nan		Seychelles	nan

2019

All regions

Table 5: All regions

Rank	Flag	Country	Score
1		Denmark	85.22
2		Sweden	84.99
3		Finland	82.82
4		France	81.49
5		Austria	81.07
6		Germany	81.07
7		Czech Republic	80.74
8		Norway	80.66
9		Netherlands	80.38
10		Estonia	80.22
11		New Zealand	79.50
12		Slovenia	79.41
13		United Kingdom	79.38
14		Iceland	79.20
15		Japan	78.92
16		Belgium	78.89
17		Switzerland	78.84
18		Korea, Rep.	78.33
19		Ireland	78.22
20		Canada	77.89
21		Spain	77.84
22		Croatia	77.79
23		Belarus	77.44
24		Latvia	77.13
25		Hungary	76.89
26		Portugal	76.43
27		Slovak Republic	76.21
28		Malta	76.11
29		Poland	75.93
30		Italy	75.79
31		Chile	75.61
32		Lithuania	75.10
33		Costa Rica	74.98
34		Luxembourg	74.78
35		United States	74.52
36		Bulgaria	74.52
37		Moldova	74.41
38		Australia	73.89
39		China	73.21
40		Thailand	73.00
41		Ukraine	72.81
42		Romania	72.73
43		Uruguay	72.55
44		Serbia	72.49
45		Argentina	72.35

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Table 5 – continued from previous page

Rank	Flag	Country	Score
46		Ecuador	72.29
47		Maldives	72.12
48		Kyrgyz Republic	71.62
49		Israel	71.53
50		Greece	71.41
51		Peru	71.19
52		Uzbekistan	71.13
53		Algeria	71.10
54		Vietnam	71.09
55		Russian Federation	70.94
56		Cuba	70.82
57		Brazil	70.62
58		Iran, Islamic Rep.	70.49
59		Azerbaijan	70.46
60		Albania	70.27
61		Cyprus	70.14
62		Fiji	70.07
63		Tunisia	69.99
64		Dominican Republic	69.76
65		United Arab Emirates	69.71
66		Singapore	69.62
67		Colombia	69.57
68		Malaysia	69.56
69		Bosnia and Herzegovina	69.39
70		North Macedonia	69.38
71		Tajikistan	69.23
72		Morocco	69.07
73		Georgia	68.91
74		Jamaica	68.80
75		Armenia	68.77
76		Bahrain	68.72
77		Kazakhstan	68.71
78		Mexico	68.51
79		Turkey	68.49
80		Bolivia	68.39
81		Jordan	68.09
82		Nicaragua	67.94
83		Oman	67.86
84		Bhutan	67.58
85		Trinidad and Tobago	67.56
86		Paraguay	67.52
87		Montenegro	67.25
88		Suriname	67.03
89		El Salvador	66.73
90		Panama	66.31
91		Qatar	66.28
92		Egypt, Arab Rep.	66.21
93		Sri Lanka	65.84
94		Lebanon	65.67

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Table 5 – continued from previous page

Rank	Flag	Country	Score
95		Sao Tome and Principe	65.48
96		Cabo Verde	65.05
97		Philippines	64.94
98		Saudi Arabia	64.84
99		Gabon	64.76
100		Mongolia	64.69
101		Turkmenistan	64.26
102		Indonesia	64.19
103		Nepal	63.93
104		Ghana	63.80
105		Mauritius	63.59
106		Kuwait	63.51
107		Honduras	63.41
108		Venezuela, RB	63.05
109		Belize	62.55
110		Myanmar	62.18
111		Lao PDR	62.03
112		Cambodia	61.78
113		South Africa	61.48
114		Guyana	61.41
115		India	61.08
116		Bangladesh	60.88
117		Iraq	60.79
118		Vanuatu	59.87
119		Namibia	59.87
120		Botswana	59.77
121		Zimbabwe	59.67
122		Guatemala	59.65
123		Syrian Arab Republic	58.13
124		Senegal	57.30
125		Kenya	57.03
126		Rwanda	56.02
127		Cameroon	56.02
128		Tanzania	55.82
129		Cote d'Ivoire	55.70
130		Pakistan	55.57
131		Gambia, The	55.00
132		Congo, Rep.	54.22
133		Yemen, Rep.	53.70
134		Mauritania	53.33
135		Ethiopia	53.25
136		Mozambique	53.03
137		Comoros	52.98
138		Guinea	52.81
139		Zambia	52.62
140		Uganda	52.57
141		Burkina Faso	52.40
142		Eswatini	51.69
143		Papua New Guinea	51.62

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Table 5 – continued from previous page

Rank	Flag	Country	Score
144		Togo	51.60
145		Burundi	51.55
146		Malawi	51.38
147		Sudan	51.36
148		Djibouti	51.36
149		Angola	51.32
150		Lesotho	50.94
151		Benin	50.85
152		Mali	50.21
153		Afghanistan	49.65
154		Niger	49.45
155		Sierra Leone	49.24
156		Haiti	48.44
157		Liberia	48.18
158		Madagascar	46.70
159		Nigeria	46.41
160		Congo, Dem. Rep.	44.95
161		Chad	42.79
162		Central African Republic	39.08
nan		Andorra	nan
nan		Antigua and Barbuda	nan
nan		Bahamas, The	nan
nan		Barbados	nan
nan		Brunei Darussalam	nan
nan		Dominica	nan
nan		Eritrea	nan
nan		Micronesia, Fed. Sts.	nan
nan		Guinea-Bissau	nan
nan		Equatorial Guinea	nan
nan		Grenada	nan
nan		Kiribati	nan
nan		St. Kitts and Nevis	nan
nan		Libya	nan
nan		St. Lucia	nan
nan		Liechtenstein	nan
nan		Monaco	nan
nan		Marshall Islands	nan
nan		Nauru	nan
nan		Palau	nan
nan		Korea, Dem. Rep.	nan
nan		Solomon Islands	nan
nan		San Marino	nan
nan		Somalia	nan
nan		South Sudan	nan
nan		Seychelles	nan
nan		Timor-Leste	nan
nan		Tonga	nan
nan		Tuvalu	nan
nan		St. Vincent and the Grenadines	nan

continues on next page

Table 5 – continued from previous page

Rank	Flag	Country	Score
nan		Samoa	nan

Table 6: Sub-Saharan Africa

Rank	Flag	Country	Score
95		Sao Tome and Principe	65.48
96		Cabo Verde	65.05
99		Gabon	64.76
104		Ghana	63.80
105		Mauritius	63.59
113		South Africa	61.48
119		Namibia	59.87
120		Botswana	59.77
121		Zimbabwe	59.67
124		Senegal	57.30
125		Kenya	57.03
126		Rwanda	56.02
127		Cameroon	56.02
128		Tanzania	55.82
129		Cote d'Ivoire	55.70
131		Gambia, The	55.00
132		Congo, Rep.	54.22
134		Mauritania	53.33
135		Ethiopia	53.25
136		Mozambique	53.03
137		Comoros	52.98
138		Guinea	52.81
139		Zambia	52.62
140		Uganda	52.57
141		Burkina Faso	52.40
142		Eswatini	51.69
144		Togo	51.60
145		Burundi	51.55
146		Malawi	51.38
147		Sudan	51.36
148		Djibouti	51.36
149		Angola	51.32
150		Lesotho	50.94
151		Benin	50.85
152		Mali	50.21
154		Niger	49.45
155		Sierra Leone	49.24
157		Liberia	48.18
158		Madagascar	46.70
159		Nigeria	46.41
160		Congo, Dem. Rep.	44.95
161		Chad	42.79
162		Central African Republic	39.08
nan		Eritrea	nan

continues on next page

Table 6 – continued from previous page

Rank	Flag	Country	Score
nan		Guinea-Bissau	nan
nan		Equatorial Guinea	nan
nan		Somalia	nan
nan		South Sudan	nan
nan		Seychelles	nan

2018

All regions

Table 7: All regions

Rank	Flag	Country	Score
1		Sweden	84.98
2		Denmark	84.61
3		Finland	83.00
4		Germany	82.28
5		France	81.22
6		Norway	81.17
7		Switzerland	80.09
8		Slovenia	79.98
9		Austria	79.95
10		Iceland	79.75
11		Netherlands	79.47
12		Belgium	79.00
13		Czech Republic	78.72
14		United Kingdom	78.67
15		Japan	78.52
16		Estonia	78.32
17		New Zealand	77.86
18		Ireland	77.47
19		Korea, Rep.	77.41
20		Canada	76.79
21		Croatia	76.52
22		Luxembourg	76.09
23		Belarus	75.99
24		Slovak Republic	75.60
25		Spain	75.42
26		Hungary	74.96
27		Latvia	74.75
28		Moldova	74.51
29		Italy	74.21
30		Malta	74.20
31		Portugal	74.03
32		Poland	73.67
33		Costa Rica	73.15
34		Bulgaria	73.13
35		United States	73.05
36		Lithuania	72.90
37		Australia	72.89

continues on next page

Table 7 – continued from previous page

Rank	Flag	Country	Score
38		Chile	72.79
39		Ukraine	72.34
40		Serbia	72.14
41		Israel	71.85
42		Cuba	71.34
43		Singapore	71.31
44		Romania	71.22
45		Azerbaijan	70.80
46		Ecuador	70.77
47		Georgia	70.65
48		Greece	70.64
49		Uruguay	70.42
50		Cyprus	70.36
51		Kyrgyz Republic	70.33
52		Uzbekistan	70.29
53		Argentina	70.28
54		China	70.05
55		Malaysia	70.01
56		Brazil	69.69
57		Vietnam	69.67
58		Armenia	69.27
59		Thailand	69.24
60		United Arab Emirates	69.22
61		Former Yugoslav Republic of Macedonia (FYROM)	68.95
62		Albania	68.91
63		Russian Federation	68.90
64		Peru	68.45
65		Kazakhstan	68.13
66		Bolivia	68.08
67		Suriname	67.97
68		Algeria	67.88
69		Montenegro	67.63
70		Trinidad and Tobago	67.51
71		Bosnia and Herzegovina	67.31
72		Paraguay	67.21
73		Tajikistan	67.18
74		Colombia	66.61
75		Dominican Republic	66.42
76		Nicaragua	66.38
77		Morocco	66.27
78		Tunisia	66.15
79		Turkey	65.96
80		Bahrain	65.90
81		Jamaica	65.90
82		Iran, Islamic Rep.	65.54
83		Bhutan	65.39
84		Mexico	65.21
85		Philippines	65.03
86		Panama	64.89

