



Brisbane, Australia 6-10 April

Presented at the FIG Working Week 2025,
6-10 April 2025 in Brisbane, Australia

Collaboration, Innovation and Resilience: Championing a Digital Generation

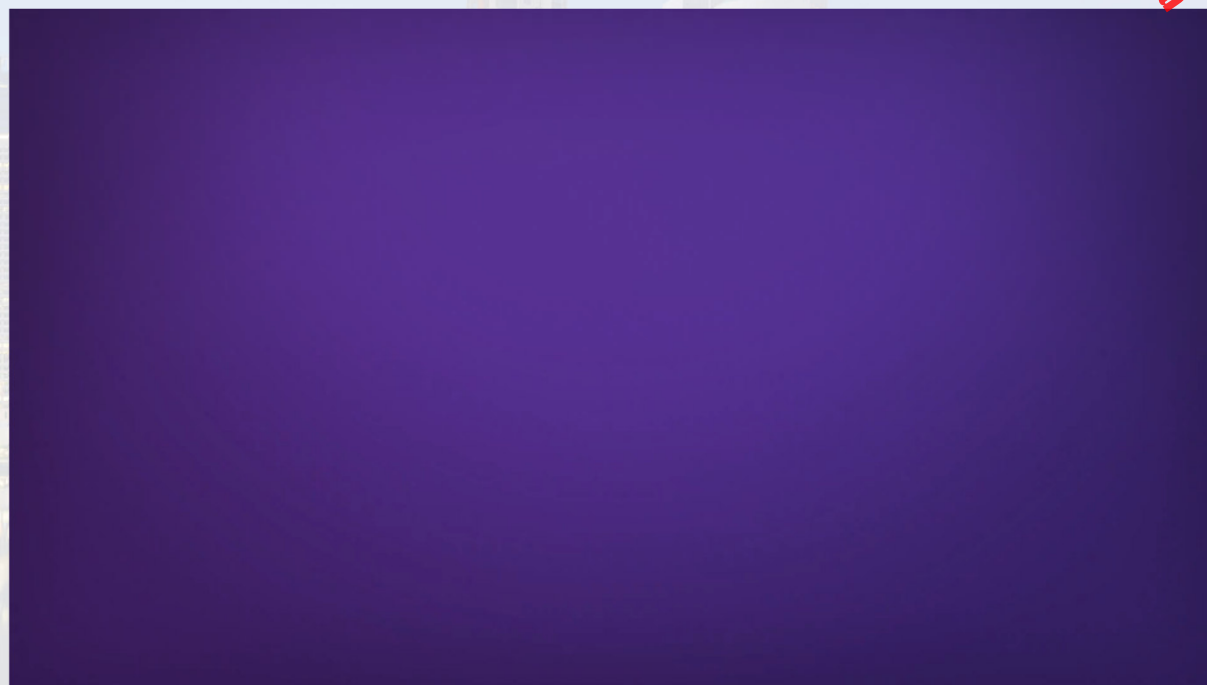
Mapipedia

A Collaborative Platform for Visualising Geospatial Time-Series Data and Interactive Learning

Dr David Philpot – Mapipedia Founder

david.philpot@mapipedia.com

Mon 7th April 2025



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What is Mapipedia?



Create, Collaborate, Educate

- Hobby project
- Free social media type tool to:
 - Share and visualise geospatial time-series data
 - Collaborate using comments, messages, follows, likes
 - Authors can accept donations
 - Show the: What, When, Where, How, Why of data
- Looking for early adopters

MapYour Data

Share it with the World
or Keep it Private



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Educate

 **Mapipedia**
.com





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CO2 Emissions per Capita: 1800-2021

https://mapipedia.com/s/u/drdave/co2_per_capita.html



Some smaller countries with high values removed

Western countries generally declining:

- UK: highest emitter during 1800s
- USA: 1972 (peak @ 23), 2021 (14.8)
- AUS: 2005 (peak @19), 2021 (15)

Asian countries generally climbing (but lower than west)

Saudi Arabi currently worst of the large countries in 2021 (18.6)

Source:

