

Member Growth Tiles Calculation - Readme

Readme

🔧 Eliminate Bottom % Individuals: 10

What this content is about ?

This project will take any dataset with at least three columns : a date T, a metric M (sum agg) and a dimension D with numerous member values. The project will calculate growth value % of the Metric M for the whole timespan of T, for every single value of D. After this, it will allocate each value of D into a growth quintile. That is, group the highest growth D members in top growth tile, the lowest growth D members in bottom growth tile, and so on into 5 groups of equivalent number of D individuals.

The result of that analysis is to rapidly identify within all the values of D, which ones are the top, medium and bottom performers over time.

The first canvas shows the number of D values per tile and their average behavior over time with the metric M. The second canvas allows to see detailed values of D individuals for each tile, the third tab charts all D individuals sorted by growth, with an indication of the M value for each member. That third tab allows to identify if high growth rate members are also high value members or not.

A cross canvas filter at the top allows to eliminate the Bottom % individuals from the analysis : if your data has lots of members with very low values, you may be interested in not including these for respective % growth calculation. Just enable this filter and set the % value to suit your need.

Three tabs are repeated Yearly, Quarterly, and Monthly. Depending on your data time span and time density, use one or another. If your data covers 10 years with one value per month, use Yearly. If your data covers 6 months with several values per day, use Monthly, etc. The calculations and analysis are identical.

How to use it with your own data ?

Member Growth Tiles Calculation - Yearly

Yearly

Eliminate Bottom % Individuals: 10

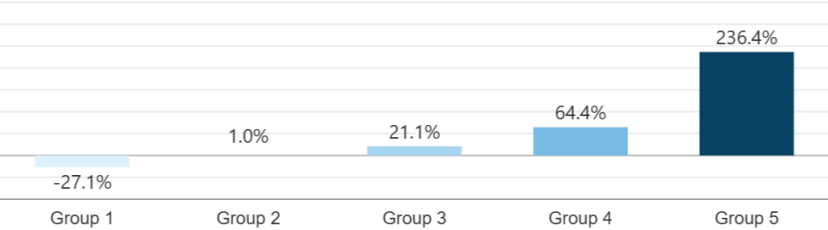
Count

176

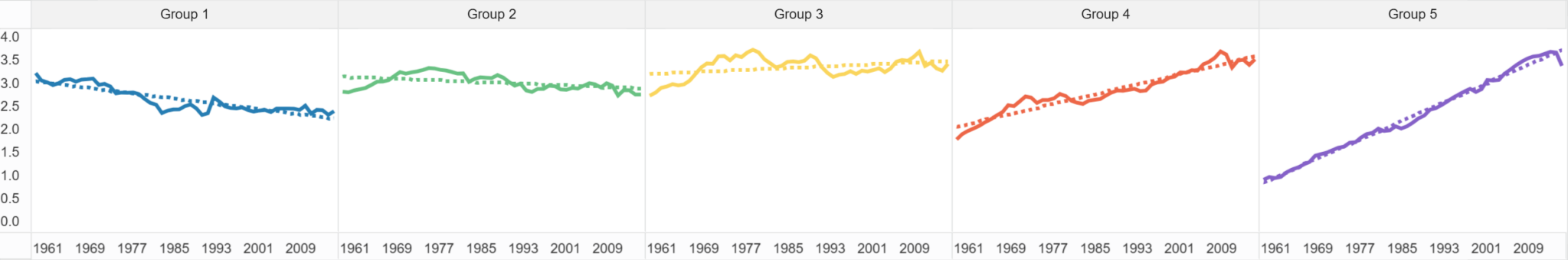
Growth Details by Group

	Count	Yr Start Value	Yr End Value	Yr Growth %
Group 1	35	3.13	2.28	-27.1%
Group 2	35	2.78	2.81	1.0%
Group 3	35	2.60	3.14	21.1%
Group 4	35	2.04	3.35	64.4%
Group 5	36	1.04	3.49	236.4%