continues on next page

Table 7 – continued from previous page

Rank	Flag	Country	Score
87		Lebanon	64.79
88		Cabo Verde	64.68
89		Sri Lanka	64.56
90		Mauritius	64.50
91		Jordan	64.36
92		El Salvador	64.09
93		Venezuela, RB	64.00
94		Oman	63.91
95		Mongolia	63.86
96		Honduras	63.64
97		Egypt, Arab Rep.	63.47
98		Saudi Arabia	62.92
99		Indonesia	62.84
100		Gabon	62.84
101		Ghana	62.81
102		Nepal	62.75
103		Belize	62.32
104		Guyana	61.90
105		Kuwait	61.14
106		Qatar	60.85
107		South Africa	60.83
108		Lao PDR	60.63
109		Cambodia	60.38
110		Turkmenistan	59.47
111		Bangladesh	59.35
112		India	59.05
113		Myanmar	59.03
114		Namibia	58.93
115		Zimbabwe	58.76
116		Botswana	58.46
117		Guatemala	58.24
118		Senegal	57.17
119		Kenya	56.83
120		Rwanda	56.09
121		Cameroon	55.78
122		Cote d'Ivoire	55.18
123		Tanzania	55.15
124		Syrian Arab Republic	55.02
125		Uganda	54.93
126		Pakistan	54.89
127		Iraq	53.75
128		Ethiopia	53.23
129		Zambia	53.13
130		Congo, Rep.	52.38
131		Guinea	52.12
132		Togo	52.00
133		Gambia, The	51.58
134		Mauritania	51.57
135		Lesotho	51.51

continues on next page

Table 7 – continued from previous page

Rank	Flag	Country	Score
136		Burkina Faso	50.88
137		Swaziland	50.67
138		Mozambique	50.66
139		Djibouti	50.63
140		Malawi	49.97
141		Burundi	49.82
142		Mali	49.72
143		Sudan	49.58
144		Angola	49.56
145		Haiti	49.16
146		Sierra Leone	49.11
147		Benin	48.98
148		Niger	48.51
149		Liberia	48.30
150		Nigeria	47.48
151		Afghanistan	46.24
152		Yemen, Rep.	45.66
153		Madagascar	45.59
154		Congo, Dem. Rep.	43.39
155		Chad	42.81
156		Central African Republic	37.66
nan		Andorra	nan
nan		Antigua and Barbuda	nan
nan		Bahamas, The	nan
nan		Barbados	nan
nan		Brunei Darussalam	nan
nan		Comoros	nan
nan		Dominica	nan
nan		Equatorial Guinea	nan
nan		Eritrea	nan
nan		Fiji	nan
nan		Grenada	nan
nan		Guinea-Bissau	nan
nan		Kiribati	nan
nan		Korea, Dem. Rep.	nan
nan		Libya	nan
nan		Liechtenstein	nan
nan		Maldives	nan
nan		Marshall Islands	nan
nan		Micronesia, Fed. Sts.	nan
nan		Monaco	nan
nan		Nauru	nan
nan		Palau	nan
nan		Papua New Guinea	nan
nan		Samoa	nan
nan		San Marino	nan
nan		Sao Tome and Principe	nan
nan		Seychelles	nan
nan		Solomon Islands	nan

continues on next page

Table 7 – continued from previous page

Rank	Flag	Country	Score
nan		Somalia	nan
nan		South Sudan	nan
nan		St. Kitts and Nevis	nan
nan		St. Lucia	nan
nan		St. Vincent and the Grenadines	nan
nan		Timor-Leste	nan
nan		Tonga	nan
nan		Tuvalu	nan
nan		Vanuatu	nan

Table 8: Sub-Saharan Africa

Rank	Flag	Country	Score
88		Cabo Verde	64.68
90		Mauritius	64.50
100		Gabon	62.84
101		Ghana	62.81
107		South Africa	60.83
114		Namibia	58.93
115		Zimbabwe	58.76
116		Botswana	58.46
118		Senegal	57.17
119		Kenya	56.83
120		Rwanda	56.09
121		Cameroon	55.78
122		Cote d'Ivoire	55.18
123		Tanzania	55.15
125		Uganda	54.93
128		Ethiopia	53.23
129		Zambia	53.13
130		Congo, Rep.	52.38
131		Guinea	52.12
132		Togo	52.00
133		Gambia, The	51.58
134		Mauritania	51.57
135		Lesotho	51.51
136		Burkina Faso	50.88
137		Swaziland	50.67
138		Mozambique	50.66
139		Djibouti	50.63
140		Malawi	49.97
141		Burundi	49.82
142		Mali	49.72
143		Sudan	49.58
144		Angola	49.56
146		Sierra Leone	49.11
147		Benin	48.98
148		Niger	48.51
149		Liberia	48.30

continues on next page

Table 8 – continued from previous page

Rank	Flag	Country	Score
150		Nigeria	47.48
153		Madagascar	45.59
154		Congo, Dem. Rep.	43.39
155		Chad	42.81
156		Central African Republic	37.66
nan		Comoros	nan
nan		Equatorial Guinea	nan
nan		Eritrea	nan
nan		Guinea-Bissau	nan
nan		Sao Tome and Principe	nan
nan		Seychelles	nan
nan		Somalia	nan
nan		South Sudan	nan

2017

All regions

Table 9: All regions

Rank	Flag	Country	Score
1		Sweden	85.61
2		Denmark	84.16
3		Finland	84.02
4		Norway	83.94
5		Czech Republic	81.90
6		Germany	81.68
7		Austria	81.42
8		Switzerland	81.18
9		Slovenia	80.54
10		France	80.32
11		Japan	80.18
12		Belgium	79.96
13		Netherlands	79.94
14		Iceland	79.29
15		Estonia	78.56
16		United Kingdom	78.28
17		Canada	78.02
18		Hungary	78.00
19		Ireland	77.92
20		New Zealand	77.62
21		Belarus	77.12
22		Malta	77.02
23		Slovak Republic	76.93
24		Croatia	76.88
25		Spain	76.75
26		Australia	75.87
27		Poland	75.78
28		Portugal	75.57
29		Cuba	75.55

continues on next page

Table 9 – continued from previous page

Rank	Flag	Country	Score
30		Italy	75.50
31		Korea, Rep.	75.48
32		Latvia	75.23
33		Luxembourg	75.00
34		Moldova	74.22
35		Romania	74.13
36		Lithuania	73.63
37		Serbia	73.58
38		Greece	72.89
39		Ukraine	72.73
40		Bulgaria	72.51
41		Argentina	72.45
42		United States	72.40
43		Armenia	71.72
44		Chile	71.57
45		Uzbekistan	71.25
46		Kazakhstan	71.09
47		Uruguay	71.05
48		Azerbaijan	70.81
49		Kyrgyz Republic	70.67
50		Cyprus	70.60
51		Suriname	70.35
52		Israel	70.14
53		Costa Rica	69.81
54		Malaysia	69.68
55		Thailand	69.54
56		Brazil	69.51
57		Macedonia, FYR	69.36
58		Mexico	69.13
59		Trinidad and Tobago	69.11
60		Ecuador	69.04
61		Singapore	68.97
62		Russian Federation	68.93
63		Albania	68.90
64		Algeria	68.76
65		Tunisia	68.66
66		Georgia	68.58
67		Turkey	68.48
68		Vietnam	67.89
69		Montenegro	67.29
70		Dominican Republic	67.22
71		China	67.12
72		Tajikistan	66.77
73		Morocco	66.66
74		Jamaica	66.57
75		Paraguay	66.14
76		Belize	66.02
77		United Arab Emirates	66.01
78		Barbados	65.98

continues on next page

Table 9 – continued from previous page

Rank	Flag	Country	Score
79		Peru	65.97
80		Jordan	65.96
81		Sri Lanka	65.91
82		Venezuela, RB	65.83
83		Bhutan	65.51
84		Bosnia and Herzegovina	65.45
85		Gabon	65.14
86		Lebanon	64.93
87		Egypt, Arab Rep.	64.92
88		Colombia	64.80
89		Iran, Islamic Rep.	64.70
90		Bolivia	64.69
91		Guyana	64.66
92		Bahrain	64.59
93		Philippines	64.33
94		Oman	64.31
95		Mongolia	64.18
96		Panama	63.94
97		Nicaragua	63.11
98		Qatar	63.10
99		El Salvador	62.92
100		Indonesia	62.88
101		Saudi Arabia	62.68
102		Kuwait	62.40
103		Mauritius	62.12
104		Honduras	61.65
105		Nepal	61.57
106		Timor-Leste	61.51
107		Lao PDR	61.37
108		South Africa	61.25
109		Ghana	59.90
110		Myanmar	59.54
111		Namibia	59.27
112		Guatemala	58.32
113		Botswana	58.26
114		Cambodia	58.17
115		Syrian Arab Republic	58.14
116		India	58.07
117		Turkmenistan	56.73
118		Iraq	56.63
119		Senegal	56.24
120		Bangladesh	56.21
121		Zimbabwe	56.11
122		Pakistan	55.63
123		Rwanda	55.01
124		Swaziland	54.98
125		Kenya	54.93
126		Ethiopia	53.50
127		Cote d'Ivoire	53.34

continues on next page

Table 9 – continued from previous page

Rank	Flag	Country	Score
128		Lesotho	52.97
129		Uganda	52.86
130		Cameroon	52.83
131		Tanzania	52.08
132		Burundi	51.77
133		Mauritania	51.14
134		Zambia	51.08
135		Congo, Rep.	50.88
136		Angola	50.18
137		Togo	50.18
138		Burkina Faso	49.90
139		Sudan	49.87
140		Yemen, Rep.	49.80
141		Djibouti	49.59
142		Benin	49.47
143		Mozambique	49.24
144		Guinea	48.78
145		Nigeria	48.65
146		Mali	48.54
147		Malawi	48.02
148		Gambia, The	47.82
149		Sierra Leone	47.11
150		Afghanistan	46.81
151		Niger	44.80
152		Haiti	44.08
153		Madagascar	43.50
154		Liberia	42.82
155		Congo, Dem. Rep.	42.66
156		Chad	41.50
157		Central African Republic	36.75