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

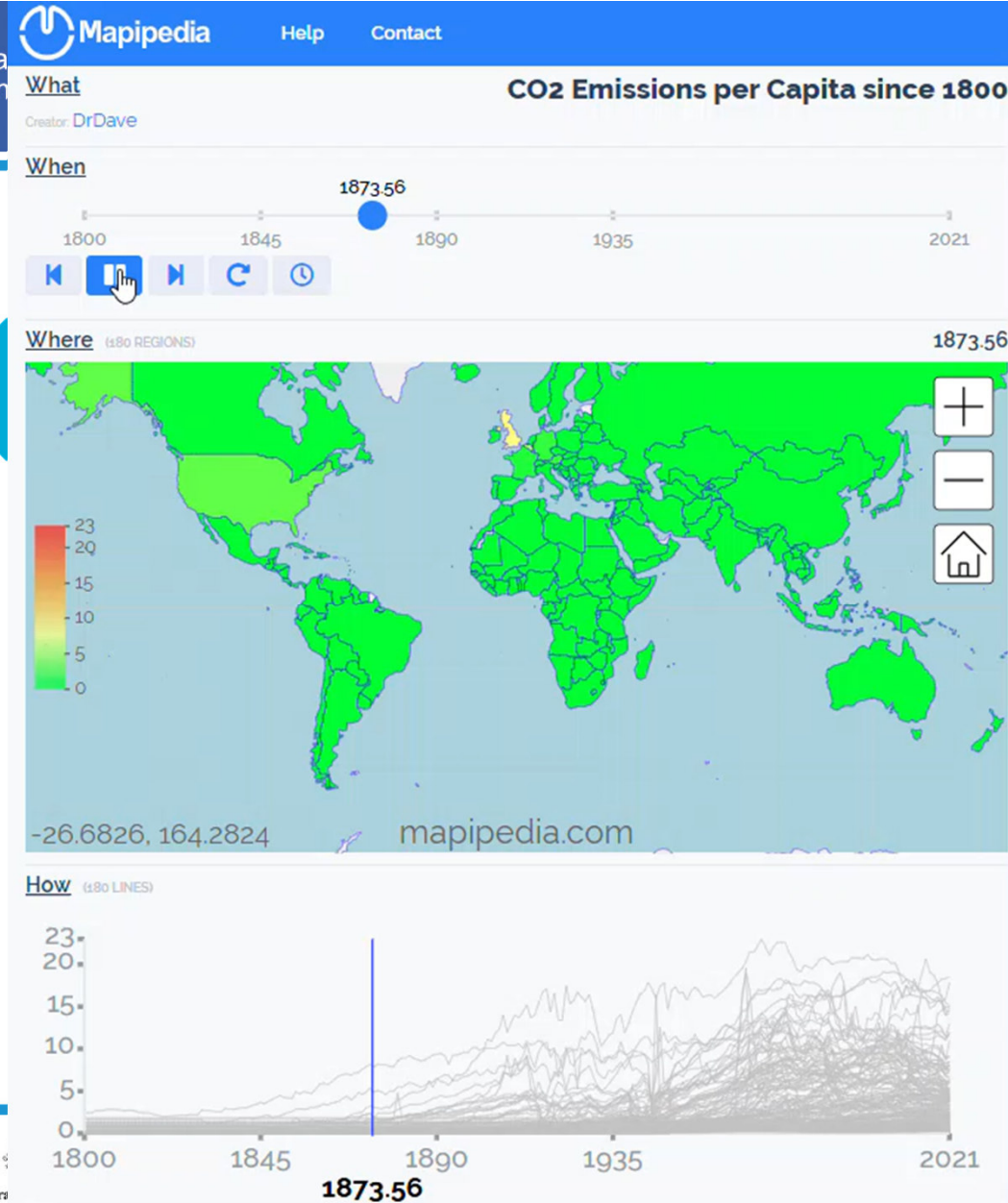
FREE DATA FROM WORLD BANK VIA [GAPMINDER.ORG](https://www.gapminder.org/), CC-BY LICENSE