Growth % by Group



Yearly Value Trend

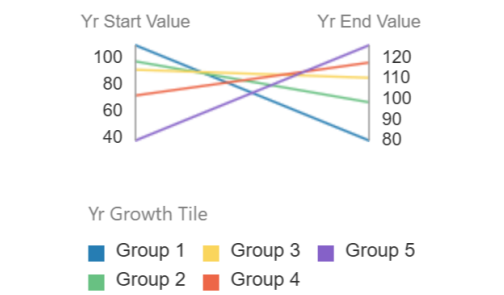


Member Growth Tiles Calculation - Yr Details

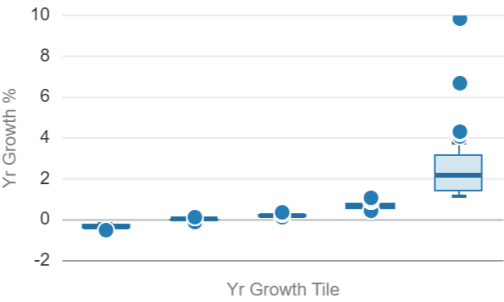
Yr Details

Eliminate Bottom % Individuals: 10

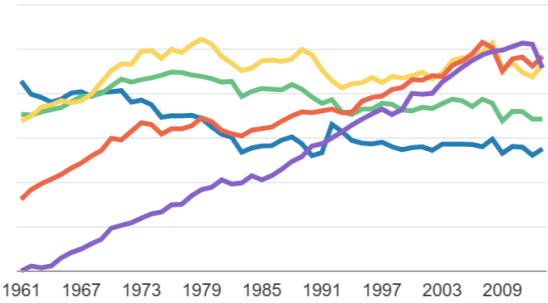
Growth Details by Group



Growth % Boxplot by Group



Growth % by Group



Growth Details by Group

	Count	Yr Start Value	Yr End Value	Yr Growth %
Group 1	35	3.13	2.28	-0.27
Group 2	35	2.78	2.81	0.01
Group 3	35	2.60	3.14	0.21
Group 4	35	2.04	3.35	0.64
Group 5	36	1.04	3.49	2.36
Grand Total	176	2.31	3.02	0.31

Growth Details by Individual

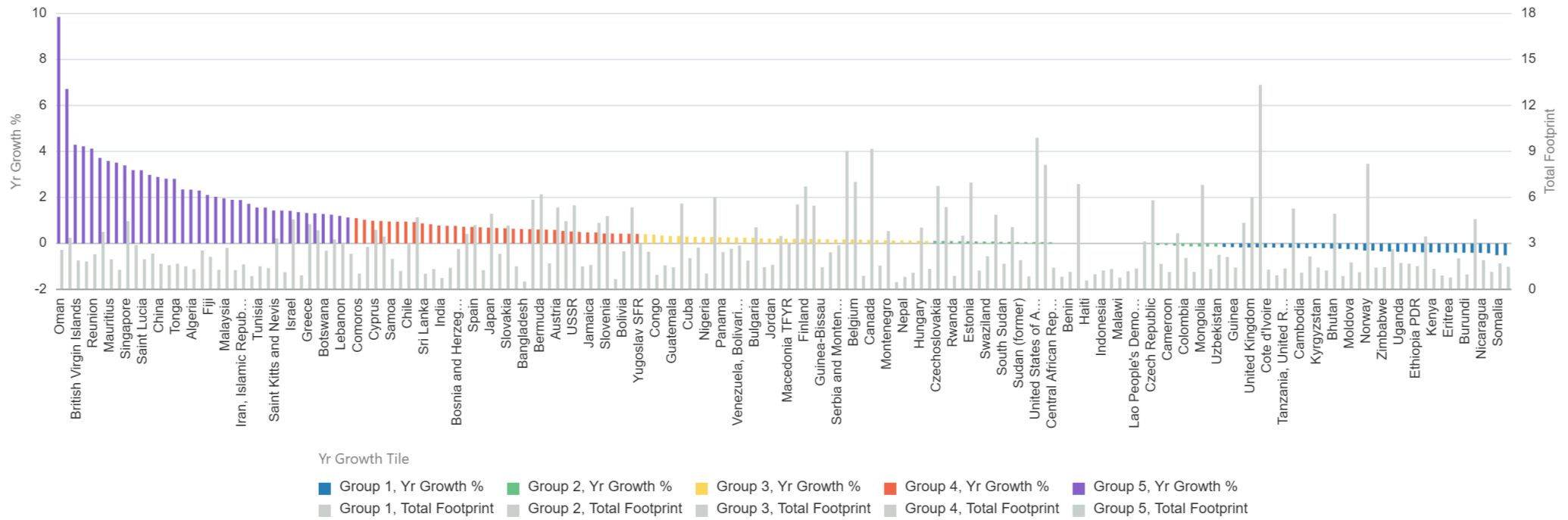
			Yr Start Value	Yr End Value	▲ Yr Growth %
Group 1	-0.51	Madagascar	1.95	0.95	-0.51
	-0.51	Somalia	2.54	1.24	-0.51
	-0.42	Zambia	1.68	0.97	-0.42
	-0.41	Nicaragua	2.43	1.43	-0.41
	-0.41	Uruguay	4.55	2.70	-0.41
	-0.40	Burundi	1.06	0.63	-0.40
	-0.40	Honduras	2.83	1.70	-0.40
	-0.40	Eritrea	0.84	0.50	-0.40
	-0.39	Tajikistan	1.51	0.92	-0.39
	-0.39	Kenya	1.68	1.03	-0.39
	-0.38	Ukraine	5.25	3.24	-0.38
	-0.37	Ethiopia PDR	1.91	1.20	-0.37
	-0.37	Chad	2.17	1.37	-0.37
	-0.36	Uganda	1.91	1.22	-0.36
	-0.35	Mauritania	3.60	2.34	-0.35
	-0.35	Zimbabwe	1.75	1.14	-0.35
	-0.31	Senegal	1.60	1.11	-0.31
	-0.31	Norway	8.35	5.76	-0.31