Table 10: Sub-Saharan Africa

Rank	Flag	Country	Score
85		Gabon	65.14
103		Mauritius	62.12
108		South Africa	61.25
109		Ghana	59.90
111		Namibia	59.27
113		Botswana	58.26
119		Senegal	56.24
121		Zimbabwe	56.11
123		Rwanda	55.01
124		Swaziland	54.98
125		Kenya	54.93
126		Ethiopia	53.50
127		Cote d'Ivoire	53.34
128		Lesotho	52.97
129		Uganda	52.86

continues on next page

Table 10 – continued from previous page

Rank	Flag	Country	Score
130		Cameroon	52.83
131		Tanzania	52.08
132		Burundi	51.77
133		Mauritania	51.14
134		Zambia	51.08
135		Congo, Rep.	50.88
136		Angola	50.18
137		Togo	50.18
138		Burkina Faso	49.90
141		Djibouti	49.59
142		Benin	49.47
143		Mozambique	49.24
144		Guinea	48.78
145		Nigeria	48.65
146		Mali	48.54
147		Malawi	48.02
148		Gambia, The	47.82
149		Sierra Leone	47.11
151		Niger	44.80
153		Madagascar	43.50
154		Liberia	42.82
155		Congo, Dem. Rep.	42.66
156		Chad	41.50
157		Central African Republic	36.75

2016

All regions

Table 11: All regions

Rank	Flag	Country	Score
1		Sweden	84.53
2		Denmark	83.88
3		Norway	82.31
4		Finland	81.00
5		Switzerland	80.87
6		Germany	80.52
7		Austria	79.07
8		Netherlands	78.94
9		Iceland	78.41
10		United Kingdom	78.14
11		France	77.90
12		Belgium	77.43
13		Canada	76.85
14		Ireland	76.75
15		Czech Republic	76.73
16		Luxembourg	76.66
17		Slovenia	76.62
18		Japan	74.96

continues on next page

Table 11 – continued from previous page

Rank	Flag	Country	Score
19		Singapore	74.61
20		Australia	74.53
21		Estonia	74.48
22		New Zealand	74.04
23		Belarus	73.50
24		Hungary	73.37
25		United States	72.71
26		Slovak Republic	72.70
27		Korea, Rep.	72.67
28		Latvia	72.49
29		Israel	72.29
30		Spain	72.21
31		Lithuania	72.10
32		Malta	71.95
33		Bulgaria	71.80
34		Portugal	71.49
35		Italy	70.90
36		Croatia	70.71
37		Greece	69.90
38		Poland	69.81
39		Serbia	68.30
40		Uruguay	68.02
41		Romania	67.51
42		Chile	67.18
43		Argentina	66.82
44		Moldova	66.60
45		Cyprus	66.53
46		Ukraine	66.39
47		Russian Federation	66.36
48		Turkey	66.12
49		Qatar	65.83
50		Armenia	65.41
51		Tunisia	65.06
52		Brazil	64.44
53		Costa Rica	64.24
54		Kazakhstan	63.85
55		United Arab Emirates	63.58
56		Mexico	63.37
57		Georgia	63.28
58		Macedonia, FYR	62.76
59		Jordan	62.73
60		Montenegro	62.47
61		Thailand	62.17
62		Venezuela, RB	61.82
63		Malaysia	61.66
64		Morocco	61.62
65		Azerbaijan	61.34
66		Egypt, Arab Rep.	60.88
67		Kyrgyz Republic	60.85

continues on next page

Table 11 – continued from previous page

Rank	Flag	Country	Score
68		Albania	60.77
69		Mauritius	60.72
70		Panama	60.71
71		Ecuador	60.69
72		Tajikistan	60.17
73		Bosnia and Herzegovina	59.90
74		Oman	59.88
75		Paraguay	59.33
76		China	59.07
77		Jamaica	59.05
78		Trinidad and Tobago	59.05
79		Iran, Islamic Rep.	58.55
80		Botswana	58.42
81		Peru	58.38
82		Bhutan	58.17
83		Algeria	58.14
84		Mongolia	58.06
85		Saudi Arabia	58.03
86		Lebanon	57.99
87		Suriname	57.98
88		Vietnam	57.62
89		Bolivia	57.47
90		Nicaragua	57.39
91		Colombia	57.21
92		Dominican Republic	57.11
93		Gabon	56.21
94		El Salvador	55.64
95		Philippines	55.54
96		Cabo Verde	55.48
97		Sri Lanka	54.80
98		Indonesia	54.38
99		South Africa	53.78
100		Kuwait	52.54
101		Guyana	52.35
102		Honduras	51.78
103		Nepal	51.53
104		Ghana	51.41
105		Iraq	50.87
106		Guatemala	50.01
107		Lao PDR	49.91
108		Namibia	49.88
109		Zimbabwe	48.63
110		India	48.39
111		Congo, Rep.	47.19
112		Cameroon	46.33
113		Lesotho	45.95
114		Senegal	45.84
115		Pakistan	45.71
116		Swaziland	45.13

continues on next page

Table 11 – continued from previous page

Rank	Flag	Country	Score
117		Myanmar	44.50
118		Bangladesh	44.42
119		Cambodia	44.37
120		Kenya	44.04
121		Angola	44.01
122		Rwanda	43.99
123		Uganda	43.62
124		Cote d'Ivoire	43.49
125		Ethiopia	43.06
126		Tanzania	43.01
127		Sudan	42.17
128		Burundi	42.04
129		Togo	40.85
130		Benin	39.98
131		Malawi	39.77
132		Mauritania	39.60
133		Mozambique	39.48
134		Zambia	38.40
135		Mali	38.22
136		Gambia, The	37.77
137		Yemen, Rep.	37.31
138		Sierra Leone	36.92
139		Afghanistan	36.50
140		Madagascar	36.23
141		Nigeria	36.06
142		Guinea	35.93
143		Burkina Faso	35.63
144		Haiti	34.40
145		Chad	31.79
146		Niger	31.42
147		Congo, Dem. Rep.	31.29
148		Liberia	30.49
149		Central African Republic	26.10

Table 12: Sub-Saharan Africa

Rank	Flag	Country	Score
69		Mauritius	60.72
80		Botswana	58.42
93		Gabon	56.21
96		Cabo Verde	55.48
99		South Africa	53.78
104		Ghana	51.41
108		Namibia	49.88
109		Zimbabwe	48.63
111		Congo, Rep.	47.19
112		Cameroon	46.33
113		Lesotho	45.95
114		Senegal	45.84

continues on next page

Table 12 – continued from previous page

Rank	Flag	Country	Score
116		Swaziland	45.13
120		Kenya	44.04
121		Angola	44.01
122		Rwanda	43.99
123		Uganda	43.62
124		Cote d'Ivoire	43.49
125		Ethiopia	43.06
126		Tanzania	43.01
128		Burundi	42.04
129		Togo	40.85
130		Benin	39.98
131		Malawi	39.77
132		Mauritania	39.60
133		Mozambique	39.48
134		Zambia	38.40
135		Mali	38.22
136		Gambia, The	37.77
138		Sierra Leone	36.92
140		Madagascar	36.23
141		Nigeria	36.06
142		Guinea	35.93
143		Burkina Faso	35.63
145		Chad	31.79
146		Niger	31.42
147		Congo, Dem. Rep.	31.29
148		Liberia	30.49
149		Central African Republic	26.10

1.4 Spillover performance

Countries are ranked by their spillover score. Each country's actions can have positive or negative effects on other countries' abilities to achieve the SDGs. The Spillover Index assesses such spillovers along three dimensions: environmental & social impacts embodied into trade, economy & finance, and security. A higher score means that a country causes more positive and fewer negative spillover effects.