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What

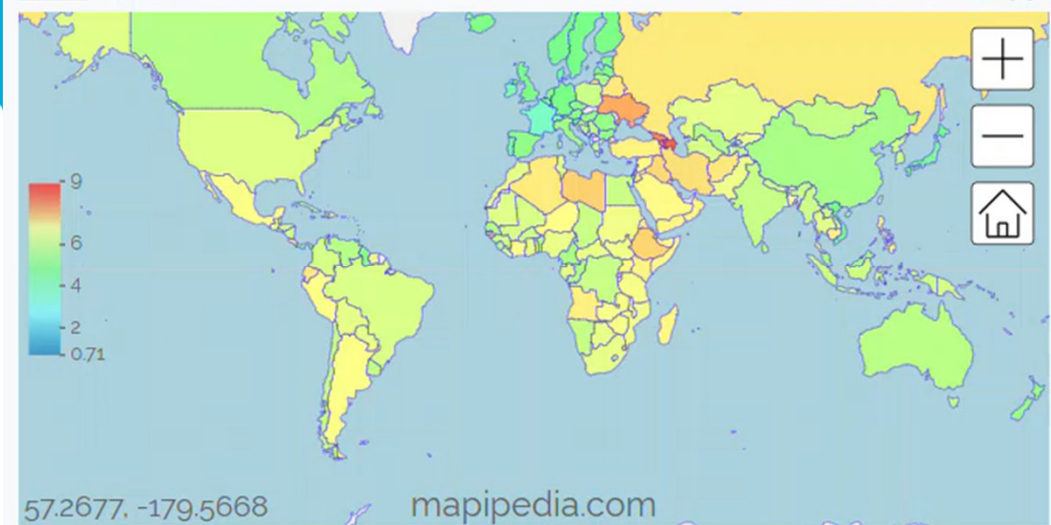
Creator: DrDave

Children per Woman (total fertility rate)

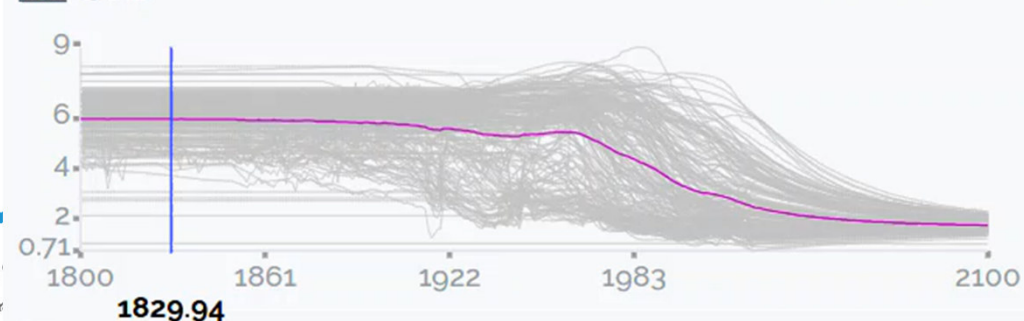
When



Where (187 REGIONS)



How (197 LINES)



Children per Woman: 1800-2100

https://mapipedia.com/s/u/drdave/fertility_rates_babies_per_woman.html

1 NO
POVERTY



Fertility rates are decreasing everywhere
(decreasing the slowest in Africa)

2024:

- Highest: 7.81 (Armenia)
- Lowest: 0.73 (South Korea)
- Non-Weighted Average: 2.42 (Global)

Further declines predicted into the future

Source:

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

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Life Expectancy

https://mapipedia.com/s/u/drDave/average_life_expectancy_by_country_since_1800.html

Dips usually caused by famine, war, disease:

- AIDS/HIV: worst early 2000s, largely recovered 2018
- WWI, Spanish Flu (1918)
- Rwanda Genocide (1994)

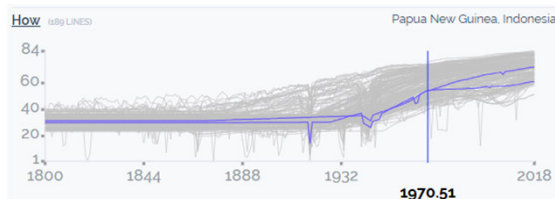
exceptions:

- Haiti earthquake (2010),
- Russian alcohol consumption (1990s)



Indonesia (72 yrs), PNG (61yrs):

