

# Hans Rosling

Fanqi Dai  
Data Visualization  
21/SP-CDGD-414-01

GAPMINDER

# **What is Gapminder?**

Gapminder is an independent educational non-profit fighting global misconceptions.

# **Why Gapminder?**

The mission is to fight devastating ignorance with a fact-based worldview everyone can understand.

# **Development Issues + Data**

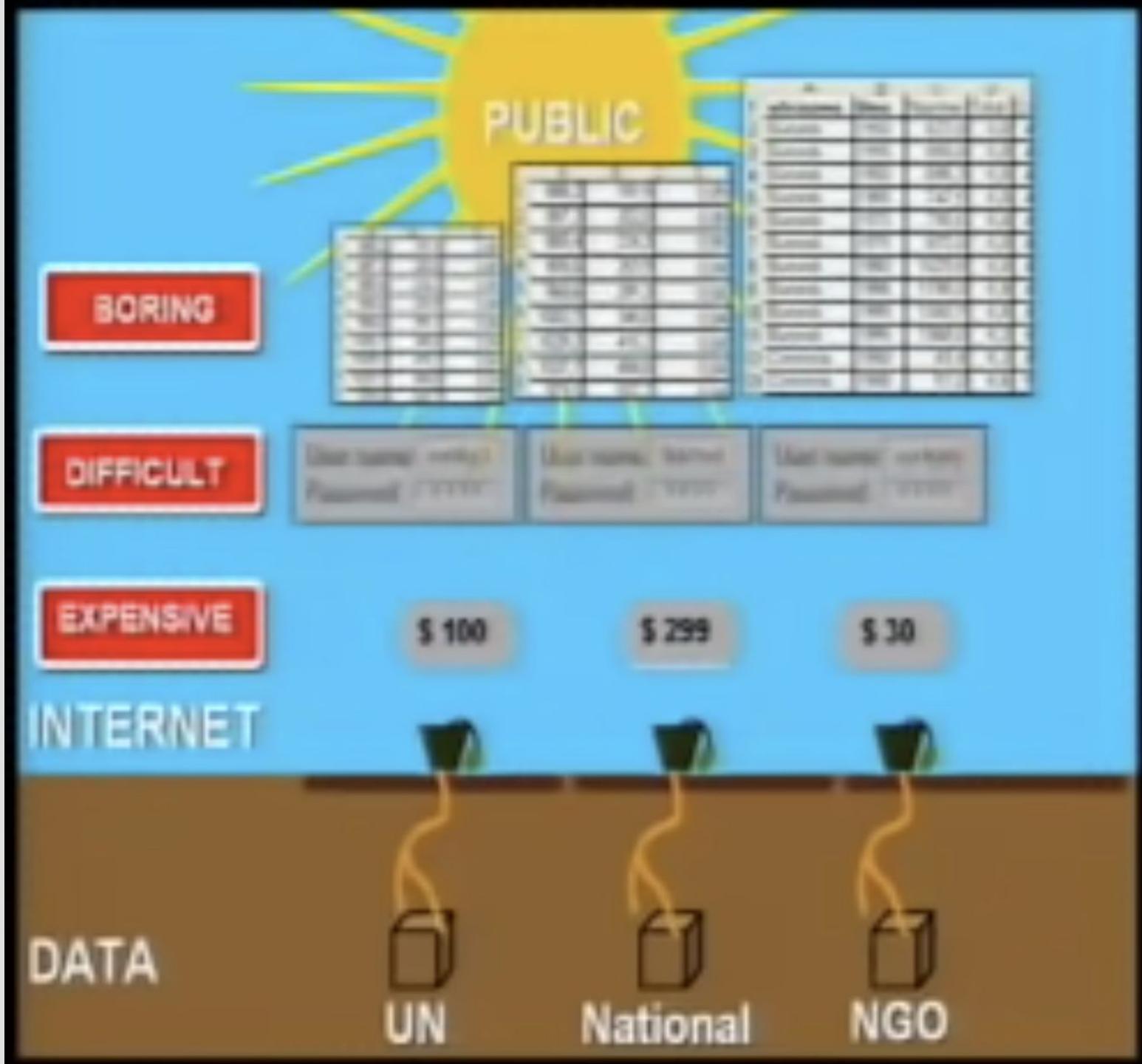
Identifies systematic misconceptions about important global trends and proportions and uses reliable data to develop easy to understand teaching materials to rid people of their misconceptions.

**... keep upgrading  
your worldview**  
as the world keeps  
changing,



**AND ENJOY  
a fact-based worldview**

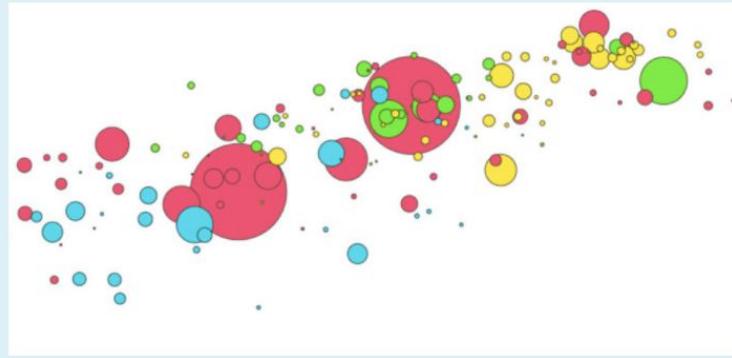






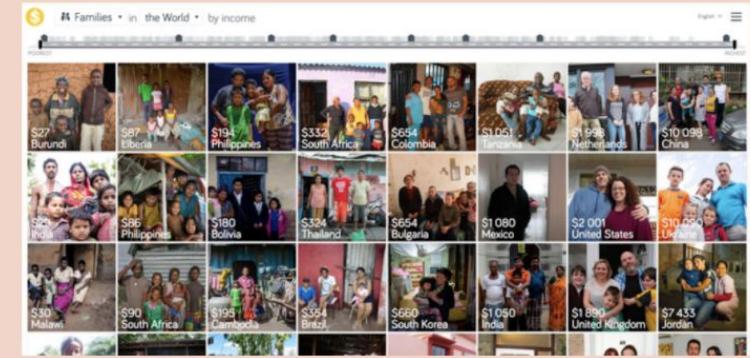
Rid yourself of the most common global misconceptions and get your Upgraded Worldview Certificate

**Find your misconceptions**



Get the proportions right and realize the macrotrends that will shape the future.

**Understand a changing world**



Watch everyday life in hundreds of homes on all income levels across the world, to counteract the media's skewed selection of images of other places.

**See the reality behind the data**

# You are probably wrong about



Female  
bosses



Global  
warming



Plastic in  
oceans



Suicide trend



Import taxes



Poor vs. poor



We have tested thousands of people and they were systematically wrong about all this.

Upgrade your worldview

## How much of the excess heat from global warming is captured in the oceans?

Around 90%

Around 10%

Around 50%

Around 90%

You are right



But 90% of people answer wrongly. Most people are unaware that most global warming is hiding in the seas. As long as they think global warming is all about air temperature, they won't realize the size of the problem.

More ▾

Next question

Share question

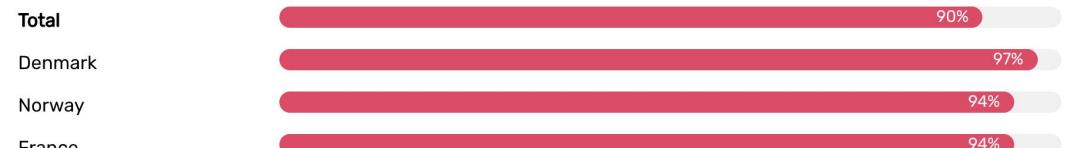
#### Correct answer

More than 90% of global warming is captured in oceans.

[Source: IPCC](#)

#### Survey Results

Of the people we have tested, **90%** got this question wrong.



[More ▾](#)

#### About this misconception

Many of us look for global warming in our local weather but, so far, the weather changes that are caused by climate change are spread unevenly over the planet and you probably haven't experienced much of it first hand. A lot of heat is actually trapped inside the atmosphere every day, but you can't detect it by putting your finger in the air, because less than 7% of the excess heat stays in the air. Of the earth's total surface, 71% is covered by oceans and that's where 93% of the heat sneaks away. Over the last 50 years, the average temperature in the upper 75 meters of the oceans has increased by half a degree Celsius. That might sound like a small change, but the amount of energy needed to heat up that amount of water would be devastating if it had stayed in

! You were wrong

just like 92% of people

## A world record, ignored

During the past 40 years, the drop in the extreme poverty rate was the fastest ever. Very few noticed. Probably because global inequality became wider than ever.

[Show less ^](#)

### Correct answer

Today, around 10% of the world's population live in extreme poverty.