Member Growth Tiles Calculation - Yr List

Yr List

Eliminate Bottom % Individuals: 10

Value and Growth % by Individual



Member Growth Tiles Calculation - Quarterly

Quarterly

Eliminate Bottom % Individuals: 10

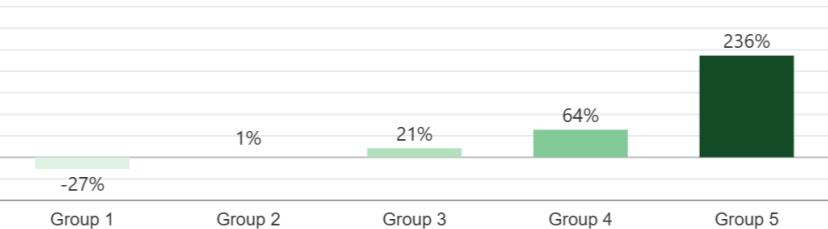
Count

176

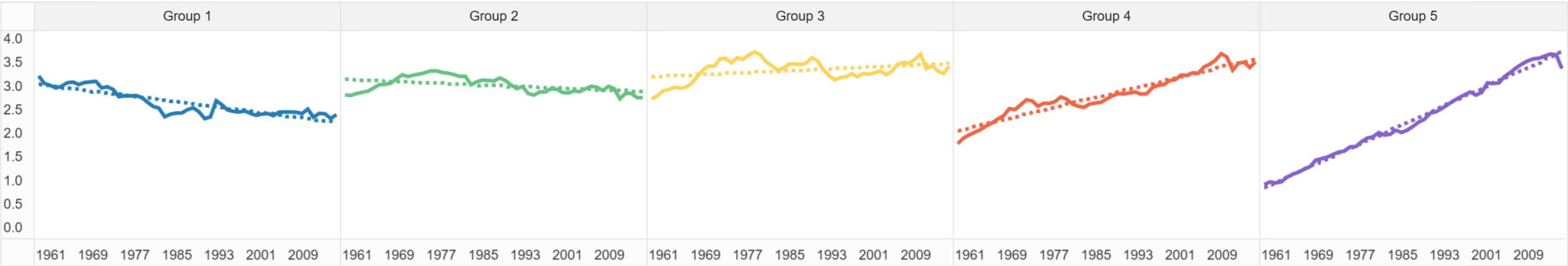
Growth Details by Group

	Count	Qtr Start Value	Qtr End Value	Qtr Growth %
Group 1	35	3.13	2.28	-27.1%
Group 2	35	2.78	2.81	1.0%
Group 3	35	2.60	3.14	21.1%
Group 4	35	2.04	3.35	64.4%
Group 5	36	1.04	3.49	236.4%