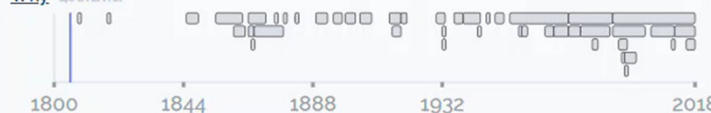
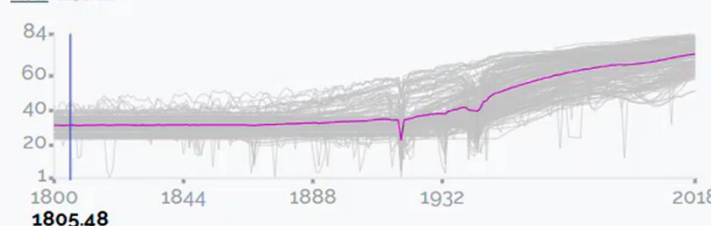
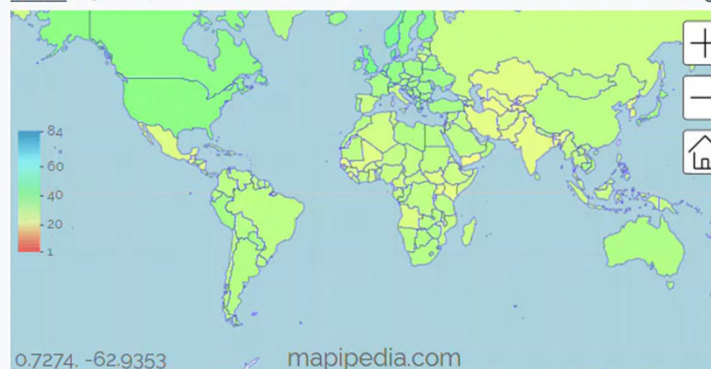
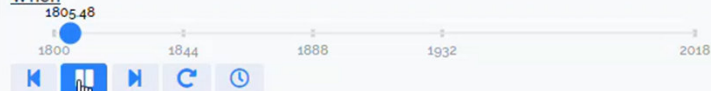
PNG lifespan is 11 years too short!



Source:

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

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What

Creator: DrDave

GPS Data: Fall migration of white storks in 2014

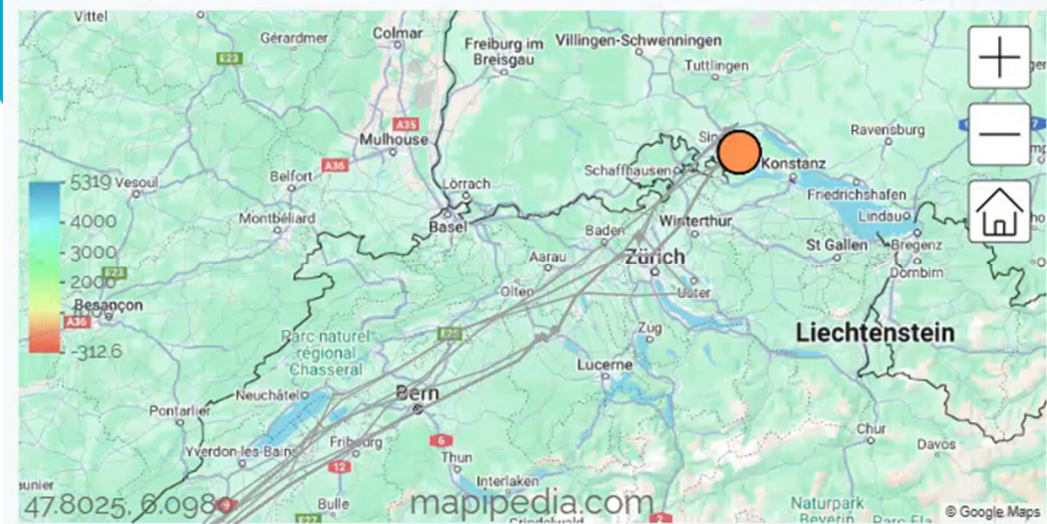
When

15 Aug 02:00

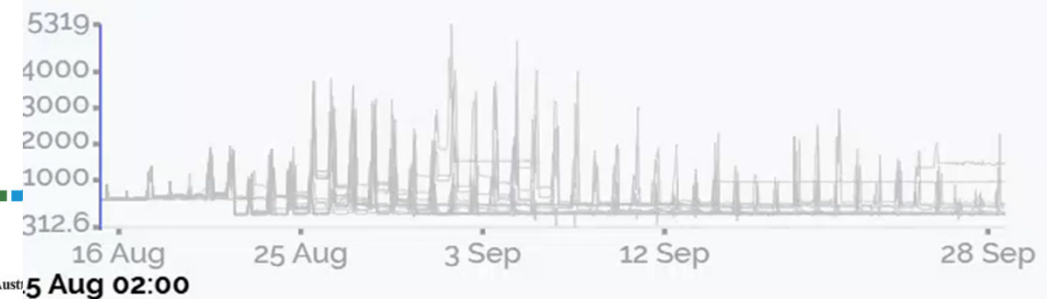


Where

15 Aug 2014 02:00



How (57 LINES)