[Sources: World Bank & Gapminder](#)

### Survey Results

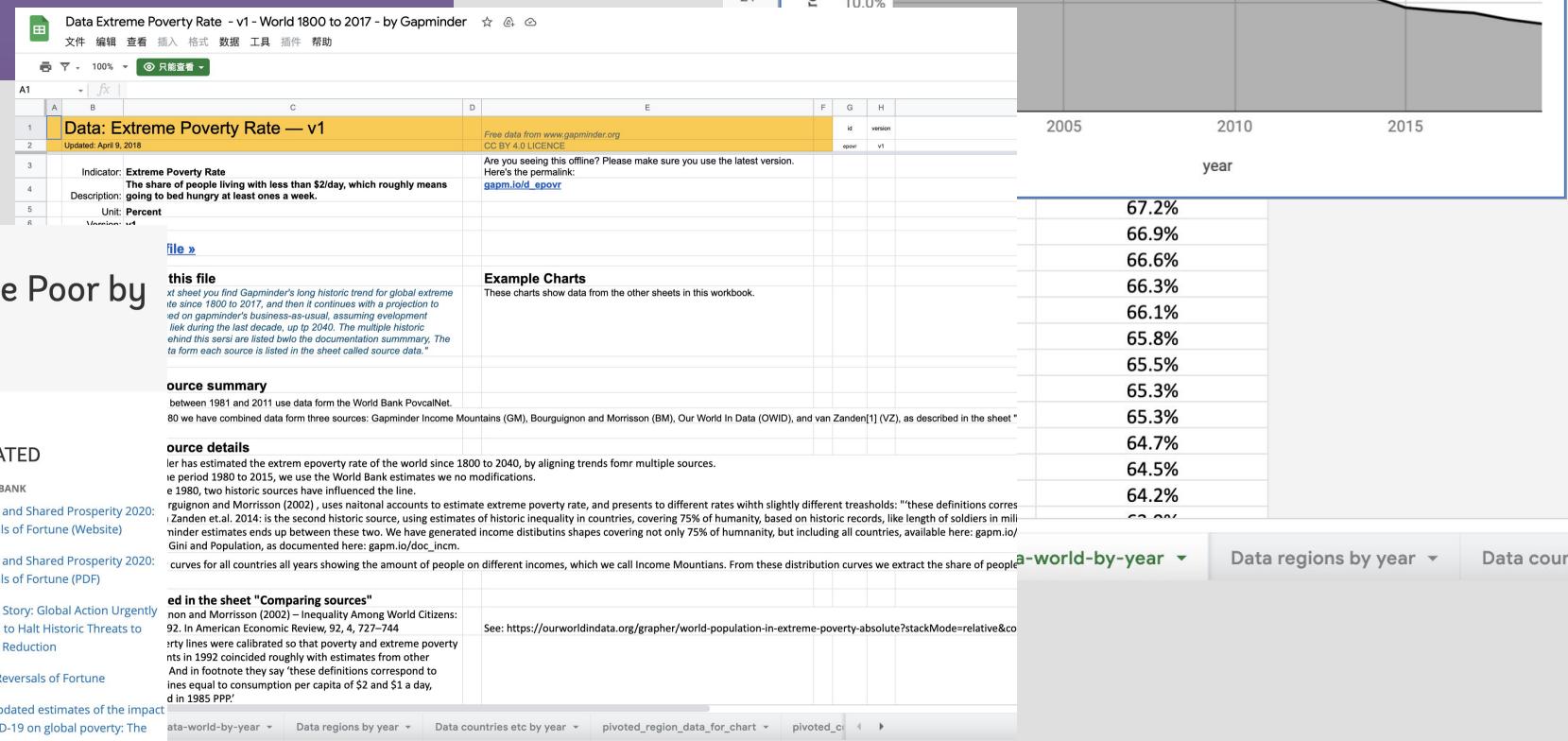
Of the people we have tested, **92%** got this question wrong.

United Kingdom

92%

Extreme poverty is defined as living on less than \$1.90 USD per day. Estimates of extreme poverty are never exact, because the settings where extreme poverty exists don't allow for exact measures. The data needed to estimate the extreme poverty rate is also lagging a few years. Read more [here](#), and check our [calculations](#), as well as [World Bank](#). Despite that unreliability, the trends are still clear and our "correct" answer is still far closer to being right than the other options, which we deliberately make very different.

[1] [World Bank and Gapminder estimates](#)  
[2] [World Bank - "COVID-19 to Add as Many as 150 Million Extreme Poor by 2021"](#)  
[3] [World Bank Open Data time trend of extreme poverty](#)



PRESS RELEASE | OCTOBER 7, 2020

## COVID-19 to Add as Many as 150 Million Extreme Poor by 2021

Eight out of 10 'new poor' will be in middle-income countries

**WASHINGTON, Oct. 7, 2020** — Global extreme poverty is expected to rise in 2020 for the first time in over 20 years as the disruption of the COVID-19 pandemic compounds the forces of conflict and climate change, which were already slowing poverty reduction progress, the World Bank said today.

The COVID-19 pandemic is estimated to push an additional 88 million to 115 million people into extreme poverty this year, with the total rising to as many as 150 million by 2021, depending on the severity of the economic contraction. Extreme poverty, defined as living on less than \$1.90 a day, is likely to affect between 9.1% and 9.4% of the world's population in 2020, according to the biennial *Poverty and Shared Prosperity Report*. This would represent a regression to the rate of 9.2% in 2017. Had the pandemic not

### RELATED

WORLD BANK

Poverty and Shared Prosperity 2020:

Reversals of Fortune (Website)

Poverty and Shared Prosperity 2020:

Reversals of Fortune (PDF)

Feature Story: Global Action Urgently

Needed to Halt Historic Threats to

Poverty Reduction

Video: Reversals of Fortune

Blog: Updated estimates of the impact

of COVID-19 on global poverty: The

effect of new data

## About this misconception

Worldwide, extreme poverty has declined steadily since the 1980s, but the fact that hundreds of millions of people still have to survive on less than \$2 a day means we aren't in the streets celebrating this as a complete success.

### Frequent questions

#### What has happened over time?



#### What is extreme poverty?



It is living on less than \$2 a day. It means having too little money to meet the basic needs that most of us take for granted, such as food, water, electricity and basic healthcare.

#### Where do the extremely poor live?



#### Will Corona impact the share of extremely poor?



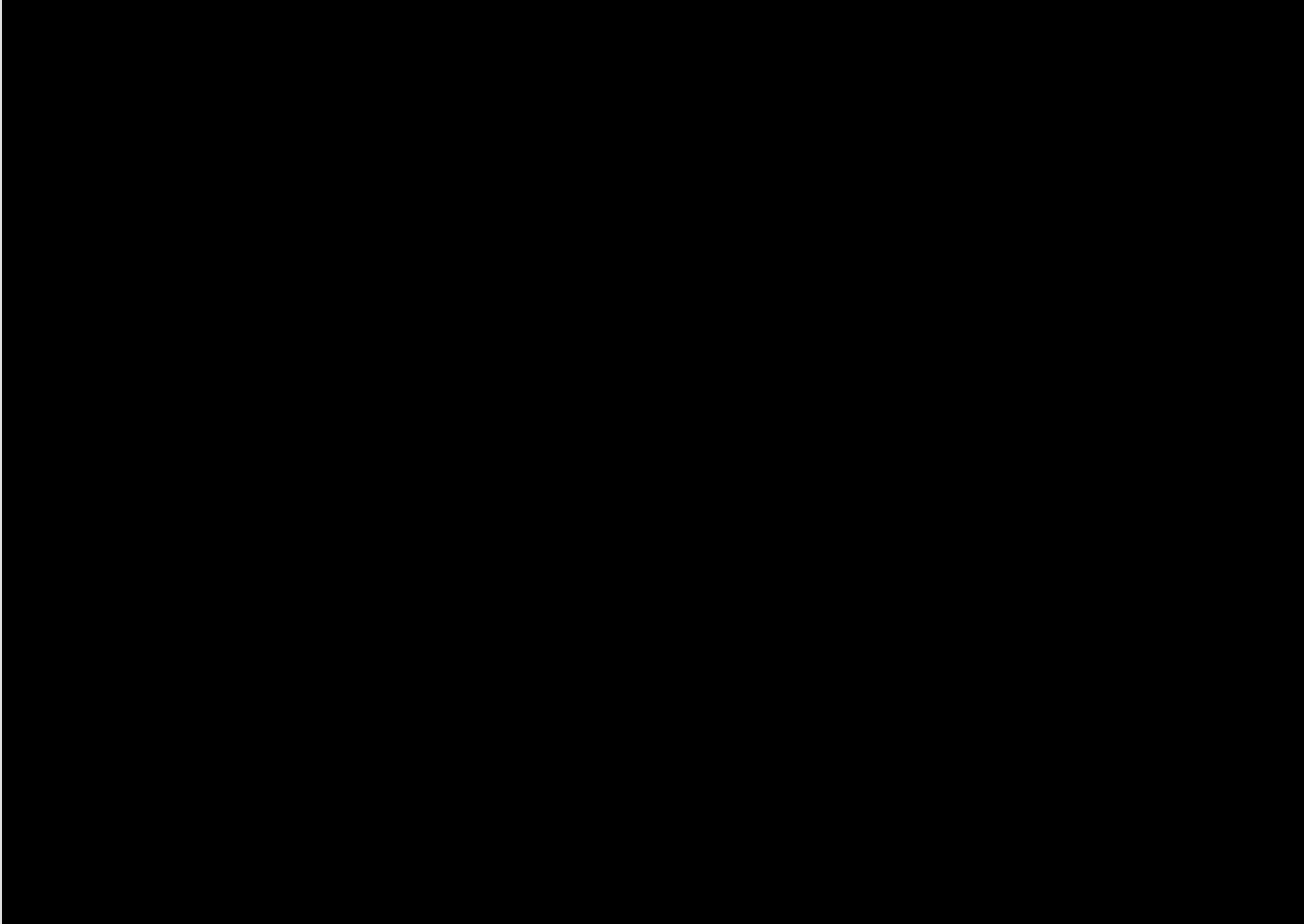
#### Where can I learn more?