2021

All regions

Table 13: All regions

Rank	Flag	Country	Score
1		Myanmar	99.99
2		Sudan	99.99
3		Somalia	99.96
4		South Sudan	99.94
5		Chad	99.82
6		Burundi	99.77
7		Moldova	99.74

continues on next page

Table 13 – continued from previous page

Rank	Flag	Country	Score
8		Ethiopia	99.72
9		Pakistan	99.68
10		Central African Republic	99.65
11		Haiti	99.63
12		Mali	99.57
13		Cameroon	99.56
14		Mozambique	99.54
15		Sierra Leone	99.54
16		Guinea	99.53
17		Madagascar	99.52
18		Cote d'Ivoire	99.49
19		Congo, Dem. Rep.	99.40
20		Burkina Faso	99.37
21		Afghanistan	99.34
22		Bangladesh	99.33
23		Niger	99.30
24		Lao PDR	99.22
25		Uganda	99.21
26		Nepal	99.15
27		Senegal	99.15
28		Togo	99.14
29		Malawi	99.08
30		Yemen, Rep.	99.02
31		Nigeria	98.93
32		India	98.90
33		Rwanda	98.87
34		Cambodia	98.85
35		Benin	98.82
36		Egypt, Arab Rep.	98.72
37		Tanzania	98.50
38		Iraq	98.35
39		Zambia	98.33
40		Syrian Arab Republic	98.33
41		Morocco	98.26
42		Djibouti	98.24
43		Papua New Guinea	98.19
44		Uzbekistan	98.09
45		Zimbabwe	98.08
46		Nicaragua	98.05
47		Liberia	98.05
48		Mauritania	97.95
49		Philippines	97.92
50		Gambia, The	97.90
51		Bolivia	97.89
52		Congo, Rep.	97.74
53		Azerbaijan	97.64
54		Brazil	97.57
55		Tajikistan	97.50
56		Algeria	97.49

continues on next page

Table 13 – continued from previous page

Rank	Flag	Country	Score
57		Ghana	97.45
58		Ecuador	97.14
59		Cuba	97.10
60		Angola	97.02
61		Peru	96.88
62		Indonesia	96.87
63		Armenia	96.68
64		Belarus	96.66
65		Venezuela, RB	96.45
66		Sri Lanka	96.37
67		Vietnam	96.37
68		Kyrgyz Republic	96.03
69		Iran, Islamic Rep.	95.93
70		Bosnia and Herzegovina	95.84
71		Dominican Republic	95.59
72		Sao Tome and Principe	95.57
73		Mexico	95.46
74		Cabo Verde	95.43
75		Colombia	95.19
76		Lesotho	95.18
77		Mongolia	94.89
78		Kenya	94.89
79		Honduras	94.82
80		Kazakhstan	94.65
81		China	94.62
82		Argentina	94.54
83		Vanuatu	94.49
84		Albania	94.34
85		Tunisia	94.24
86		Ukraine	93.98
87		Bhutan	93.90
88		North Macedonia	93.87
89		Turkey	93.70
90		Paraguay	93.69
91		Jamaica	93.64
92		Belize	93.55
93		Chile	93.24
94		Fiji	93.19
95		Gabon	93.04
96		Uruguay	90.95
97		El Salvador	90.82
98		Georgia	90.73
99		Suriname	90.59
100		Turkmenistan	90.47
101		Jordan	90.39
102		Thailand	88.68
103		South Africa	88.56
104		Maldives	88.26
105		Trinidad and Tobago	88.12

continues on next page

Table 13 – continued from previous page

Rank	Flag	Country	Score
106		Namibia	87.54
107		Guatemala	87.28
108		Bulgaria	86.87
109		Croatia	84.83
110		Eswatini	84.81
111		Romania	83.99
112		Bahrain	83.92
113		Poland	83.56
114		Costa Rica	83.34
115		Serbia	82.57
116		Oman	81.85
117		Lebanon	81.16
118		Botswana	80.63
119		Russian Federation	80.51
120		Hungary	80.03
121		Barbados	78.83
122		Malaysia	77.77
123		Panama	76.34
124		Slovak Republic	75.04
125		Qatar	73.00
126		Greece	72.27
127		Estonia	72.08
128		Latvia	72.06
129		Korea, Rep.	71.63
130		Italy	71.19
131		Saudi Arabia	71.09
132		Brunei Darussalam	70.94
133		New Zealand	70.82
134		Portugal	69.92
135		Finland	69.84
136		Israel	69.63
137		Montenegro	69.31
138		Japan	68.78
139		Lithuania	68.38
140		Czech Republic	67.80
141		Sweden	67.09
142		Spain	64.75
143		Canada	64.07
144		Australia	63.92
145		Cyprus	63.84
146		United States	62.14
147		Belgium	61.97
148		Malta	61.38
149		Slovenia	60.76
150		Denmark	60.51
151		Germany	60.37
152		Iceland	60.27
153		Ireland	60.04
154		Austria	59.52

continues on next page

Table 13 – continued from previous page

Rank	Flag	Country	Score
155		Norway	58.71
156		France	55.89
157		United Kingdom	54.12
158		Mauritius	48.37
159		Netherlands	47.02
160		Kuwait	43.26
161		Switzerland	41.66
162		United Arab Emirates	38.82
163		Luxembourg	31.03
164		Guyana	30.00
165		Singapore	20.55
166		Andorra	nan
167		Antigua and Barbuda	nan
168		Bahamas, The	nan
169		Comoros	nan
170		Dominica	nan
171		Eritrea	nan
172		Micronesia, Fed. Sts.	nan
173		Guinea-Bissau	nan
174		Equatorial Guinea	nan
175		Grenada	nan
176		Kiribati	nan
177		St. Kitts and Nevis	nan
178		Libya	nan
179		St. Lucia	nan
180		Liechtenstein	nan
181		Monaco	nan
182		Marshall Islands	nan
183		Nauru	nan
184		Palau	nan
185		Korea, Dem. Rep.	nan
186		Solomon Islands	nan
187		San Marino	nan
188		Seychelles	nan
189		Timor-Leste	nan
190		Tonga	nan
191		Tuvalu	nan
192		St. Vincent and the Grenadines	nan
193		Samoa	nan

Table 14: Sub-Saharan Africa

Rank	Flag	Country	Score
1		Sudan	99.99
2		Somalia	99.96
3		South Sudan	99.94
4		Chad	99.82
5		Burundi	99.77
6		Ethiopia	99.72

continues on next page

Table 14 – continued from previous page

Rank	Flag	Country	Score
7		Central African Republic	99.65
8		Mali	99.57
9		Cameroon	99.56
10		Mozambique	99.54
11		Sierra Leone	99.54
12		Guinea	99.53
13		Madagascar	99.52
14		Cote d'Ivoire	99.49
15		Congo, Dem. Rep.	99.40
16		Burkina Faso	99.37
17		Niger	99.30
18		Uganda	99.21
19		Senegal	99.15
20		Togo	99.14
21		Malawi	99.08
22		Nigeria	98.93
23		Rwanda	98.87
24		Benin	98.82
25		Tanzania	98.50
26		Zambia	98.33
27		Djibouti	98.24
28		Zimbabwe	98.08
29		Liberia	98.05
30		Mauritania	97.95
31		Gambia, The	97.90
32		Congo, Rep.	97.74
33		Ghana	97.45
34		Angola	97.02
35		Sao Tome and Principe	95.57
36		Cabo Verde	95.43
37		Lesotho	95.18
38		Kenya	94.89
39		Gabon	93.04
40		South Africa	88.56
41		Namibia	87.54
42		Eswatini	84.81
43		Botswana	80.63
44		Mauritius	48.37
45		Comoros	nan
46		Eritrea	nan
47		Guinea-Bissau	nan
48		Equatorial Guinea	nan
49		Seychelles	nan

2020

All regions

Table 15: All regions

Rank	Flag	Country	Score
1		Comoros	100.00
2		Myanmar	100.00
3		Sudan	99.99
4		Somalia	99.96
5		South Sudan	99.94
6		Chad	99.81
7		Burundi	99.76
8		Moldova	99.75
9		Ethiopia	99.68
10		Pakistan	99.64
11		Niger	99.64
12		Central African Republic	99.64
13		Haiti	99.62
14		Sierra Leone	99.55
15		Mozambique	99.54
16		Mali	99.53
17		Guinea	99.52
18		Cote d'Ivoire	99.51
19		Cameroon	99.50
20		Benin	99.49
21		Madagascar	99.45
22		Congo, Dem. Rep.	99.39
23		Bangladesh	99.36
24		Afghanistan	99.34
25		Burkina Faso	99.30
26		Togo	99.26
27		Lao PDR	99.22
28		Nigeria	99.15
29		Nepal	99.14
30		Uganda	99.11
31		Senegal	99.05
32		Malawi	98.93
33		Yemen, Rep.	98.92
34		Cambodia	98.77
35		Rwanda	98.76
36		India	98.76
37		Egypt, Arab Rep.	98.55
38		Syrian Arab Republic	98.35
39		Vietnam	98.32
40		Iraq	98.30
41		Tanzania	98.28
42		Zimbabwe	98.20
43		Djibouti	98.18
44		Papua New Guinea	98.18
45		Philippines	98.15
46		Zambia	98.15
47		Morocco	98.14
48		Uzbekistan	98.08
49		Liberia	98.04

continues on next page

Table 15 – continued from previous page

Rank	Flag	Country	Score
50		Mauritania	97.96
51		Bolivia	97.89
52		Gambia, The	97.89
53		Nicaragua	97.85
54		Congo, Rep.	97.70
55		Azerbaijan	97.65
56		Indonesia	97.62
57		Tajikistan	97.54
58		Algeria	97.44
59		Ghana	97.41
60		Brazil	97.27
61		Cuba	97.08
62		Guatemala	96.96
63		Ecuador	96.85
64		Peru	96.71
65		Angola	96.67
66		Armenia	96.66
67		Sri Lanka	96.46
68		Venezuela, RB	96.41
69		Belarus	96.30
70		Kyrgyz Republic	96.05
71		Honduras	96.05
72		Dominican Republic	95.94
73		Bosnia and Herzegovina	95.82
74		Iran, Islamic Rep.	95.47
75		Sao Tome and Principe	95.39
76		Cabo Verde	95.29
77		Mongolia	94.95
78		Mexico	94.95
79		Colombia	94.71
80		Lesotho	94.52
81		Kenya	94.52
82		Albania	94.29
83		Vanuatu	94.28
84		China	94.16
85		Tunisia	94.15
86		Argentina	94.01
87		Kazakhstan	93.99
88		North Macedonia	93.84
89		Thailand	93.79
90		Bhutan	93.74
91		Paraguay	93.73
92		Belize	93.42
93		Ukraine	93.35
94		Turkey	93.33
95		Gabon	92.97
96		Jamaica	92.90
97		Chile	92.65
98		El Salvador	92.61