GPS Data: Fall migration of white storks

https://mapipedia.com/s/u/drdave/fall_migration_of_white_storks_in_2014.html

15
LIFE
ON LAND



- 15th Aug 2014 – 28th Sep 2014
- Storks start in the same location and split up
- Graph shows the altitude. Clear day/night patterns can be seen.
- Zoom into Google Maps to get more context

Source:

<https://science.sciencemag.org/content/360/6391/911/tab-article-info>

<https://www.datarepository.movebank.org/handle/10255/move.604>

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Captain James Cook's First Voyage

What

Creator: DrDave

When

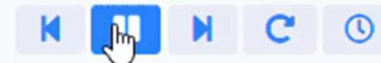
31 Aug 1768



1769

1770

1 Jul 1771



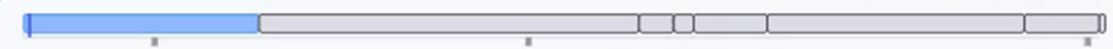
Where

31 Aug 1768



Why (8 EVENTS)

Depart England on HMS Endeavour



1769

1770

1 Jul 1771

31 Aug 1768

Captain James Cook's First Voyage to Australia

https://mapipedia.com/s/u/drddave/captain_james_cook.html

4

QUALITY
EDUCATION



26th Aug 1768 to 12th July 1771

Source:

https://en.wikipedia.org/wiki/James_Cook

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Formation of the USA

https://mapipedia.com/s/u/dr-dave/united_states_of_america_formation.html

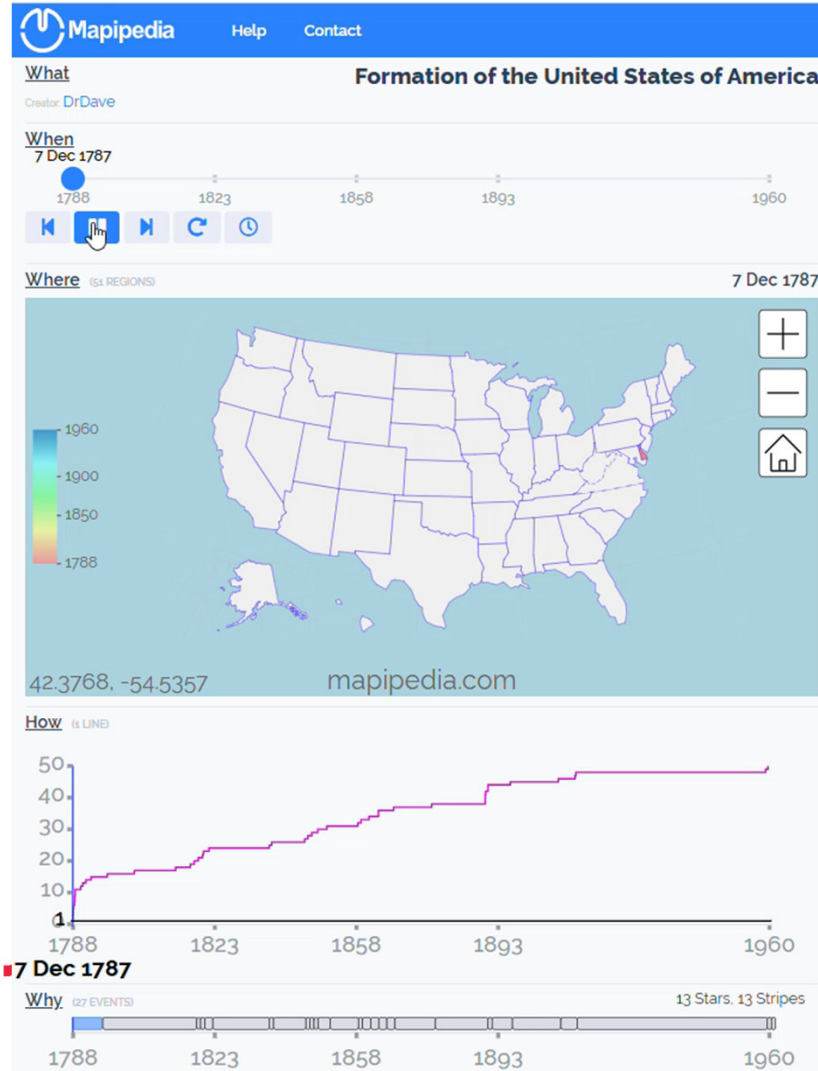
- Different map (USA not global)
- Earlier states red => later states blue
- Graph shows number of states over time
- Gantt chart represents flags
- Start: Delaware 7th Dec 1787
- Alaska and Hawaii last to join (~1960)
- Stars in flag = number of states