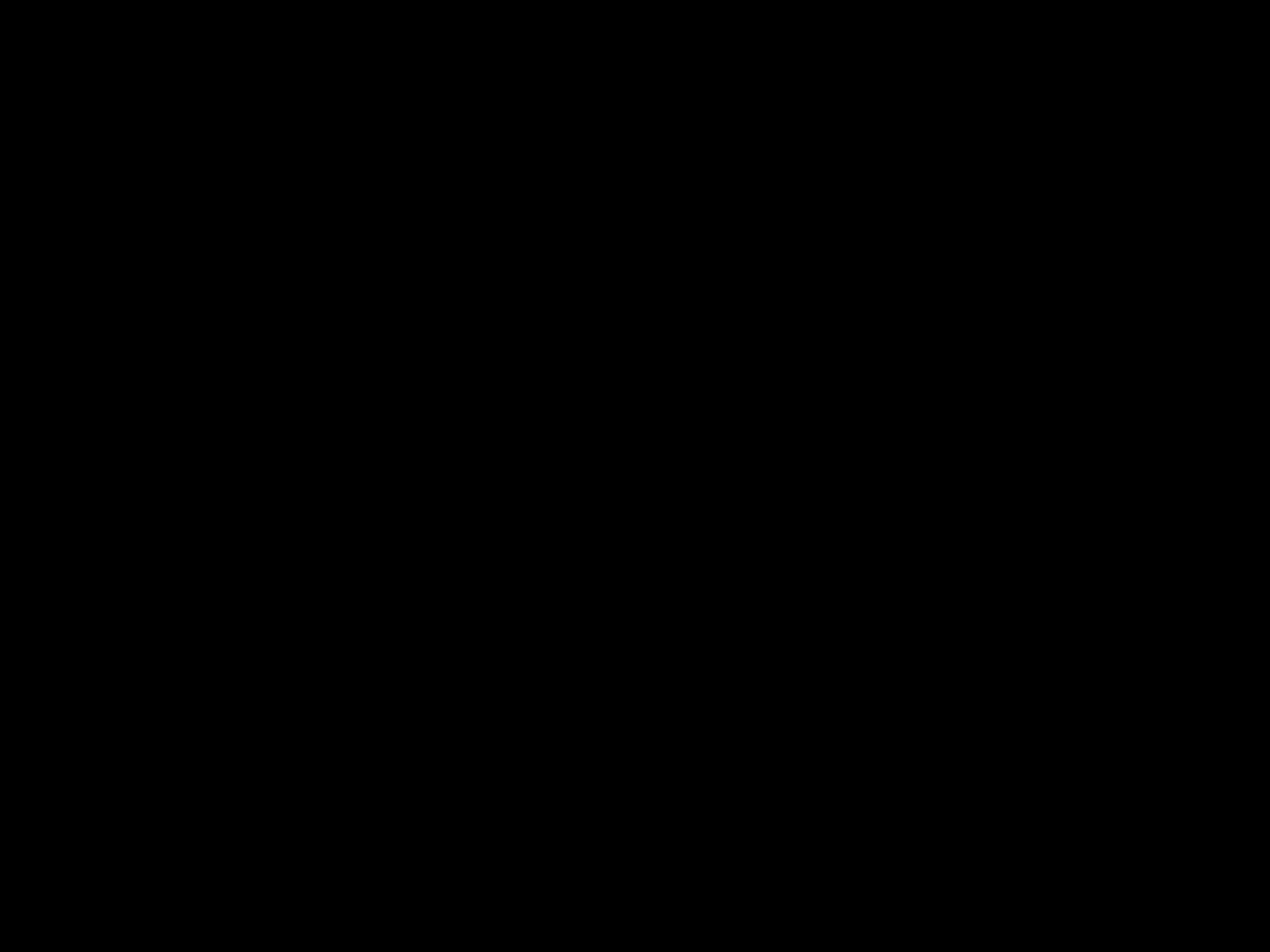


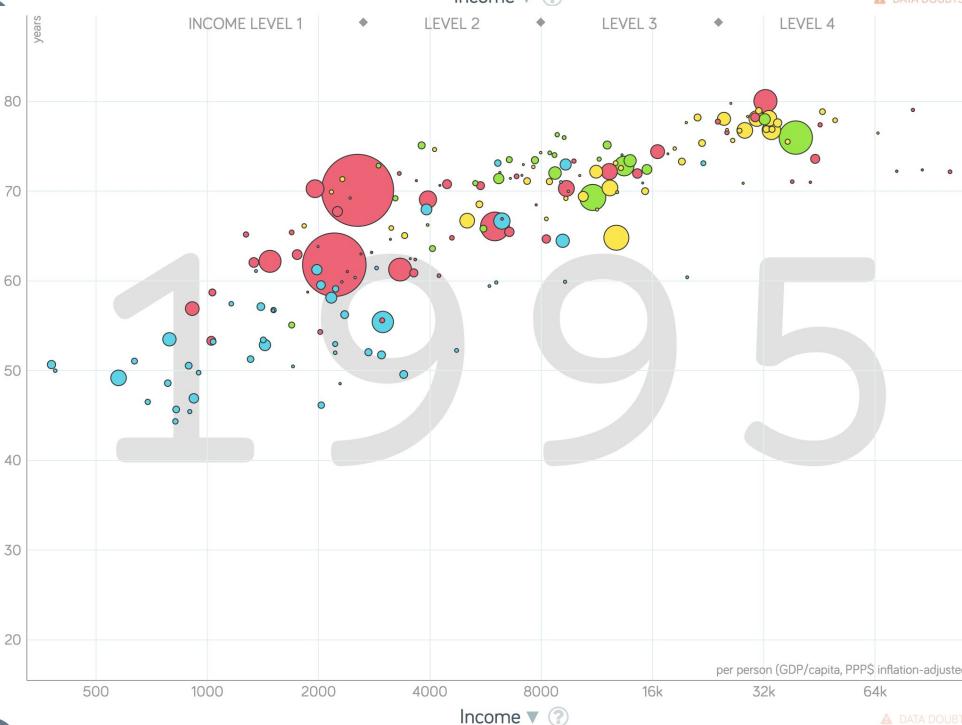
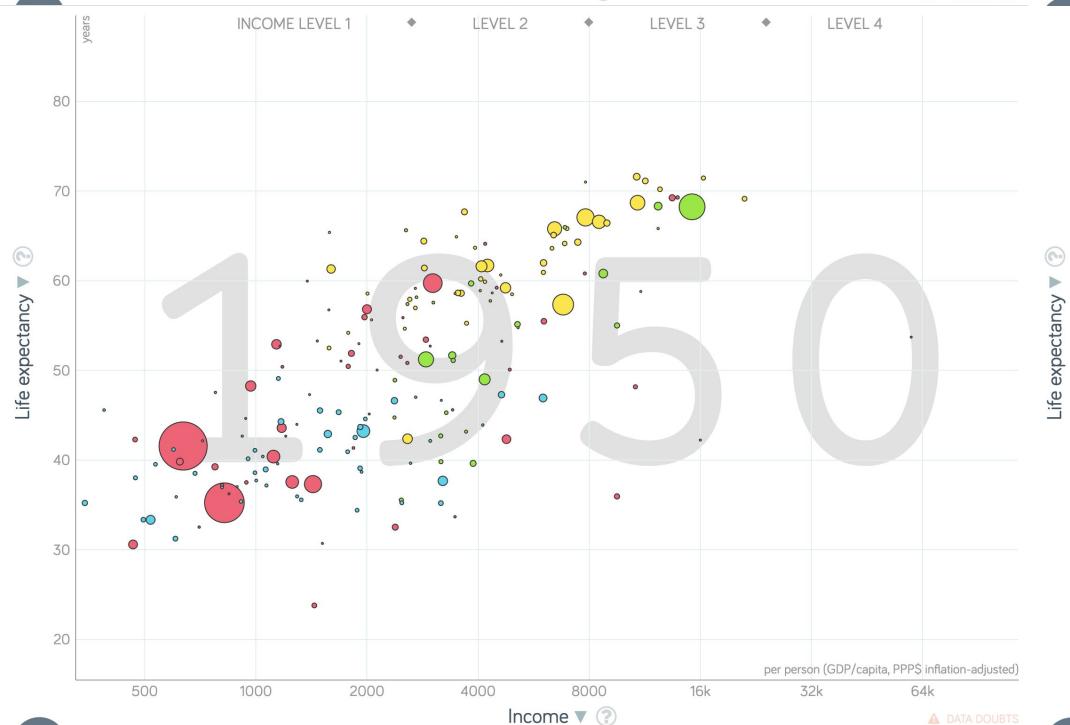
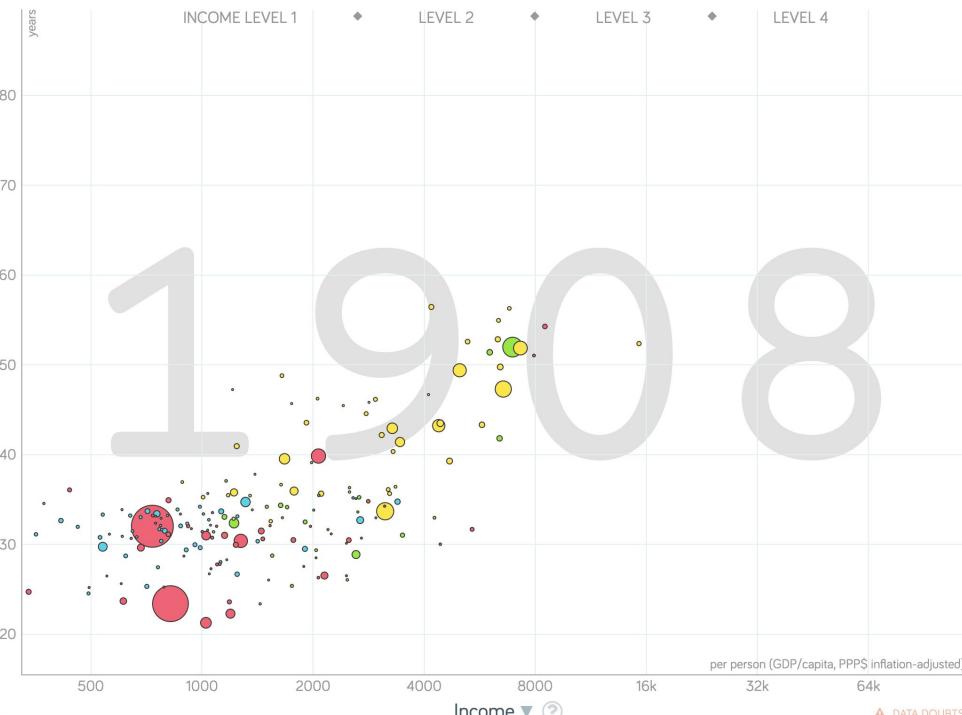
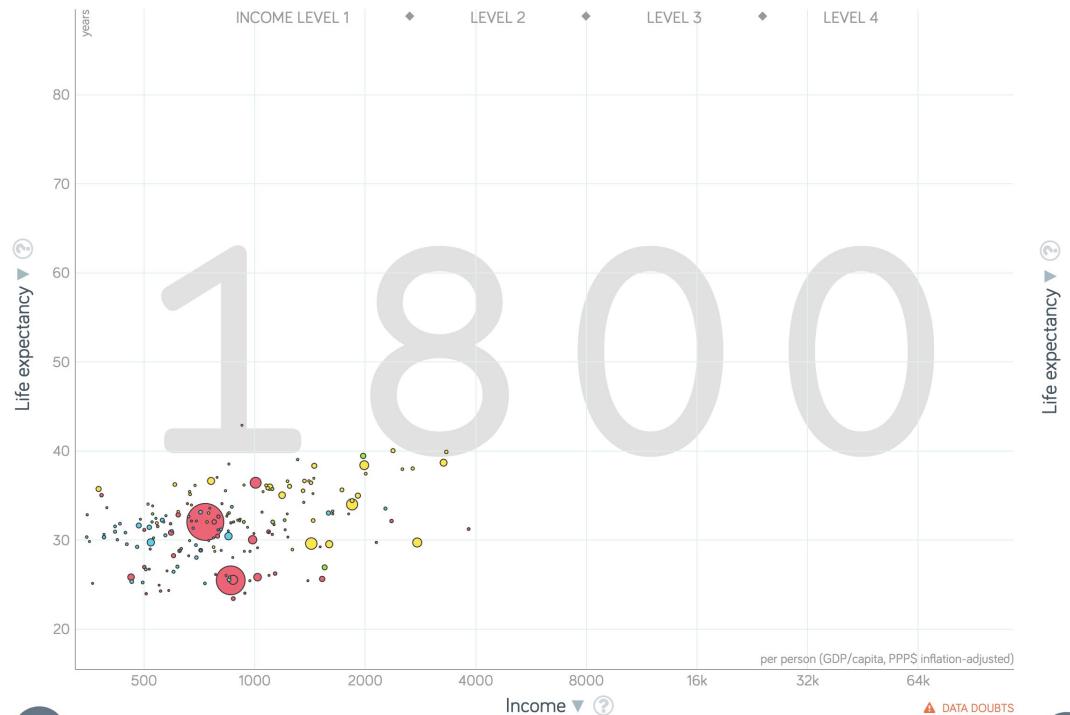
You can see how countries moved out of poverty [here](#)