continues on next page

Table 15 – continued from previous page

Rank	Flag	Country	Score
99		Fiji	92.41
100		South Africa	91.96
101		Romania	91.59
102		Georgia	90.76
103		Suriname	90.61
104		Turkmenistan	90.44
105		Uruguay	89.99
106		Costa Rica	89.55
107		Jordan	89.17
108		Maldives	87.78
109		Trinidad and Tobago	86.83
110		Namibia	86.34
111		Malaysia	86.25
112		Bulgaria	85.39
113		Croatia	83.08
114		Eswatini	82.91
115		Bahrain	81.96
116		Panama	81.88
117		Poland	81.81
118		Serbia	80.93
119		Oman	79.82
120		Lebanon	78.77
121		Barbados	78.57
122		Botswana	78.54
123		Russian Federation	78.31
124		Hungary	77.07
125		Saudi Arabia	73.79
126		Slovak Republic	72.65
127		Latvia	70.43
128		New Zealand	70.09
129		Czech Republic	69.75
130		Estonia	69.42
131		Greece	69.35
132		Italy	69.02
133		Montenegro	68.92
134		Qatar	68.71
135		Korea, Rep.	68.59
136		Brunei Darussalam	67.57
137		Sweden	67.45
138		Israel	66.74
139		Portugal	66.66
140		Finland	66.64
141		Denmark	66.42
142		Slovenia	66.42
143		Japan	66.11
144		Lithuania	65.63
145		Australia	61.64
146		Spain	61.30
147		Canada	60.65

continues on next page

Table 15 – continued from previous page

Rank	Flag	Country	Score
148		Iceland	60.27
149		Belgium	59.94
150		Cyprus	59.86
151		United States	59.17
152		Ireland	57.85
153		Germany	57.00
154		Austria	56.28
155		Malta	56.26
156		Norway	54.06
157		United Kingdom	52.10
158		France	51.12
159		Netherlands	44.93
160		Mauritius	42.64
161		United Arab Emirates	37.42
162		Kuwait	36.56
163		Switzerland	35.76
164		Luxembourg	33.46
165		Guyana	22.22
166		Singapore	12.37
167		Andorra	nan
168		Antigua and Barbuda	nan
169		Bahamas, The	nan
170		Dominica	nan
171		Eritrea	nan
172		Micronesia, Fed. Sts.	nan
173		Guinea-Bissau	nan
174		Equatorial Guinea	nan
175		Grenada	nan
176		Kiribati	nan
177		St. Kitts and Nevis	nan
178		Libya	nan
179		St. Lucia	nan
180		Liechtenstein	nan
181		Monaco	nan
182		Marshall Islands	nan
183		Nauru	nan
184		Palau	nan
185		Korea, Dem. Rep.	nan
186		Solomon Islands	nan
187		San Marino	nan
188		Seychelles	nan
189		Timor-Leste	nan
190		Tonga	nan
191		Tuvalu	nan
192		St. Vincent and the Grenadines	nan
193		Samoa	nan

Table 16: Sub-Saharan Africa

Rank	Flag	Country	Score
1		Comoros	100.00
2		Sudan	99.99
3		Somalia	99.96
4		South Sudan	99.94
5		Chad	99.81
6		Burundi	99.76
7		Ethiopia	99.68
8		Niger	99.64
9		Central African Republic	99.64
10		Sierra Leone	99.55
11		Mozambique	99.54
12		Mali	99.53
13		Guinea	99.52
14		Cote d'Ivoire	99.51
15		Cameroon	99.50
16		Benin	99.49
17		Madagascar	99.45
18		Congo, Dem. Rep.	99.39
19		Burkina Faso	99.30
20		Togo	99.26
21		Nigeria	99.15
22		Uganda	99.11
23		Senegal	99.05
24		Malawi	98.93
25		Rwanda	98.76
26		Tanzania	98.28
27		Zimbabwe	98.20
28		Djibouti	98.18
29		Zambia	98.15
30		Liberia	98.04
31		Mauritania	97.96
32		Gambia, The	97.89
33		Congo, Rep.	97.70
34		Ghana	97.41
35		Angola	96.67
36		Sao Tome and Principe	95.39
37		Cabo Verde	95.29
38		Lesotho	94.52
39		Kenya	94.52
40		Gabon	92.97
41		South Africa	91.96
42		Namibia	86.34
43		Eswatini	82.91
44		Botswana	78.54
45		Mauritius	42.64
46		Eritrea	nan
47		Guinea-Bissau	nan
48		Equatorial Guinea	nan
49		Seychelles	nan

2019

All regions

Table 17: All regions

Rank	Flag	Country	Score
1		Myanmar	99.81
2		Chad	99.52
3		Sudan	99.42
4		India	99.41
5		Comoros	99.38
6		Pakistan	99.36
7		Burundi	99.35
8		Congo, Dem. Rep.	99.23
9		Lao PDR	99.21
10		Papua New Guinea	99.21
11		Ethiopia	99.12
12		Central African Republic	99.07
13		Malawi	99.02
14		Uzbekistan	98.95
15		Mali	98.92
16		Bolivia	98.82
17		Zambia	98.80
18		Egypt, Arab Rep.	98.68
19		Tanzania	98.64
20		Cambodia	98.63
21		Angola	98.60
22		Nepal	98.54
23		Moldova	98.45
24		Congo, Rep.	98.44
25		Philippines	98.31
26		Uganda	98.09
27		Kazakhstan	98.01
28		Bangladesh	98.00
29		Cameroon	97.96
30		Haiti	97.90
31		Niger	97.90
32		Nigeria	97.85
33		Indonesia	97.74
34		Togo	97.71
35		Tajikistan	97.65
36		Rwanda	97.63
37		Brazil	97.59
38		Ghana	97.52
39		Venezuela, RB	97.48
40		Azerbaijan	97.46
41		Chile	97.45
42		Mongolia	97.33
43		Liberia	97.22
44		Thailand	97.21
45		South Africa	97.10

continues on next page

Table 17 – continued from previous page

Rank	Flag	Country	Score
46		Gabon	97.09
47		Argentina	97.02
48		Cote d'Ivoire	96.99
49		Algeria	96.95
50		Senegal	96.95
51		Peru	96.87
52		Syrian Arab Republic	96.82
53		Burkina Faso	96.68
54		Benin	96.57
55		Ecuador	96.54
56		Mozambique	96.54
57		Nicaragua	96.52
58		Mauritania	96.40
59		Vietnam	96.37
60		Bosnia and Herzegovina	96.37
61		Cuba	96.25
62		Morocco	96.13
63		China	96.12
64		Zimbabwe	96.10
65		Madagascar	95.77
66		Guatemala	95.72
67		Paraguay	95.56
68		Kyrgyz Republic	95.39
69		Honduras	95.39
70		Dominican Republic	95.14
71		North Macedonia	94.78
72		Afghanistan	94.51
73		Fiji	94.38
74		Colombia	94.31
75		Sri Lanka	94.18
76		Ukraine	94.13
77		Yemen, Rep.	94.11
78		Guinea	94.07
79		Iraq	93.97
80		Romania	93.79
81		Sierra Leone	93.70
82		Mexico	93.33
83		Tunisia	93.18
84		Armenia	93.10
85		Vanuatu	92.97
86		Lesotho	92.49
87		Kenya	92.46
88		Iran, Islamic Rep.	92.35
89		Jamaica	92.24
90		Trinidad and Tobago	92.05
91		Belarus	91.91
92		Belize	91.81
93		El Salvador	91.57
94		Turkey	90.75

continues on next page

Table 17 – continued from previous page

Rank	Flag	Country	Score
95		Turkmenistan	90.52
96		Uruguay	90.48
97		Costa Rica	90.32
98		Sao Tome and Principe	90.31
99		Bulgaria	90.15
100		Suriname	89.89
101		Cabo Verde	89.72
102		Albania	89.68
103		Gambia, The	89.33
104		Malaysia	89.10
105		Georgia	89.09
106		Bhutan	88.72
107		Jordan	88.46
108		Croatia	85.89
109		Namibia	85.46
110		Eswatini	85.21
111		Poland	84.87
112		Lebanon	84.16
113		Djibouti	83.65
114		Estonia	82.88
115		Saudi Arabia	82.29
116		Russian Federation	82.24
117		Hungary	81.92
118		Czech Republic	79.76
119		Oman	79.00
120		New Zealand	78.10
121		Bahrain	78.01
122		Serbia	77.58
123		Panama	77.17
124		Denmark	75.96
125		Canada	73.40
126		Botswana	73.16
127		Lithuania	73.12
128		Korea, Rep.	72.33
129		Japan	72.13
130		Latvia	71.87
131		Slovak Republic	71.39
132		Portugal	70.86
133		Iceland	70.36
134		Spain	70.10
135		Slovenia	69.98
136		Maldives	69.57
137		Germany	67.80
138		Sweden	67.72
139		Finland	67.10
140		Qatar	66.00
141		Italy	65.62
142		Montenegro	64.98
143		Guyana	64.96

continues on next page

Table 17 – continued from previous page

Rank	Flag	Country	Score
144		Greece	64.64
145		Austria	63.23
146		Malta	62.94
147		Israel	62.03
148		Ireland	61.55
149		France	61.49
150		Australia	61.19
151		Belgium	58.49
152		Norway	53.43
153		United States	51.08
154		United Kingdom	50.72
155		Kuwait	50.01
156		Netherlands	49.58
157		Cyprus	49.55
158		Mauritius	48.61
159		United Arab Emirates	47.43
160		Luxembourg	41.62
161		Singapore	33.54
162		Switzerland	32.74
163		Andorra	nan
164		Antigua and Barbuda	nan
165		Bahamas, The	nan
166		Barbados	nan
167		Brunei Darussalam	nan
168		Dominica	nan
169		Eritrea	nan
170		Micronesia, Fed. Sts.	nan
171		Guinea-Bissau	nan
172		Equatorial Guinea	nan
173		Grenada	nan
174		Kiribati	nan
175		St. Kitts and Nevis	nan
176		Libya	nan
177		St. Lucia	nan
178		Liechtenstein	nan
179		Monaco	nan
180		Marshall Islands	nan
181		Nauru	nan
182		Palau	nan
183		Korea, Dem. Rep.	nan
184		Solomon Islands	nan
185		San Marino	nan
186		Somalia	nan
187		South Sudan	nan
188		Seychelles	nan
189		Timor-Leste	nan
190		Tonga	nan
191		Tuvalu	nan
192		St. Vincent and the Grenadines	nan