Growth % by Group



Quarterly Value Trend

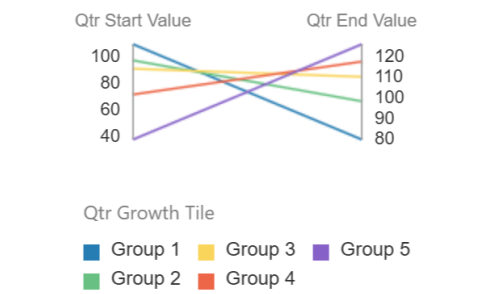


Member Growth Tiles Calculation - Qtr Details

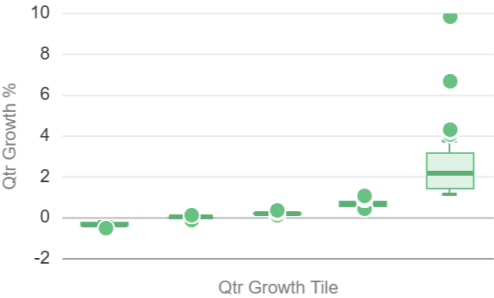
Qtr Details

Eliminate Bottom % Individuals: 10

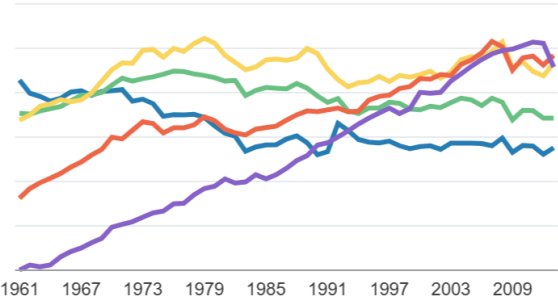
Growth Details by Group



Growth % Boxplot by Group



Growth % by Group



Growth Details by Group

	Count	Qtr Start Value	Qtr End Value	Qtr Growth %
Group 1	35	3.13	2.28	-27.1%
Group 2	35	2.78	2.81	1.0%
Group 3	35	2.60	3.14	21.1%
Group 4	35	2.04	3.35	64.4%
Group 5	36	1.04	3.49	236.4%
Grand Total	176	2.31	3.02	30.7%

Growth Details by Individual

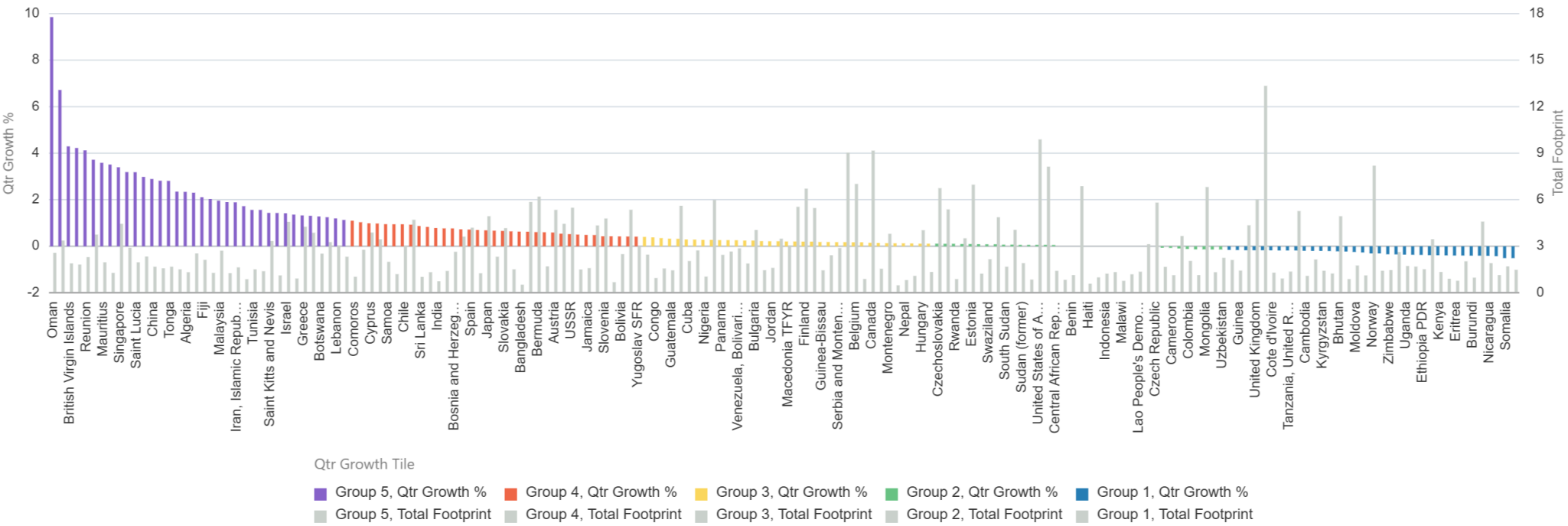
Qtr Growth Tile: All			Qtr Start Value	Qtr End Value	Qtr Growth %
Group 1	-0.51	Madagascar	1.95	0.95	-51.1%
	-0.51	Somalia	2.54	1.24	-51.1%
	-0.42	Zambia	1.68	0.97	-42.4%
	-0.41	Nicaragua	2.43	1.43	-40.9%
	-0.41	Uruguay	4.55	2.70	-40.6%
	-0.40	Burundi	1.06	0.63	-40.4%
	-0.40	Honduras	2.83	1.70	-39.8%
	-0.40	Eritrea	0.84	0.50	-39.8%
	-0.39	Tajikistan	1.51	0.92	-39.4%
	-0.39	Kenya	1.68	1.03	-38.9%
	-0.38	Ukraine	5.25	3.24	-38.3%
	-0.37	Ethiopia PDR	1.91	1.20	-37.3%
	-0.37	Chad	2.17	1.37	-36.6%
	-0.36	Uganda	1.91	1.22	-36.1%
	-0.35	Mauritania	3.60	2.34	-35.2%
	-0.35	Zimbabwe	1.75	1.14	-34.5%