You can visit homes and see what life is like for the extremely poor in [Dollar Street](#)

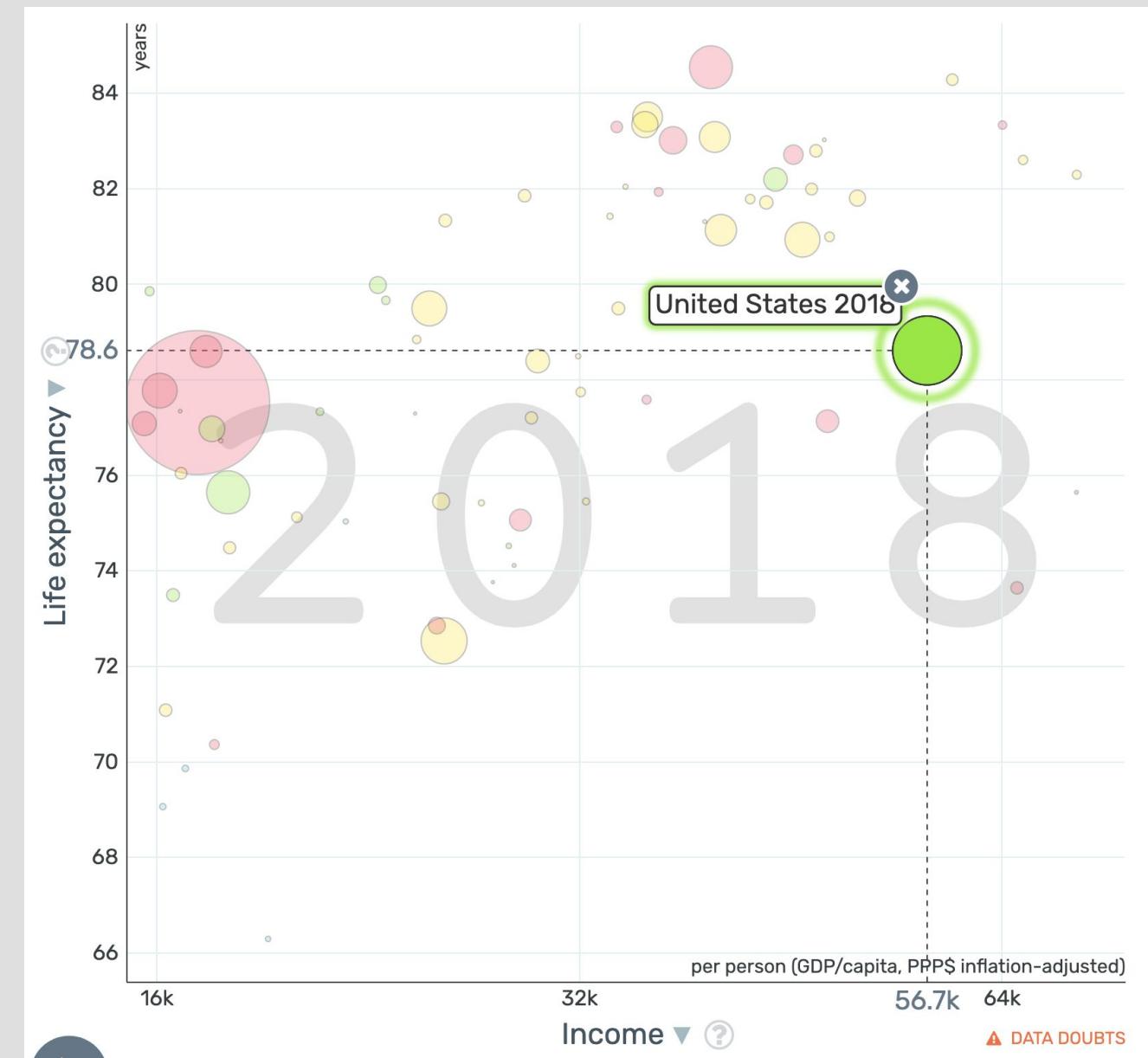
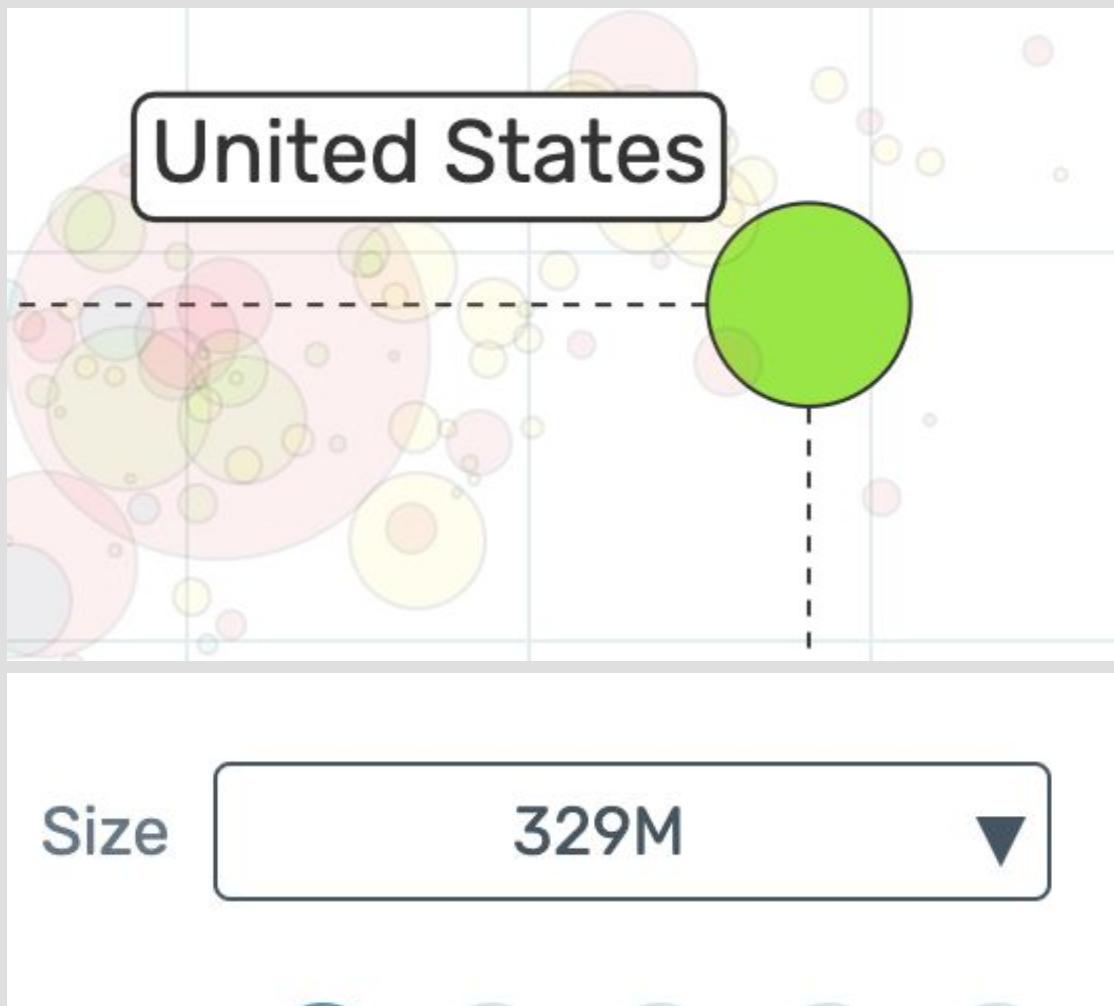
Read more about extreme poverty at [Our World In Data](#).