Source:

https://en.wikipedia.org/wiki/List_of_U.S._states_by_date_of_admission_to_the_Union

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Like Follow

^ - 1 May 1795: 13 Stars, 13 Stripes

Duration: 18 years.



Francis Hopkinson's flag for the U.S. Navy, featuring 13 six-pointed stars arranged in rows.

Francis Hopkinson's Flag

States represented by this flag are: Connecticut, Delaware, Georgia, Maryland, Massachusetts, New Hampshire, New Jersey, New York, North Carolina, Pennsylvania, Rhode Island, South Carolina, Virginia.



13-star so-called "Betsy Ross" variant

Geotagged Photos

<https://mapipedia.com/s/u/drdave/demo.html>

15

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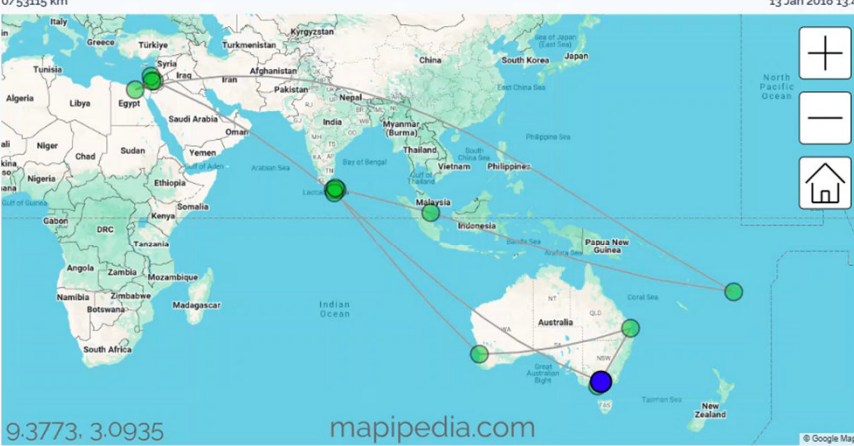
- Import geotagged photos
- Add comments to photos
- Share with others
- Could be used to track wildlife

Mapipedia Help Contact

Holiday Photos
13 Jan 13:45

1 Jul 2019 1 Jul 2020

0/53115 km

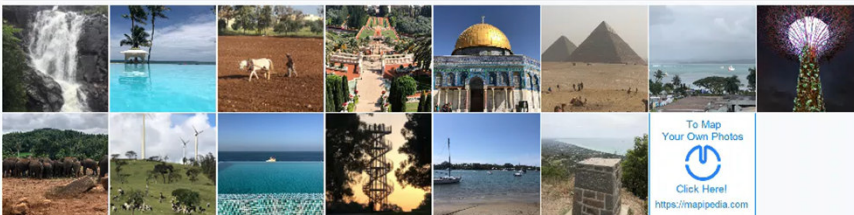


13 Jan 2018 13:45

9:3773, 3:0935

mapipedia.com

© Google Maps



To Map Your Own Photos
Click Here!
<https://mapipedia.com>



Here are some of the top shots from my latest travels. I hope you enjoy them!

Share

Public Pages by DrDave:

Please try it out!

4 QUALITY
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17 PARTNERSHIPS
FOR THE GOALS



1. Find a page that you want to copy
2. Download the CSV data
3. Edit the CSV in Excel
4. Click “Edit” button
5. Paste in the updated CSV data

Tutorials available on YouTube

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The most relevant SDGs related to the presentation and theme of this session



**SUSTAINABLE
DEVELOPMENT GOALS**

International Federation of Surveyors supports the
Sustainable Development Goals



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STEP 1: SELECT HERE THE THREE MOST RELEVANT SDGs
STEP 2: COPY THE SDG INTO PREVIOUS SLIDE



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