Member Growth Tiles Calculation - Qtr List

Qtr List

Eliminate Bottom % Individuals: 10

Value and Growth % by Individual



Member Growth Tiles Calculation - Monthly

Monthly

Eliminate Bottom % Individuals: 10

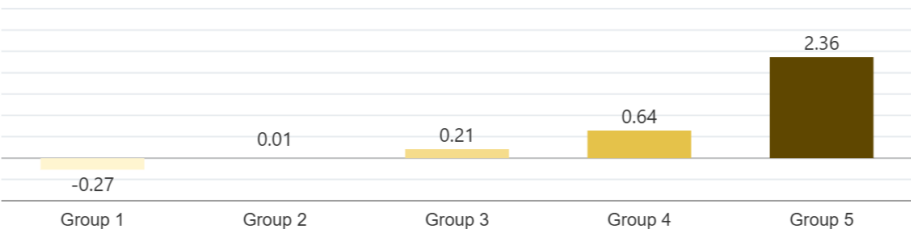
Count

176

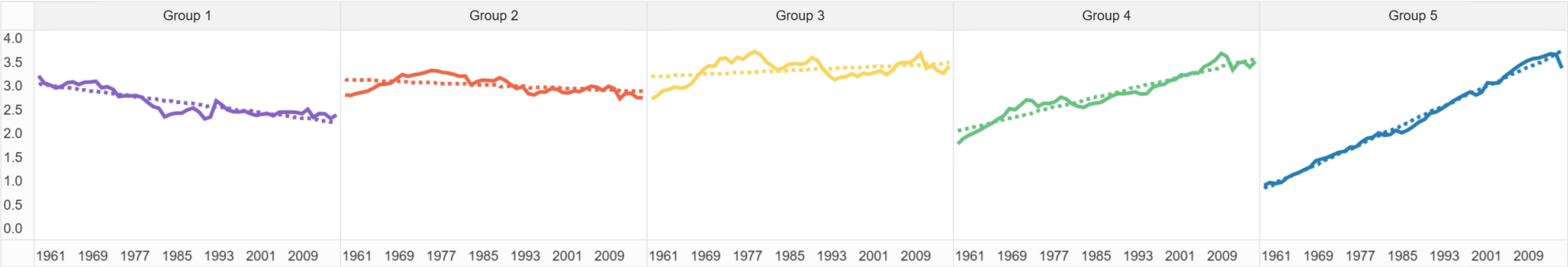
Growth Details by Group

	Count	Mth Start Value	Mth End Value	Mth Growth %
Group 1	35	3.13	2.28	-0.27
Group 2	35	2.78	2.81	0.01
Group 3	35	2.60	3.14	0.21
Group 4	35	2.04	3.35	0.64
Group 5	36	1.04	3.49	2.36