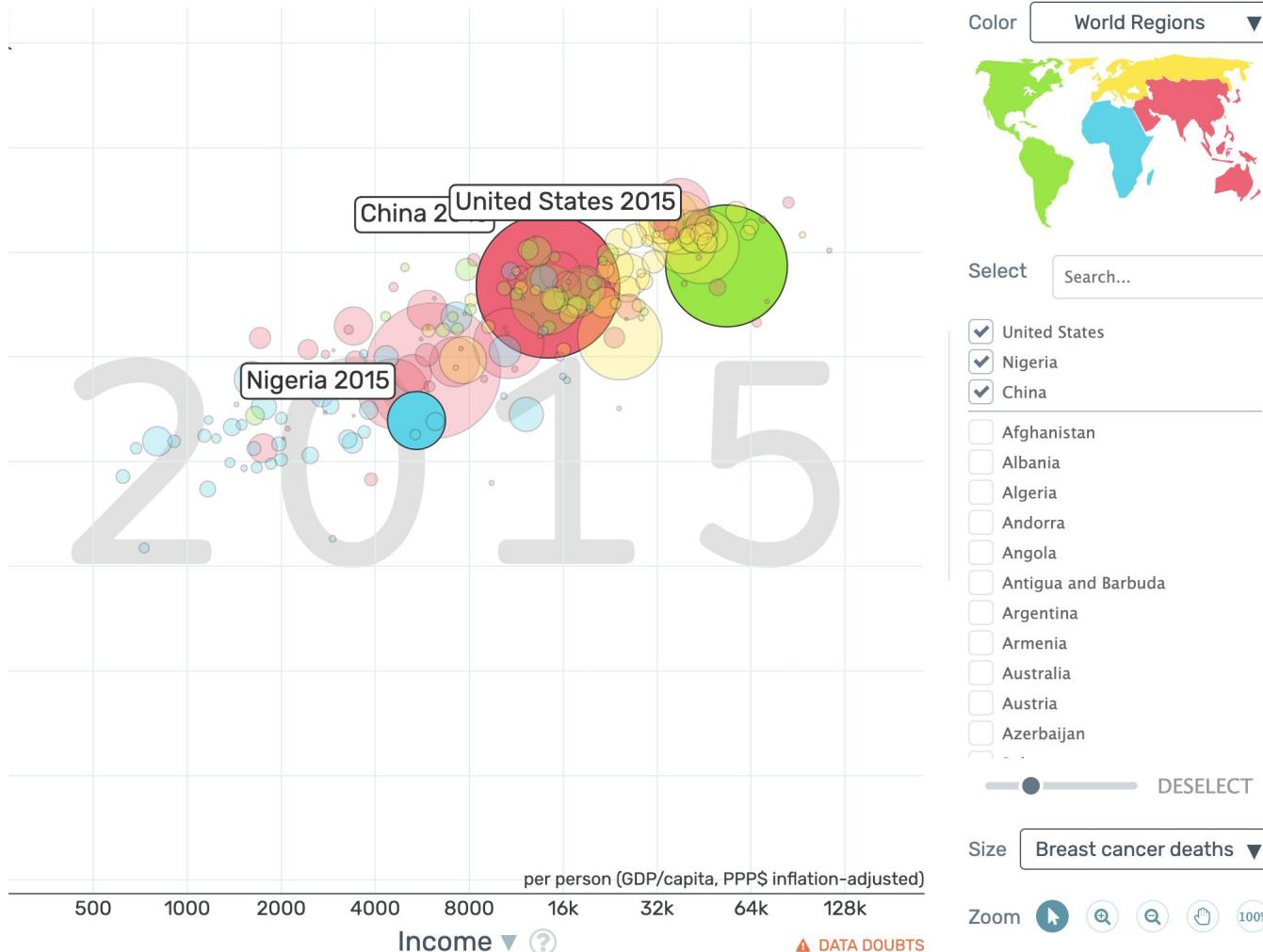
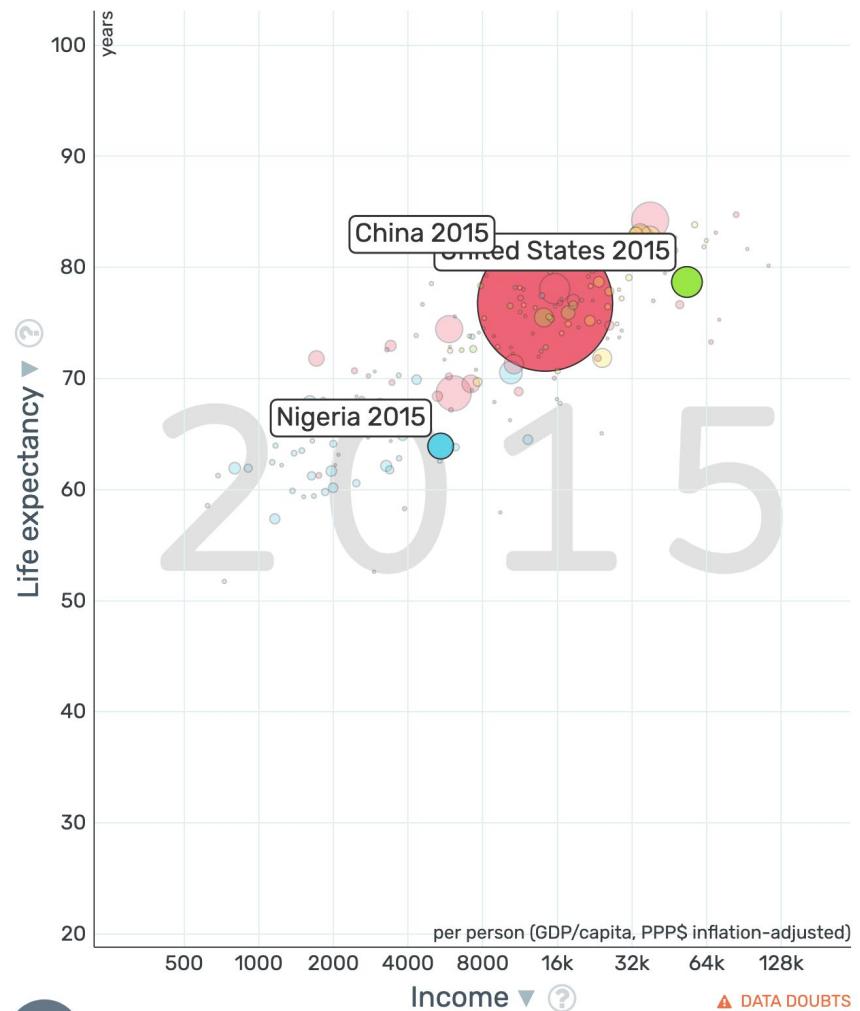






# Bubble Chart







Bubbles

FACTS

TEACH

ABOUT

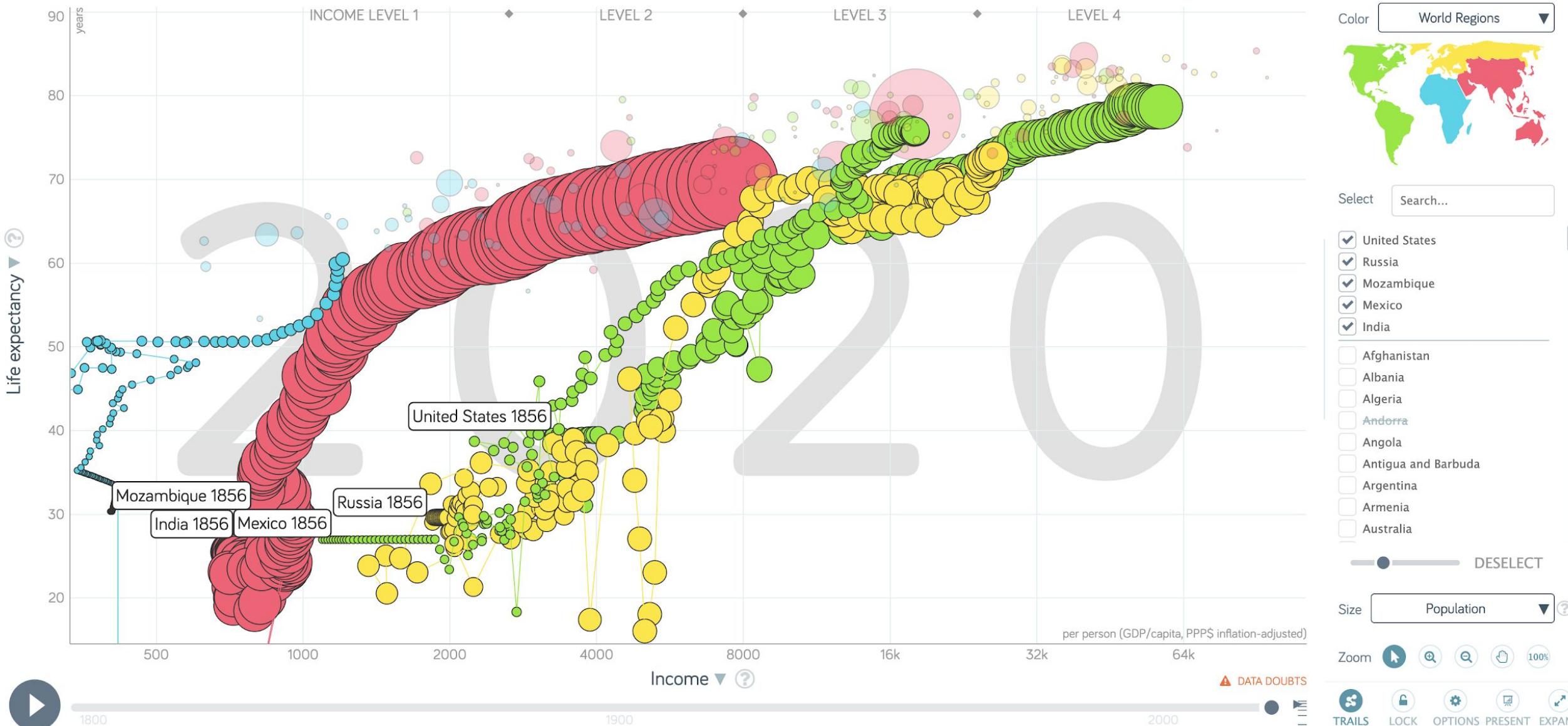


HOW TO USE

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English



Color

World Regions ▼



Select

Search...