continues on next page

Table 17 – continued from previous page

Rank	Flag	Country	Score
193		Samoa	nan

Table 18: Sub-Saharan Africa

Rank	Flag	Country	Score
1		Chad	99.52
2		Sudan	99.42
3		Comoros	99.38
4		Burundi	99.35
5		Congo, Dem. Rep.	99.23
6		Ethiopia	99.12
7		Central African Republic	99.07
8		Malawi	99.02
9		Mali	98.92
10		Zambia	98.80
11		Tanzania	98.64
12		Angola	98.60
13		Congo, Rep.	98.44
14		Uganda	98.09
15		Cameroon	97.96
16		Niger	97.90
17		Nigeria	97.85
18		Togo	97.71
19		Rwanda	97.63
20		Ghana	97.52
21		Liberia	97.22
22		South Africa	97.10
23		Gabon	97.09
24		Cote d'Ivoire	96.99
25		Senegal	96.95
26		Burkina Faso	96.68
27		Benin	96.57
28		Mozambique	96.54
29		Mauritania	96.40
30		Zimbabwe	96.10
31		Madagascar	95.77
32		Guinea	94.07
33		Sierra Leone	93.70
34		Lesotho	92.49
35		Kenya	92.46
36		Sao Tome and Principe	90.31
37		Cabo Verde	89.72
38		Gambia, The	89.33
39		Namibia	85.46
40		Eswatini	85.21
41		Djibouti	83.65
42		Botswana	73.16
43		Mauritius	48.61
44		Eritrea	nan

continues on next page

Table 18 – continued from previous page

Rank	Flag	Country	Score
45		Guinea-Bissau	nan
46		Equatorial Guinea	nan
47		Somalia	nan
48		South Sudan	nan
49		Seychelles	nan

2018

All regions

Table 19: All regions

Rank	Flag	Country	Score
1		Myanmar	99.79
2		India	99.61
3		Chad	99.45
4		Pakistan	99.34
5		Sudan	99.33
6		Burundi	99.31
7		Congo, Dem. Rep.	99.27
8		Lao PDR	99.24
9		Malawi	99.12
10		Ethiopia	99.05
11		Central African Republic	98.95
12		Uzbekistan	98.95
13		Bolivia	98.93
14		Zambia	98.87
15		Mali	98.84
16		Egypt, Arab Rep.	98.71
17		Congo, Rep.	98.69
18		Angola	98.66
19		Cambodia	98.63
20		Nepal	98.53
21		Tanzania	98.52
22		Kazakhstan	98.38
23		Philippines	98.35
24		Moldova	98.28
25		Uganda	97.96
26		Bangladesh	97.86
27		Mongolia	97.80
28		Indonesia	97.76
29		Cameroon	97.74
30		Chile	97.71
31		Nigeria	97.69
32		Thailand	97.67
33		Niger	97.65
34		Haiti	97.65
35		Rwanda	97.63
36		Tajikistan	97.61
37		Brazil	97.55

continues on next page

Table 19 – continued from previous page

Rank	Flag	Country	Score
38		Togo	97.47
39		Venezuela, RB	97.45
40		Argentina	97.40
41		Azerbaijan	97.36
42		Gabon	97.30
43		Ghana	97.29
44		South Africa	97.20
45		Liberia	96.88
46		Algeria	96.84
47		Peru	96.83
48		Senegal	96.67
49		Cote d'Ivoire	96.59
50		Syrian Arab Republic	96.52
51		Ecuador	96.44
52		Burkina Faso	96.34
53		Nicaragua	96.29
54		Mauritania	96.23
55		Vietnam	96.22
56		Benin	96.17
57		Bosnia and Herzegovina	96.17
58		Cuba	96.14
59		Mozambique	96.10
60		Paraguay	95.89
61		Morocco	95.78
62		China	95.77
63		Zimbabwe	95.77
64		Kyrgyz Republic	95.47
65		Guatemala	95.42
66		Honduras	95.22
67		Madagascar	95.17
68		Dominican Republic	95.00
69		Former Yugoslav Republic of Macedonia (FYROM)	94.46
70		Colombia	94.10
71		Sri Lanka	94.04
72		Afghanistan	93.78
73		Romania	93.49
74		Iraq	93.45
75		Yemen, Rep.	93.37
76		Kenya	93.33
77		Guinea	93.29
78		Tunisia	92.94
79		Sierra Leone	92.88
80		Mexico	92.84
81		Trinidad and Tobago	92.54
82		Armenia	92.45
83		Lesotho	92.31
84		Iran, Islamic Rep.	91.74
85		Ukraine	91.70
86		Jamaica	91.69

continues on next page

Table 19 – continued from previous page

Rank	Flag	Country	Score
87		Belize	91.44
88		El Salvador	91.39
89		Bulgaria	91.04
90		Belarus	90.92
91		Uruguay	90.44
92		Costa Rica	90.28
93		Malaysia	90.16
94		Turkey	90.05
95		Suriname	89.98
96		Cabo Verde	88.77
97		Albania	88.75
98		Turkmenistan	88.70
99		Georgia	88.43
100		Bhutan	88.22
101		Gambia, The	87.68
102		Jordan	87.50
103		Croatia	85.44
104		Namibia	85.04
105		Swaziland	84.60
106		Poland	84.22
107		Lebanon	84.10
108		Saudi Arabia	83.38
109		Estonia	82.67
110		Djibouti	81.69
111		Hungary	80.93
112		Oman	80.74
113		Russian Federation	80.37
114		Czech Republic	79.66
115		Guyana	77.97
116		Bahrain	77.83
117		Serbia	75.90
118		New Zealand	75.90
119		Denmark	75.47
120		Panama	75.20
121		Canada	72.84
122		Korea, Rep.	71.63
123		Lithuania	71.63
124		Botswana	71.40
125		Iceland	71.36
126		Japan	71.33
127		Spain	70.27
128		Latvia	69.96
129		Portugal	69.89
130		Slovak Republic	69.66
131		Slovenia	68.58
132		Germany	67.46
133		Qatar	66.07
134		Finland	64.36
135		Montenegro	63.87

continues on next page

Table 19 – continued from previous page

Rank	Flag	Country	Score
136		Greece	63.50
137		Italy	63.11
138		Sweden	62.81
139		Austria	62.81
140		France	62.25
141		Australia	62.00
142		Malta	61.68
143		Ireland	59.83
144		Israel	58.99
145		Kuwait	57.14
146		Belgium	56.98
147		United Arab Emirates	53.14
148		Norway	51.57
149		Mauritius	49.90
150		United States	48.18
151		Netherlands	47.91
152		United Kingdom	47.82
153		Luxembourg	46.23
154		Cyprus	46.15
155		Singapore	37.48
156		Switzerland	29.33
157		Andorra	nan
158		Antigua and Barbuda	nan
159		Bahamas, The	nan
160		Barbados	nan
161		Brunei Darussalam	nan
162		Comoros	nan
163		Dominica	nan
164		Equatorial Guinea	nan
165		Eritrea	nan
166		Fiji	nan
167		Grenada	nan
168		Guinea-Bissau	nan
169		Kiribati	nan
170		Korea, Dem. Rep.	nan
171		Libya	nan
172		Liechtenstein	nan
173		Maldives	nan
174		Marshall Islands	nan
175		Micronesia, Fed. Sts.	nan
176		Monaco	nan
177		Nauru	nan
178		Palau	nan
179		Papua New Guinea	nan
180		Samoa	nan
181		San Marino	nan
182		Sao Tome and Principe	nan
183		Seychelles	nan
184		Solomon Islands	nan

continues on next page

Table 19 – continued from previous page

Rank	Flag	Country	Score
185		Somalia	nan
186		South Sudan	nan
187		St. Kitts and Nevis	nan
188		St. Lucia	nan
189		St. Vincent and the Grenadines	nan
190		Timor-Leste	nan
191		Tonga	nan
192		Tuvalu	nan
193		Vanuatu	nan

Table 20: Sub-Saharan Africa

Rank	Flag	Country	Score
1		Chad	99.45
2		Sudan	99.33
3		Burundi	99.31
4		Congo, Dem. Rep.	99.27
5		Malawi	99.12
6		Ethiopia	99.05
7		Central African Republic	98.95
8		Zambia	98.87
9		Mali	98.84
10		Congo, Rep.	98.69
11		Angola	98.66
12		Tanzania	98.52
13		Uganda	97.96
14		Cameroon	97.74
15		Nigeria	97.69
16		Niger	97.65
17		Rwanda	97.63
18		Togo	97.47
19		Gabon	97.30
20		Ghana	97.29
21		South Africa	97.20
22		Liberia	96.88
23		Senegal	96.67
24		Cote d'Ivoire	96.59
25		Burkina Faso	96.34
26		Mauritania	96.23
27		Benin	96.17
28		Mozambique	96.10
29		Zimbabwe	95.77
30		Madagascar	95.17
31		Kenya	93.33
32		Guinea	93.29
33		Sierra Leone	92.88
34		Lesotho	92.31
35		Cabo Verde	88.77
36		Gambia, The	87.68

continues on next page

Table 20 – continued from previous page

Rank	Flag	Country	Score
37		Namibia	85.04
38		Swaziland	84.60
39		Djibouti	81.69
40		Botswana	71.40
41		Mauritius	49.90
42		Comoros	nan
43		Equatorial Guinea	nan
44		Eritrea	nan
45		Guinea-Bissau	nan
46		Sao Tome and Principe	nan
47		Seychelles	nan
48		Somalia	nan
49		South Sudan	nan