Growth % by Group



Quarterly Value Trend

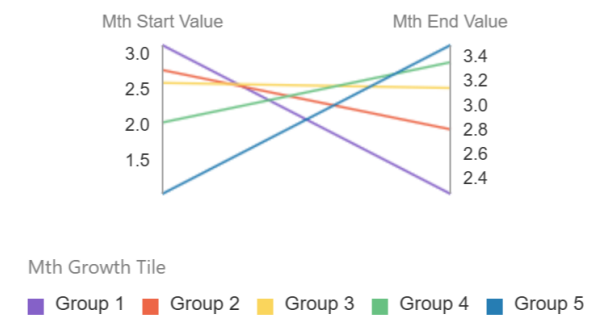


Member Growth Tiles Calculation - Mth Details

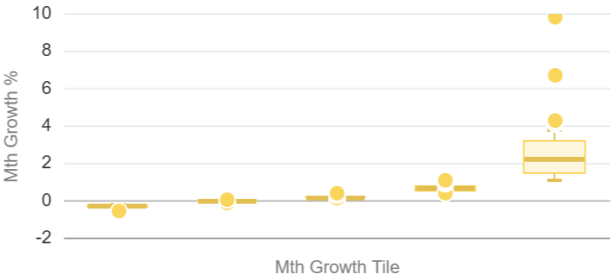
Mth Details

Eliminate Bottom % Individuals: 10

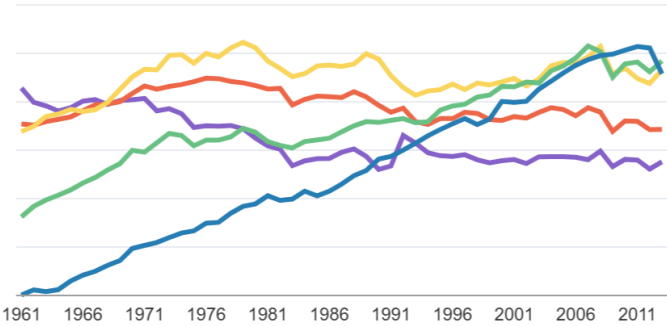
Growth Details by Group



Growth % Boxplot by Group



Growth % by Group



Growth Details by Group

	Count	Mth Start Value	Mth End Value	Mth Growth %
Group 1	35	3.13	2.28	-0.27
Group 2	35	2.78	2.81	0.01
Group 3	35	2.60	3.14	0.21
Group 4	35	2.04	3.35	0.64
Group 5	36	1.04	3.49	2.36
Grand Total	176	2.31	3.02	0.31

Growth Details by Individual

Mth Growth Tile: All			Mth Start Value	Mth End Value	Mth Growth %
Group 1	-0.23	Afghanistan	1.16	0.89	-0.23
	-0.20	Azerbaijan	2.89	2.30	-0.20
	-0.17	Belarus	5.56	4.63	-0.17
	-0.22	Bhutan	5.91	4.61	-0.22
	-0.40	Burundi	1.06	0.63	-0.40
	-0.20	Cambodia	1.51	1.21	-0.20
	-0.37	Chad	2.17	1.37	-0.37
	-0.18	Congo, Democratic Republic of	0.92	0.75	-0.18
	-0.18	Cote d'Ivoire	1.48	1.22	-0.18
	-0.40	Eritrea	0.84	0.50	-0.40
	-0.37	Ethiopia PDR	1.91	1.20	-0.37
	-0.16	Guinea	1.64	1.37	-0.16
	-0.40	Honduras	2.83	1.70	-0.40
	-0.39	Kenya	1.68	1.03	-0.39
	-0.20	Kyrgyzstan	2.30	1.83	-0.20

Member Growth Tiles Calculation - Mth List

Mth List

Eliminate Bottom % Individuals: 10

Value and Growth % by Individual