- Afghanistan
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- Algeria
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- Angola
- Antigua and Barbuda
- Argentina
- Armenia
- Australia
- Austria
- Azerbaijan
- Bahamas
- Bahrain
- Bangladesh
- Barbados
- Belarus

## Categorical Data

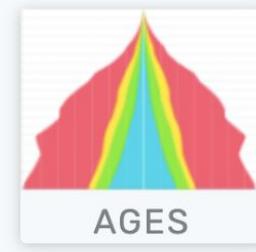
Qualitative data (occasionally known as categorical or thematic data) is distinct from sequential and divergent data: instead of representing proportional relationships, color is used to separate areas into distinct categories. Instead of a range of related colors, the palette should consist of colors as distinct from one another as possible. Due to the limits of perception, especially simultaneous contrast, the maximum number of categories that can be displayed is about 12 (practically speaking, probably fewer).



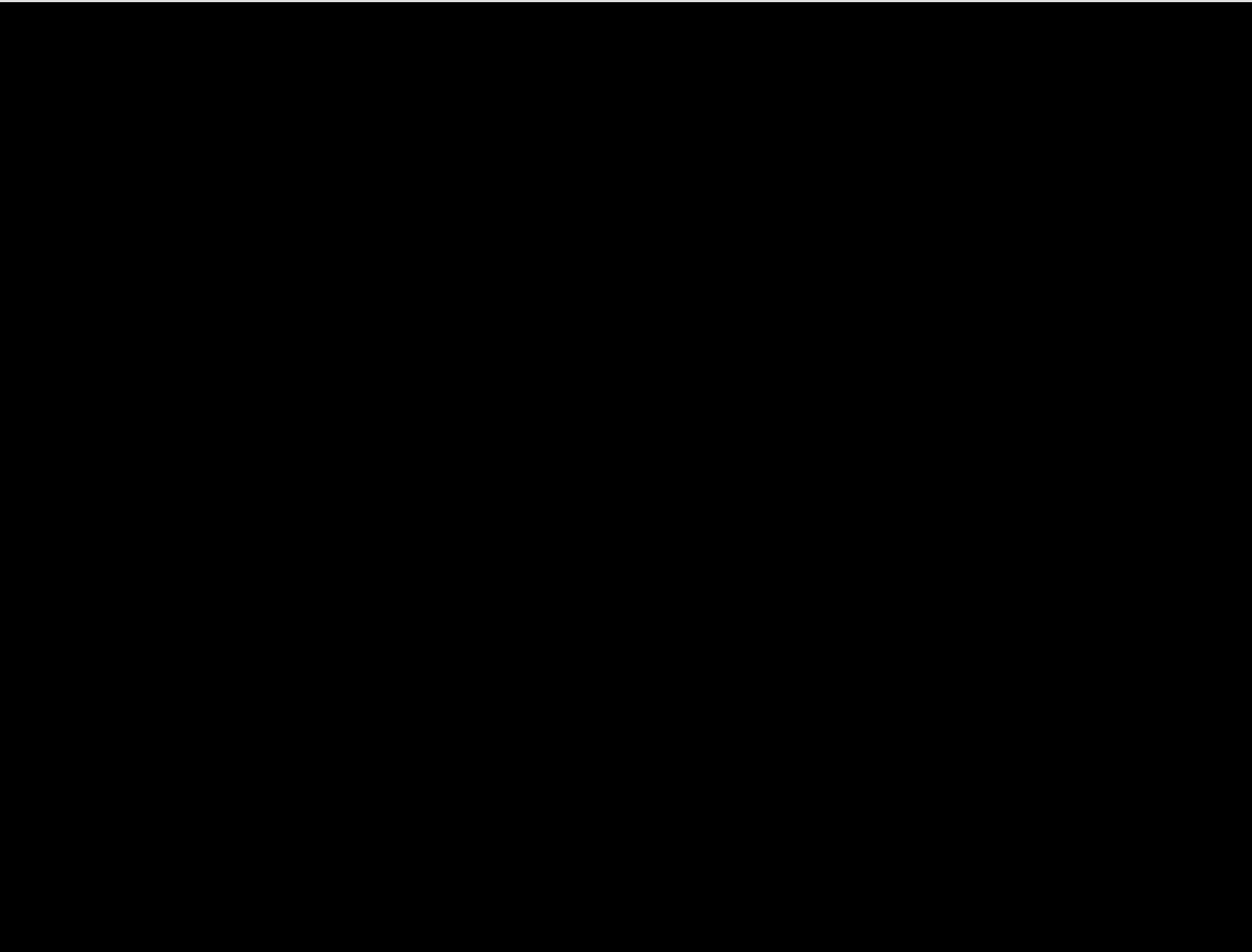
I Want Hue



Color Brewer



# Income Mountains



INCOME LEVEL 1

◆ LEVEL 2

◆ LEVEL 3

◆ LEVEL 4

Number of people by income ?