2017

All regions

Table 21: All regions

Rank	Flag	Country	Score
1		Chad	99.53
2		India	99.47
3		Burundi	99.43
4		Congo, Dem. Rep.	99.40
5		Sudan	99.36
6		Myanmar	99.30
7		Malawi	99.27
8		Bolivia	99.19
9		Central African Republic	99.14
10		Uzbekistan	99.01
11		Ethiopia	98.95
12		Zambia	98.89
13		Mali	98.82
14		Cambodia	98.68
15		Pakistan	98.57
16		Lao PDR	98.29
17		Tanzania	98.16
18		Thailand	97.88
19		Rwanda	97.81
20		Argentina	97.80
21		Uganda	97.74
22		Moldova	97.72
23		Nepal	97.66
24		Angola	97.66
25		Mongolia	97.63
26		Kazakhstan	97.55
27		Brazil	97.50
28		Niger	97.42
29		Philippines	97.36

continues on next page

Table 21 – continued from previous page

Rank	Flag	Country	Score
30		Tajikistan	97.19
31		Indonesia	97.17
32		Nigeria	97.16
33		Haiti	97.02
34		Cameroon	97.00
35		Togo	96.91
36		Timor-Leste	96.84
37		Ecuador	96.80
38		Bangladesh	96.71
39		Egypt, Arab Rep.	96.69
40		Paraguay	96.66
41		Venezuela, RB	96.52
42		Peru	96.35
43		Ghana	96.22
44		South Africa	96.17
45		Chile	96.11
46		Burkina Faso	96.01
47		Cuba	95.98
48		Nicaragua	95.78
49		Liberia	95.76
50		Congo, Rep.	95.61
51		Gabon	95.52
52		Azerbaijan	95.46
53		Mozambique	95.29
54		Bosnia and Herzegovina	95.25
55		China	95.17
56		Mauritania	95.16
57		Guatemala	95.15
58		Madagascar	95.05
59		Senegal	94.96
60		Honduras	94.89
61		Morocco	94.83
62		Algeria	94.71
63		Lesotho	94.63
64		Kyrgyz Republic	94.55
65		Cote d'Ivoire	94.53
66		Dominican Republic	94.34
67		Guyana	94.13
68		Vietnam	94.03
69		Colombia	93.97
70		Benin	93.90
71		Romania	93.89
72		Zimbabwe	93.63
73		Syrian Arab Republic	93.47
74		Afghanistan	93.34
75		Sri Lanka	93.03
76		Guinea	92.97
77		Trinidad and Tobago	92.84
78		Sierra Leone	92.59

continues on next page

Table 21 – continued from previous page

Rank	Flag	Country	Score
79		Kenya	92.39
80		Suriname	92.38
81		Bhutan	92.29
82		Mexico	91.76
83		Ukraine	91.58
84		Macedonia, FYR	91.48
85		Tunisia	91.32
86		Uruguay	90.95
87		Yemen, Rep.	90.77
88		Belize	90.73
89		Bulgaria	90.50
90		Serbia	90.46
91		Jamaica	90.43
92		Armenia	90.43
93		Turkmenistan	90.42
94		Iran, Islamic Rep.	90.22
95		El Salvador	89.80
96		Costa Rica	89.46
97		Iraq	89.36
98		Albania	89.12
99		Georgia	88.95
100		Turkey	88.86
101		Belarus	88.78
102		Namibia	87.37
103		Swaziland	87.37
104		Croatia	86.67
105		Gambia, The	83.99
106		Jordan	83.66
107		Malaysia	83.27
108		Poland	82.93
109		Hungary	82.40
110		Lebanon	81.61
111		Estonia	81.46
112		Russian Federation	79.10
113		Czech Republic	78.88
114		Iceland	78.71
115		Saudi Arabia	78.64
116		Denmark	77.85
117		Panama	76.18
118		Oman	75.06
119		Montenegro	74.52
120		Lithuania	73.04
121		New Zealand	72.81
122		Australia	72.44
123		Bahrain	72.23
124		Canada	71.93
125		Botswana	71.05
126		Barbados	70.06
127		Latvia	69.92

continues on next page

Table 21 – continued from previous page

Rank	Flag	Country	Score
128		Japan	69.62
129		Spain	69.48
130		Slovenia	68.50
131		Djibouti	68.42
132		Portugal	67.85
133		Malta	67.75
134		Korea, Rep.	67.62
135		Slovak Republic	67.15
136		Austria	65.36
137		Germany	64.99
138		Qatar	64.02
139		Finland	63.97
140		Greece	63.24
141		Sweden	62.97
142		Ireland	62.83
143		France	62.75
144		Italy	60.41
145		Mauritius	58.01
146		Kuwait	57.14
147		Norway	56.82
148		Israel	55.88
149		United Kingdom	50.25
150		Belgium	49.46
151		United Arab Emirates	47.26
152		United States	46.91
153		Netherlands	46.38
154		Luxembourg	45.63
155		Cyprus	44.34
156		Singapore	37.49
157		Switzerland	36.37

Table 22: Sub-Saharan Africa

Rank	Flag	Country	Score
1		Chad	99.53
2		Burundi	99.43
3		Congo, Dem. Rep.	99.40
4		Malawi	99.27
5		Central African Republic	99.14
6		Ethiopia	98.95
7		Zambia	98.89
8		Mali	98.82
9		Tanzania	98.16
10		Rwanda	97.81
11		Uganda	97.74
12		Angola	97.66
13		Niger	97.42
14		Nigeria	97.16
15		Cameroon	97.00

continues on next page

Table 22 – continued from previous page

Rank	Flag	Country	Score
16		Togo	96.91
17		Ghana	96.22
18		South Africa	96.17
19		Burkina Faso	96.01
20		Liberia	95.76
21		Congo, Rep.	95.61
22		Gabon	95.52
23		Mozambique	95.29
24		Mauritania	95.16
25		Madagascar	95.05
26		Senegal	94.96
27		Lesotho	94.63
28		Cote d'Ivoire	94.53
29		Benin	93.90
30		Zimbabwe	93.63
31		Guinea	92.97
32		Sierra Leone	92.59
33		Kenya	92.39
34		Namibia	87.37
35		Swaziland	87.37
36		Gambia, The	83.99
37		Botswana	71.05
38		Djibouti	68.42
39		Mauritius	58.01

INTERACTIVE MAP

BASIC STATISTICAL VISUALIZATION

(This tutorial is adapted from [Vega-Lite's documentation](#))

This tutorial will guide you through the basic process of creating visualizations in Altair. First, you will need to make sure you have the Altair package and its dependencies installed (see [installation](#)) and make sure you understand how altair plots are displayed (see [displaying-charts](#)). This tutorial will assume you are working within a Jupyter notebook user interface, so that plots are automatically rendered.

Here is the outline of this basic tutorial:

- *The Data*
- *Encodings and Marks*
- *Data Transformation: Aggregation*
- *Customizing your Visualization*
- *Publishing your Visualization*

3.1 The Data

Data in Altair is built around the Pandas Dataframe. One of the defining characteristics of statistical visualization is that it begins with [tidy](#) Dataframes. For the purposes of this tutorial, we'll start by importing Pandas and creating a simple DataFrame to visualize, with a categorical variable in column a and a numerical variable in column b:

```
import pandas as pd
data = pd.DataFrame({'a': list('CCDDDEEE'),
                    'b': [2, 7, 4, 1, 2, 6, 8, 4, 7]})
```

[graph] When using Altair, datasets are most commonly provided as a Dataframe. As we will see, the labeled columns of the dataframe are an essential piece of plotting with Altair.

3.2 The Chart Object

The fundamental object in Altair is the `Chart`, which takes a dataframe as a single argument:

```
import altair as alt
chart = alt.Chart(data)
```

[graph] So far, we have defined the `Chart` object, but we have not yet told the chart to *do* anything with the data. That will come next.

3.3 Encodings and Marks

With this chart object in hand, we can now specify how we would like the data to be visualized. This is done via the `mark` attribute of the chart object, which is most conveniently accessed via the `Chart.mark_*` methods. For example, we can show the data as a point using `mark_point()`:

```
alt.Chart(data).mark_point()
```

[graph] Here the rendering consists of one point per row in the dataset, all plotted on top of each other, since we have not yet specified positions for these points.

To visually separate the points, we can map various *encoding channels*, or *channels* for short, to columns in the dataset. For example, we could *encode* the variable `a` of the data with the `x` channel, which represents the x-axis position of the points. This can be done straightforwardly via the `Chart.encode()` method:

```
alt.Chart(data).mark_point().encode(
    x='a',
)
```

[graph] The `encode()` method builds a key-value mapping between encoding channels (such as `x`, `y`, `color`, `shape`, `size`, etc.) to columns in the dataset, accessed by column name.

For pandas dataframes, Altair automatically determines the appropriate data type for the mapped column, which in this case is a *nominal* value, or an unordered categorical.

Though we've now separated the data by one attribute, we still have multiple points overlapping within each category. Let's further separate these by adding a `y` encoding channel, mapped to the `"b"` column:

```
alt.Chart(data).mark_point().encode(
    x='a',
    y='b'
)
```

[graph] The type of the data in the `"b"` column is again automatically-inferred by Altair, and this time is treated as a *quantitative* type (i.e. real-valued). Additionally, we see that grid lines and appropriate axis titles are automatically added as well.

3.4 Data Transformation: Aggregation

To allow for more flexibility in how data are visualized, Altair has a built-in syntax for *aggregation* of data. For example, we can compute the average of all values by specifying this aggregate within the column identifier:

```
alt.Chart(data).mark_point().encode(
    x='a',
    y='average(b)'
)
```

[graph] Now within each x-axis category, we see a single point reflecting the average of the values within that category.