DATA DOUBTS

2 18

10.1%

EXTREME POVERTY

\$/day

0.2

0.5

1

2

5

10

20

50

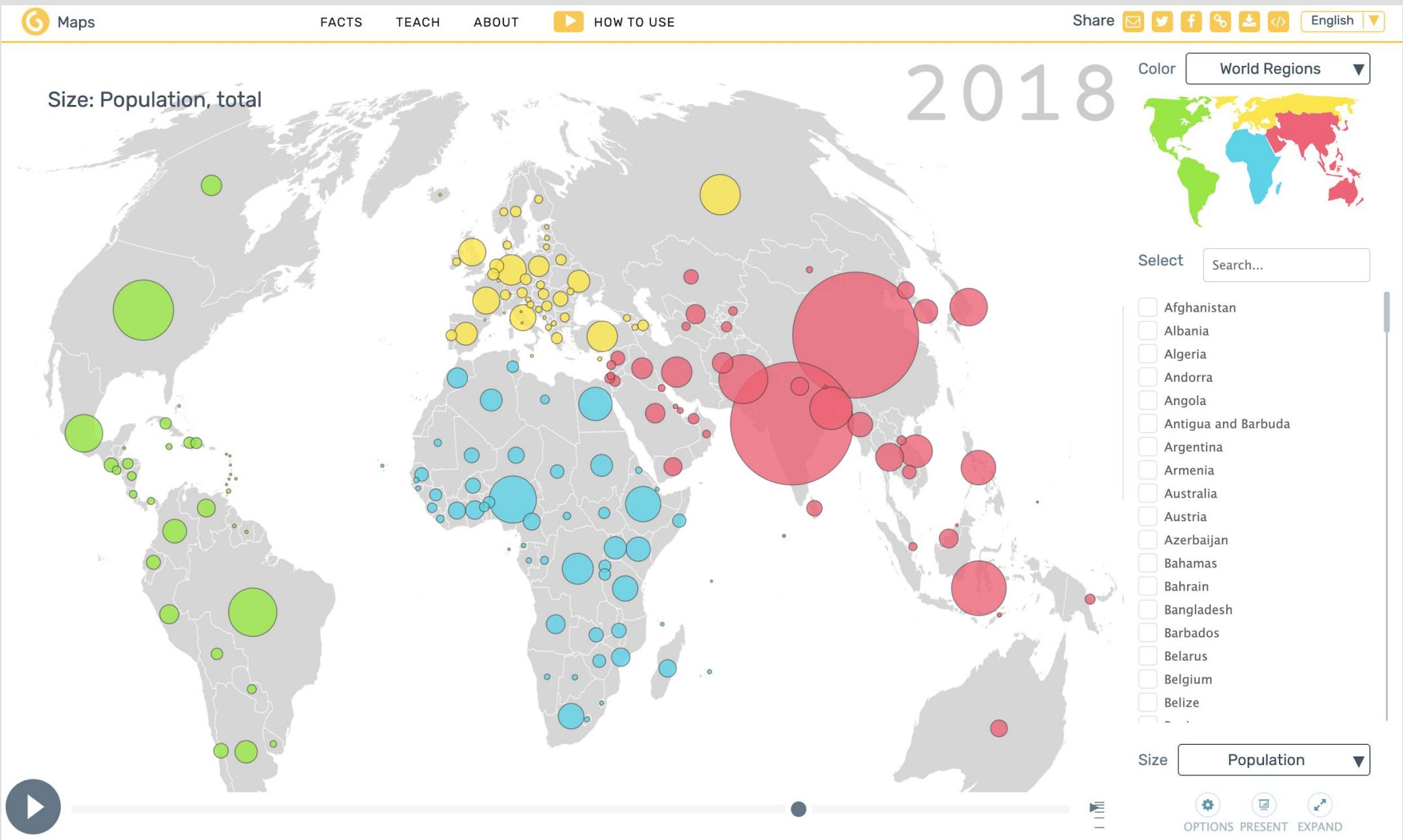
100

200

500

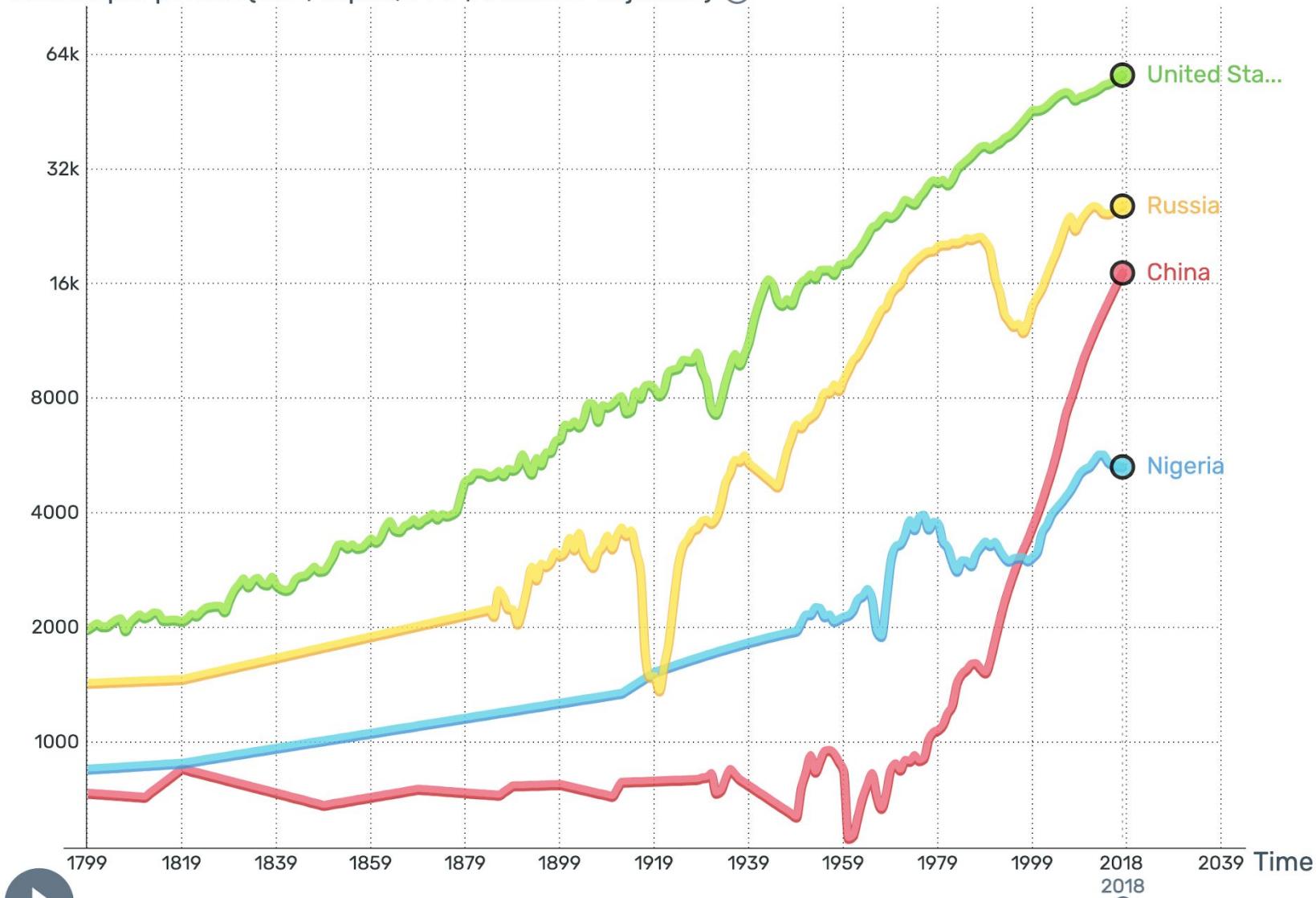


# Maps



# Trends / Line Chart

Income per person (GDP/capita, PPP\$ inflation-adjusted) ?



Color



Options

OPACITY

TIME

COLOR

X AND Y

X axis Time

min: 1799 max: 2039

Y axis Income

min: 560 max: 80000

LOOK AND FEEL

ABOUT

OK



# Income per person (GDP/capita, PPP\$ inflation-adjusted) ?

DAT Color World Regions ▼

Options

- OPACITY >
- TIME >
- COLOR >
- X AND Y ▾

X axis Time ▾

min: 1989 max: 2029

Y axis Income ▾

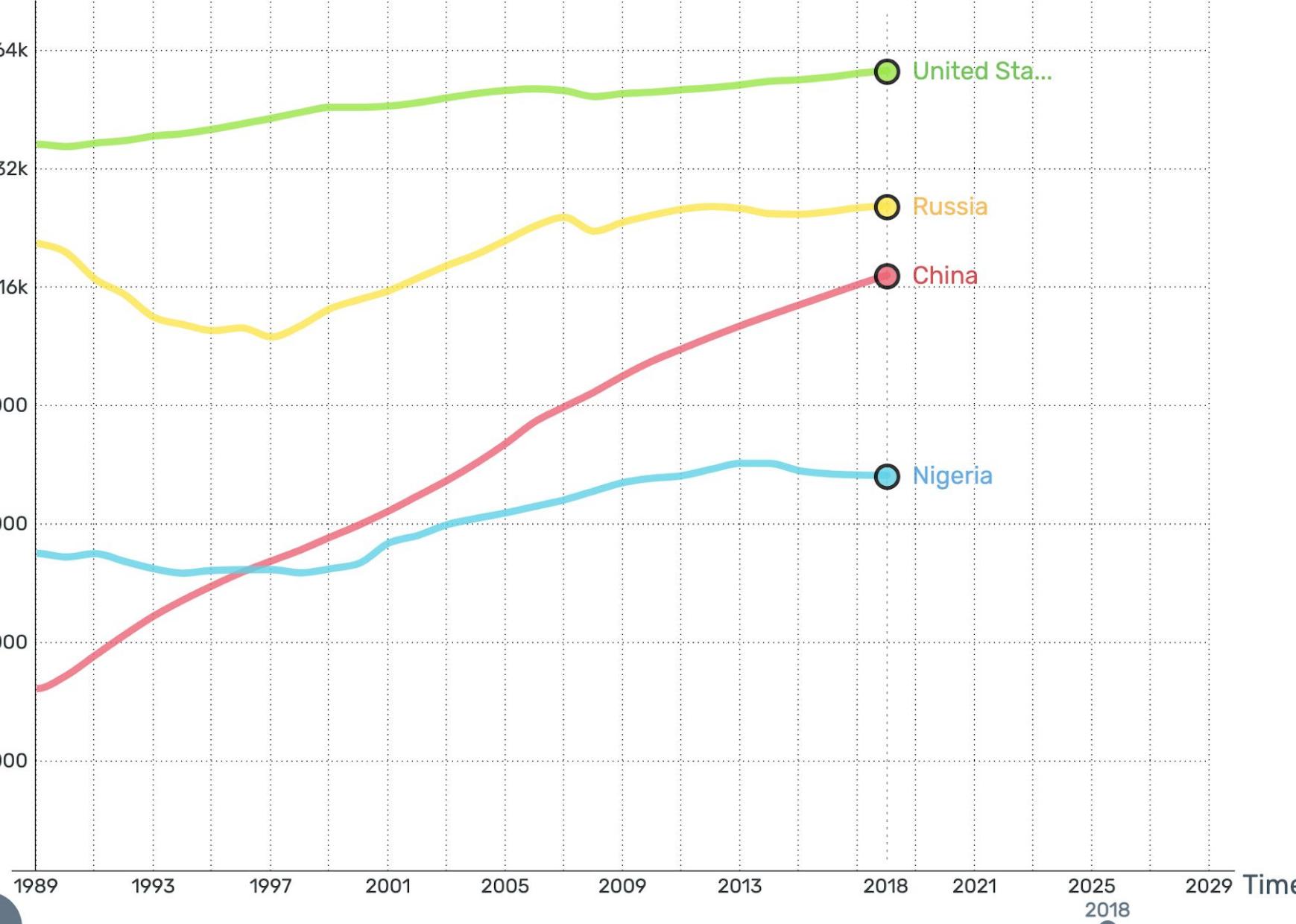
min: 560 max: 80000

LOOK AND FEEL >

ABOUT >

OK

OPTIONS PRESENT EXPAND



OPTIONS PRESENT EXPAND

# Rank



FACTS

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ABOUT

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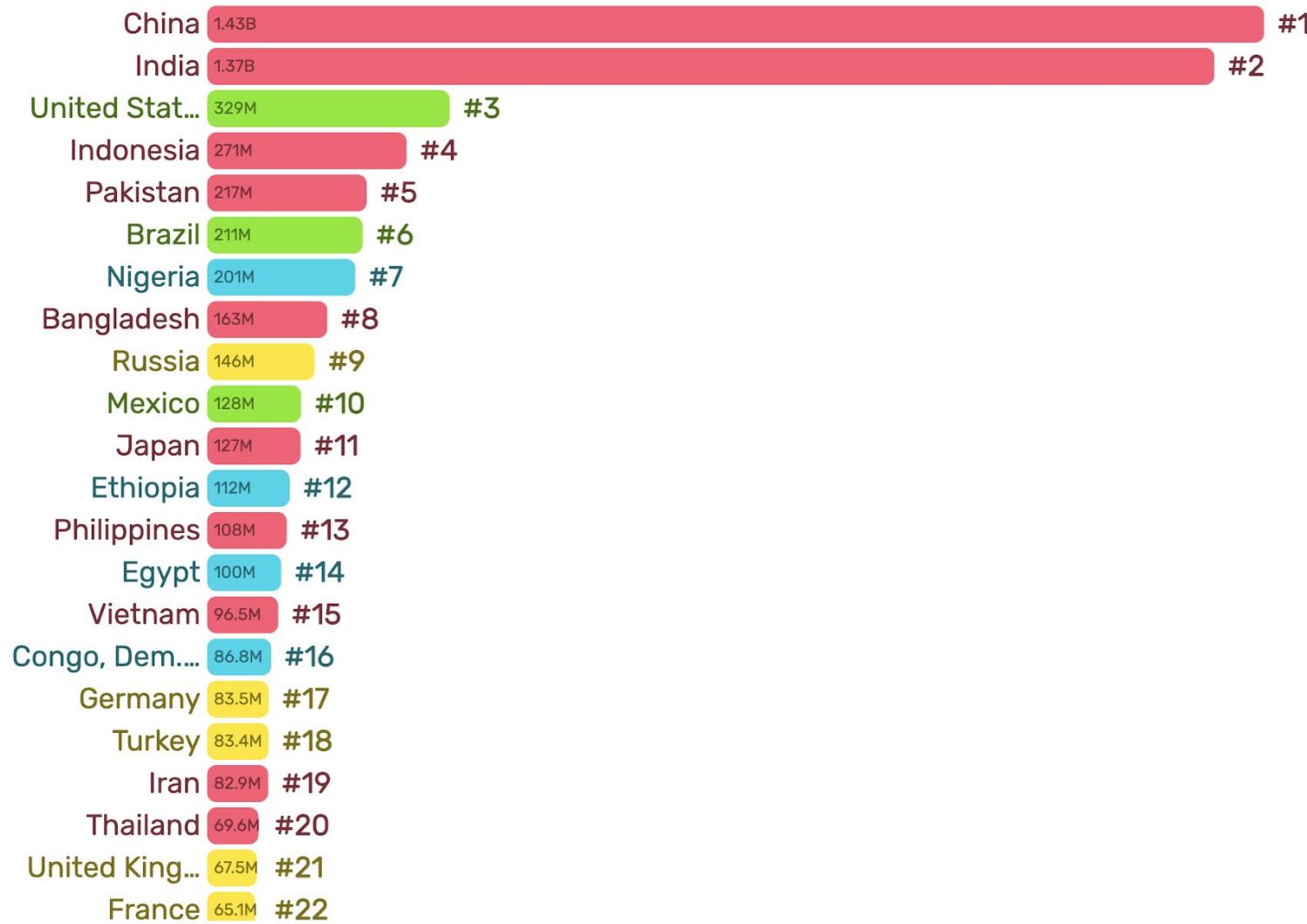
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English



## Population, total



2018

Color

World Regions



Select

Search...

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- Algeria
- Andorra
- Angola
- Antigua and Barbuda
- Argentina
- Armenia
- Australia
- Austria
- Azerbaijan
- Bahamas
- Bahrain
- Bangladesh
- Barbados



OPTIONS PRESENT EXPAND

# Age Pyramids



FACTS

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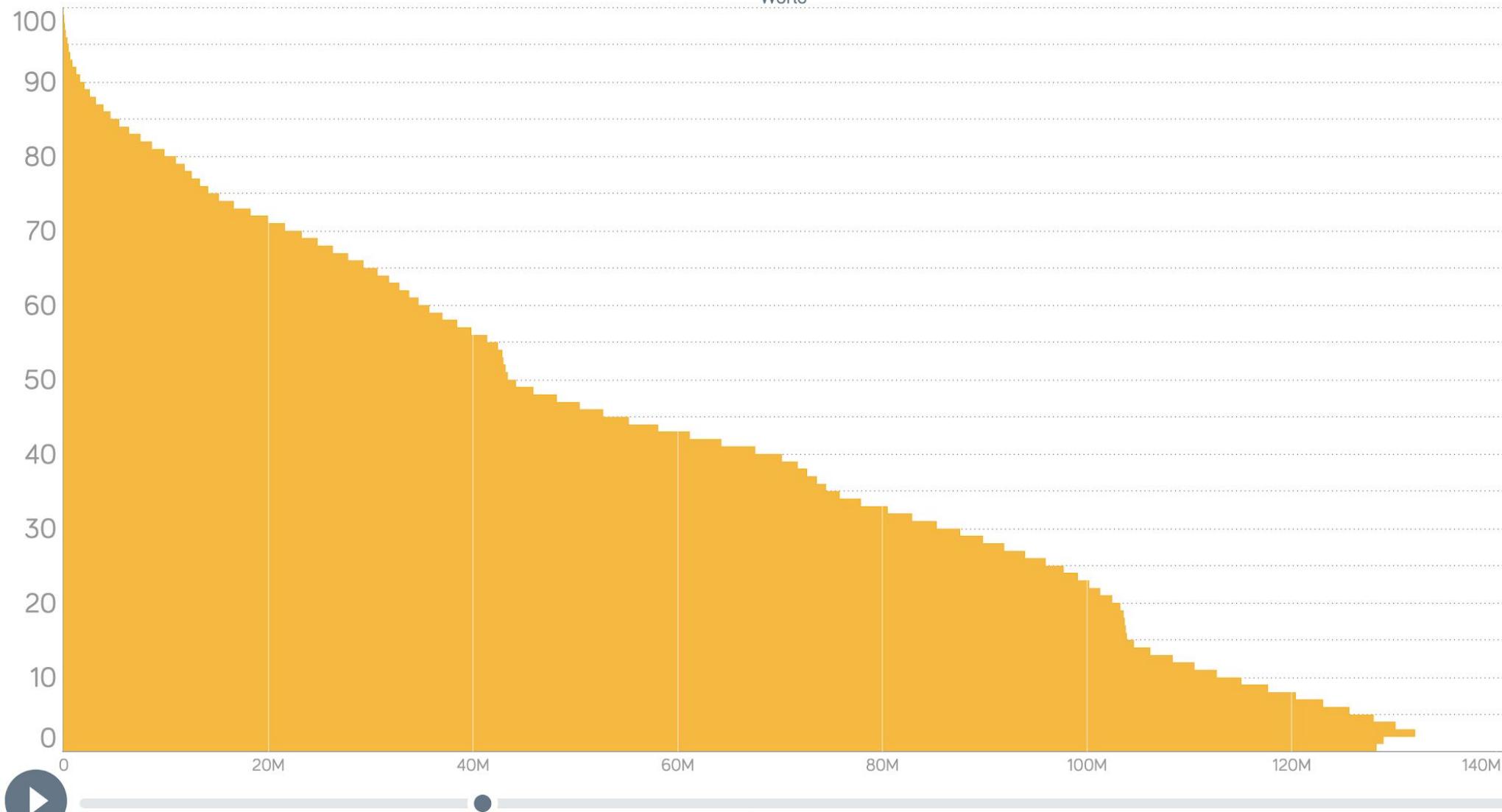
ABOUT

HOW TO USE

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Population by age

World



1992

Color World Regions ▾Show  Search...

Geographic location ▾

- World ✖
- Afghanistan
- Africa
- Albania
- Algeria
- Andorra
- Angola
- Antigua and Barbuda
- Argentina
- Armenia

APPLY

Group LOCK % OPTIONS EXPAND

# Dollar Street

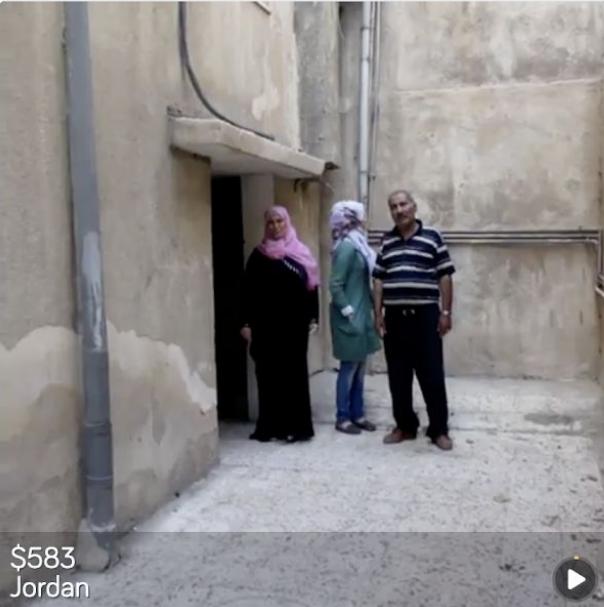


Families in The World by income



POOREST

RICHEST



POOREST



Photo: Angie Skazka for Dollar Street 2017 (Free to use under CC BY 4.0)

Download

\$3,755/month 

Hearne, South Africa



The Hearne family lives in South Africa. Their home is a well-equipped 2-bedroom apartment, located in a security complex behind the gates and electric fencing. Electricity is used for cooking, heating, cooling, etc. and is available with no interruptions. The tap water inside the house is safe to drink. Some household activities are done by a cleaning lady.

Visit this family 

Families in South Africa 





Families ▾ in The World ▾ by income



Families ▾ in The World ▾ by income

Search



Photos

Videos



### Related

Family snapshots

Homes

Most loved toys

Playing with most loved ...

Kitchens

Toilets

Beds

Kids bed

Cutlery

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Everyday shoes

### Popular

Beds

Floors

Hands

Pets

Teeth

Toilets

Toys

### All topics

DRINKING SOCIAL DRINKS

Drinking water

Drying clothes

drying dishes

Earrings

Eating

Everyday shoes

### Families

Family snapshots

Favorite home decorations

Favourite items in kitchen

First aid

Floors

Freezers

Front doors

The World ▾ by income

Search



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Ghana

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Liberia

Malawi

Nigeria

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Somalia

Asia

Bangladesh

Cambodia

China

India

Indonesia

Iran

Jordan

Kazakhstan

Kyrgyzstan

Lebanon

Mongolia

Myanmar

Nepal

Europe

Austria

Bulgaria

Czech Republic

France

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Bolivia

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Peru

United States

Show all

Cancel

# Download the data

## Choose individual indicators

This menu lists all indicators available in Gapminder Tools. Select one to preview the data, then click download as CSV or XLSX.

### Child mortality (0-5 year-olds dying per 1000 born)▼

*description:* Death of children under five years of age per 1,000 live births

*sourceLink:* <http://gapm.io/du5mr>

VIEW AS: 📈 ⚡

DOWNLOAD AS: CSV XLSX

country	1800	1801	1802	1803	1804	1805	1806	1807	1808	1809	1810	1811	1812	1813	1814	1815	1816	1817
Afghanistan	469	469	469	469	469	469	470	470	470	470	470	470	470	470	470	470	471	471
Albania	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375
Algeria	460	460	460	460	460	460	460	460	460	460	460	460	460	460	460	460	460	460
Andorra																		
Angola	486	486	486	486	486	486	486	486	486	486	486	486	486	486	486	486	486	486
Antigua and Barbuda	474	470	466	462	458	455	451	447	444	440	437	433	430	426	423	419	416	413
Argentina	402	402	402	402	402	402	402	402	402	402	402	402	402	402	402	402	402	402
Armenia	371	371	370	370	369	369	368	368	367	367	366	366	365	365	364	364	364	363
Australia	391	391	391	391	391	391	391	391	391	391	391	391	391	391	391	391	391	391
Austria	387	373	359	346	333	321	309	325	316	299	302	307	296	302	327	306	289	293
Azerbaijan	384	383	382	382	381	380	379	379	378	377	376	375	375	374	373	372	372	371
Bahamas	471	467	463	459	455	451	447	443	439	436	432	428	424	421	417	414	410	406

# Sources

<https://www.youtube.com/watch?v=hVimVzgtD6w>

<https://www.gapminder.org/>

[https://www.ted.com/speakers/hans\\_rosling](https://www.ted.com/speakers/hans_rosling)