Typically, aggregated values are not represented by point markings, but by bar markings. We can do this by replacing `mark_point()` with `mark_bar()`:

```
alt.Chart(data).mark_bar().encode(
    x='a',
```

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```
y='average(b)'
)
```

[graph] Because the categorical feature is mapped to the x-axis, the result is a vertical bar chart. To get a horizontal bar chart, all we need is to swap the x and y keywords:

```
alt.Chart(data).mark_bar().encode(
    y='a',
    x='average(b)'
)
```

[graph]

3.4.1 Aside: Examining the JSON Output

Recall that Altair's main purpose is to convert plot specifications to a JSON string that conforms to the Vega-Lite schema. It is instructive here to use the `to_json()` method to inspect the JSON specification that Altair is exporting and sending as JSON to Vega-Lite:

```
chart = alt.Chart(data).mark_bar().encode(
    x='a',
    y='average(b)',
)
print(chart.to_json())
```

[graph] Notice here that `encode(x='a')` has been expanded to a JSON structure with a `field` name, and a `type` for the data. The `encode(y='b')` has been expanded similarly and includes an `aggregate` field.

Altair's full shorthand syntax includes a way to specify the type of the column as well:

```
y = alt.Y('average(b):Q')
print(y.to_json())
```

[graph] This short-hand is equivalent to spelling-out the attributes by name:

```
y = alt.Y(field='b', type='quantitative', aggregate='average')
print(y.to_json())
```

[graph] This more verbose means of specifying channels can be used directly in Altair chart specifications, a fact that becomes useful when using some of the more advanced field configurations:

```
alt.Chart(data).mark_bar().encode(
    alt.Y('a', type='nominal'),
    alt.X('b', type='quantitative', aggregate='average')
)
```

[graph]

3.5 Customizing your Visualization

By default, Altair via Vega-Lite makes some choices about default properties of the visualization. Altair also provides an API to customize the look of the visualization. For example, we can specify the axis titles using the `axis` attribute of channel classes, and we can specify the color of the marking by setting the `color` keyword of the `Chart.mark_*` methods to any valid HTML color string:

```
alt.Chart(data).mark_bar(color='firebrick').encode(
    alt.Y('a', title='category'),
    alt.X('average(b)', title='avg(b) by category')
)
```

[graph]

3.6 Publishing your Visualization

Once you have visualized your data, perhaps you would like to publish it somewhere on the web. This can be done straightforwardly using the [Vega-Embed](#) Javascript package. A simple example of a stand-alone HTML document can be generated for any chart using the `Chart.save()` method:

```
chart = alt.Chart(data).mark_bar().encode(
    x='a',
    y='average(b)',
)
chart.save('chart.html')
```

The basic HTML template produces output that looks like this, where the JSON specification for your plot produced by `Chart.to_json()` should be stored in the `spec` Javascript variable:

```
<!DOCTYPE html>
<html>
  <head>
    <script src="https://cdn.jsdelivr.net/npm/vega@3"></script>
    <script src="https://cdn.jsdelivr.net/npm/vega-lite@2"></script>
    <script src="https://cdn.jsdelivr.net/npm/vega-embed@3"></script>
  </head>
  <body>
    <div id="vis"></div>
    <script type="text/javascript">
      var spec = {}; /* JSON dump of your chart's spec */
      var opt = {"renderer": "canvas", "actions": false}; /* Options for the embedding_
→ */
      vegaEmbed("#vis", spec, opt);
    </script>
  </body>
</html>
```

The `save()` method provides a convenient way to save such HTML output to file. For more information on embedding Altair/Vega-Lite, see the documentation of the [Vega-Embed](#) project.

BASIC STATISTICAL VISUALIZATION

(This tutorial is adapted from [Vega-Lite's documentation](#))

This tutorial will guide you through the basic process of creating visualizations in Altair. First, you will need to make sure you have the Altair package and its dependencies installed (see [installation](#)) and make sure you understand how altair plots are displayed (see [displaying-charts](#)). This tutorial will assume you are working within a Jupyter notebook user interface, so that plots are automatically rendered.

Here is the outline of this basic tutorial:

- *The Data*
- *Encodings and Marks*
- *Data Transformation: Aggregation*
- *Customizing your Visualization*
- *Publishing your Visualization*

4.1 The Data

Data in Altair is built around the Pandas Dataframe. One of the defining characteristics of statistical visualization is that it begins with [tidy](#) Dataframes. For the purposes of this tutorial, we'll start by importing Pandas and creating a simple DataFrame to visualize, with a categorical variable in column a and a numerical variable in column b:

```
import pandas as pd
data = pd.DataFrame({'a': list('CCDDDEEE'),
                    'b': [2, 7, 4, 1, 2, 6, 8, 4, 7]})
```

[graph] When using Altair, datasets are most commonly provided as a Dataframe. As we will see, the labeled columns of the dataframe are an essential piece of plotting with Altair.

4.2 The Chart Object

The fundamental object in Altair is the `Chart`, which takes a dataframe as a single argument:

```
import altair as alt
chart = alt.Chart(data)
```

[graph] So far, we have defined the `Chart` object, but we have not yet told the chart to *do* anything with the data. That will come next.

4.3 Encodings and Marks

With this chart object in hand, we can now specify how we would like the data to be visualized. This is done via the `mark` attribute of the chart object, which is most conveniently accessed via the `Chart.mark_*` methods. For example, we can show the data as a point using `mark_point()`:

```
alt.Chart(data).mark_point()
```

[graph] Here the rendering consists of one point per row in the dataset, all plotted on top of each other, since we have not yet specified positions for these points.

To visually separate the points, we can map various *encoding channels*, or *channels* for short, to columns in the dataset. For example, we could *encode* the variable `a` of the data with the `x` channel, which represents the x-axis position of the points. This can be done straightforwardly via the `Chart.encode()` method:

```
alt.Chart(data).mark_point().encode(
    x='a',
)
```

[graph] The `encode()` method builds a key-value mapping between encoding channels (such as `x`, `y`, `color`, `shape`, `size`, etc.) to columns in the dataset, accessed by column name.

For pandas dataframes, Altair automatically determines the appropriate data type for the mapped column, which in this case is a *nominal* value, or an unordered categorical.

Though we've now separated the data by one attribute, we still have multiple points overlapping within each category. Let's further separate these by adding a `y` encoding channel, mapped to the `"b"` column:

```
alt.Chart(data).mark_point().encode(
    x='a',
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[graph] The type of the data in the `"b"` column is again automatically-inferred by Altair, and this time is treated as a *quantitative* type (i.e. real-valued). Additionally, we see that grid lines and appropriate axis titles are automatically added as well.

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To allow for more flexibility in how data are visualized, Altair has a built-in syntax for *aggregation* of data. For example, we can compute the average of all values by specifying this aggregate within the column identifier:

```
alt.Chart(data).mark_point().encode(
    x='a',
    y='average(b)'
)
```

[graph] Now within each x-axis category, we see a single point reflecting the average of the values within that category.

Typically, aggregated values are not represented by point markings, but by bar markings. We can do this by replacing `mark_point()` with `mark_bar()`:

```
alt.Chart(data).mark_bar().encode(
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[graph] Because the categorical feature is mapped to the x-axis, the result is a vertical bar chart. To get a horizontal bar chart, all we need is to swap the x and y keywords:

```
alt.Chart(data).mark_bar().encode(
    y='a',
    x='average(b)'
)
```

[graph]

4.4.1 Aside: Examining the JSON Output

Recall that Altair's main purpose is to convert plot specifications to a JSON string that conforms to the Vega-Lite schema. It is instructive here to use the `to_json()` method to inspect the JSON specification that Altair is exporting and sending as JSON to Vega-Lite:

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    x='a',
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)
print(chart.to_json())
```

[graph] Notice here that `encode(x='a')` has been expanded to a JSON structure with a `field` name, and a `type` for the data. The `encode(y='b')` has been expanded similarly and includes an `aggregate` field.

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```
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print(y.to_json())
```

[graph] This short-hand is equivalent to spelling-out the attributes by name:

```
y = alt.Y(field='b', type='quantitative', aggregate='average')
print(y.to_json())
```

[graph] This more verbose means of specifying channels can be used directly in Altair chart specifications, a fact that becomes useful when using some of the more advanced field configurations:

```
alt.Chart(data).mark_bar().encode(
    alt.Y('a', type='nominal'),
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)
```

[graph]

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By default, Altair via Vega-Lite makes some choices about default properties of the visualization. Altair also provides an API to customize the look of the visualization. For example, we can specify the axis titles using the `axis` attribute of channel classes, and we can specify the color of the marking by setting the `color` keyword of the `Chart.mark_*` methods to any valid HTML color string:

```
alt.Chart(data).mark_bar(color='firebrick').encode(
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)
```

[graph]

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The basic HTML template produces output that looks like this, where the JSON specification for your plot produced by `Chart.to_json()` should be stored in the `spec` Javascript variable:

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    <script src="https://cdn.jsdelivr.net/npm/vega-lite@2"></script>
    <script src="https://cdn.jsdelivr.net/npm/vega-embed@3"></script>
  </head>
  <body>
    <div id="vis"></div>
    <script type="text/javascript">
      var spec = {}; /* JSON dump of your chart's spec */
      var opt = {"renderer": "canvas", "actions": false}; /* Options for the embedding_
→ */
      vegaEmbed("#vis", spec, opt);
    </script>
  </body>
</html>
```

The `save()` method provides a convenient way to save such HTML output to file. For more information on embedding Altair/Vega-Lite, see the documentation of the [Vega-Embed](#) project.

BUG REPORTS & QUESTIONS

SDG is Apache-licensed and the source is available on [GitHub](#). If any questions or issues come up as you use Altair, please get in touch via [Git Issues](#).

INDEXES Y TABLES

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