

# #30DayChartChallenge

April 2022 • 30 Days • 30 Charts • 5 Categories



Comparisons



Distributions



Relationships



Timeseries



Uncertainties

**Cédric Scherer & Marco Sciaini**

Observable Special Event | May 2<sup>nd</sup> 2022

Follow @30DayChartChall for more!

**Dominic Royé**  
@dr\_xeo  
Initiator



**Cédric Scherer**  
@CedScherer  
Initiator

**Wendy Shijia**  
@ShijiaWendy  
Support



**Marco Sciaiani**  
@shinysci  
Support

# #30DayMapChallenge

- 
- 1. Points
  - 2. Lines
  - 3. Polygons
  - 4. Hexagons(!)
  - 5. Raster
  - 6. Blue
  - 7. Red
  - 8. Green
  - 9. Yellow
  - 10. Black and white
  - 11. Elevation
  - 12. Movement
  - 13. Tracks
  - 14. Boundaries
  - 15. Names
  - 16. Places
  - 17. Zones
  - 18. Globe
  - 19. Urban
  - 20. Rural
  - 21. Environment
  - 22. Built environment
  - 23. Population
  - 24. Statistics
  - 25. Climate
  - 26. Hydrology
  - 27. Resources
  - 28. Funny
  - 29. Experimental
  - 30. Home

...



Topi Tjukanov  
@tjukanov

Announcing #30DayMapChallenge in November 2019!  
Create a map each day of the month with the following  
themes



No restriction on tools. All maps should be created by  
you. Doing less than 30 maps is fine.

#gischat #geography #cartography #dataviz

2:53 PM · Oct 25, 2019 · Twitter Web App

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309 Retweets 117 Quote Tweets 820 Likes

# #30DayMapChallenge

- 1. Points
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- 1. Points
- 2. Lines
- 3. Polygons
- 4. Hexagons
- 5. Blue
- 6. Red
- 7. Green
- 8. Yellow
- 9. Monochrome
- 10. Grid

- 11. Elevation
- 12. Movement
- 13. Tracks
- 14. Boundaries
- 15. Names
- 16. Places
- 17. Zones
- 18. Globe
- 19. Urban
- 20. Rural

- 21. Environment
- 22. Built environment
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- 26. Hydrology
- 27. Resources
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# #30DayMapChallenge

November 2020

- 11. 3D
- 12. Map not made with GIS software
- 13. Raster
- 14. Climate change
- 15. Connections
- 16. Island(s)
- 17. Historical map
- 18. Landuse
- 19. NULL
- 20. Population

- 21. Water
- 22. Movement
- 23. Boundaries
- 24. Elevation
- 25. COVID-19
- 26. Map with a new tool
- 27. Big or small data
- 28. Non-geographic map
- 29. Globe
- 30. A map



**Topi Tjukanov** @tjukanov · Nov 29, 2020

One day left of #30DayMapChallenge. Should it be next year...

Same. 30 maps in 30 days

51.1%

15 maps in 30 days

36.1%

Something else. What?

12.8%

366 votes · Final results



18



8



35



**Dominic Royé**  
@dr\_xeo

Replying to @tjukanov

Is there already a corresponding  
#30dayschartchallenge?

7:34 PM · Nov 30, 2020 · Twitter for Android

2 Likes



**Topi Tjukanov** @tjukanov · Nov 30, 2020

Replying to @dr\_xeo

The hashtag seems to be empty, so I guess not.



1



1



1



**Dominic Royé** @dr\_xeo · Nov 30, 2020

So, when should we do the first chart challenge? Someone else interested?  
@CedScherer? 😊





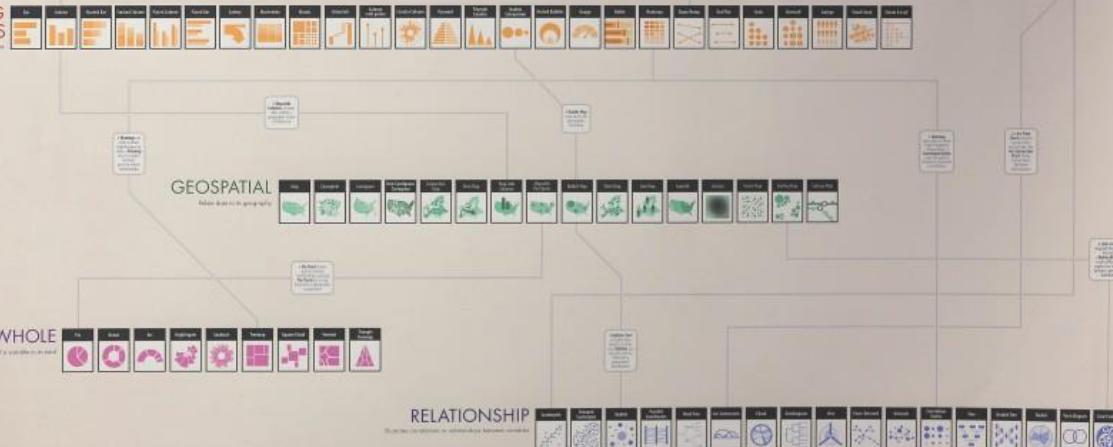
# THE GRAPHIC CONTINUUM

The Graphic Continuum shows several ways that data can be illustrated individually or combined to show relationships. Use of various shapes, chart types, and colors can help identify patterns, tell stories, and reveal relationships between different sets and types of data. Box charts, or histograms, for example, can illustrate a distribution of data over time, but they also can show categorical or geographic distributions. Box charts can also show data from a single dimension or, for a period, but they also can be used to identify a distribution, around a mean.

This is not a chart or exhaustive list, nor do the connections represent every possible pathway for linking data and ideas. Instead, The Graphic Continuum identifies seven presentation methods, and it illustrates some of the connections that can link different representations together. The six groups do not define all possibilities. Many other useful, overlapping data types and visualization techniques are possible.

This chart can guide graphic choices, but your imagination can lead the way to other effective ways to present data.

## COMPARING CATEGORIES



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www.schwabisch.com.br

"The Graphic Continuum" by Jonathan Schwabisch and Severino Ribecca

# #30DayChartChallenge

April 2022 • 30 Days • 30 Charts • 5 Categories



## Comparisons

## Distributions

## Relationships

## Timeseries

## Uncertainties

- |                      |                                 |                       |                                   |                                |
|----------------------|---------------------------------|-----------------------|-----------------------------------|--------------------------------|
| 1. part-to-whole     | 7. physical                     | 13. correlation       | 19. global change                 | 25. trend                      |
| 2. pictogram         | 8. mountains                    | 14. 3-dimensional     | 20. new tool                      | 26. interactive                |
| 3. historical        | 9. statistics                   | 15. multivariate      | 21. down/upwards                  | 27. future                     |
| 4. flora             | 10. experimental                | 16. environment       | 22. animation                     | 28. deviations                 |
| 5. slope             | 11. circular                    | 17. connections       | 23. tiles                         | 29. storytelling               |
| 6. data day:<br>OWID | 12. theme day:<br>The Economist | 18. data day:<br>OECD | 24. theme day:<br>Financial Times | 30. data day:<br>UN Population |

Follow @30DayChartChall for more!

# 30DayChartChallenge.org

The **#30DayChartChallenge** is a community-driven event with the goal to create a data visualization on a certain topic each day of April.

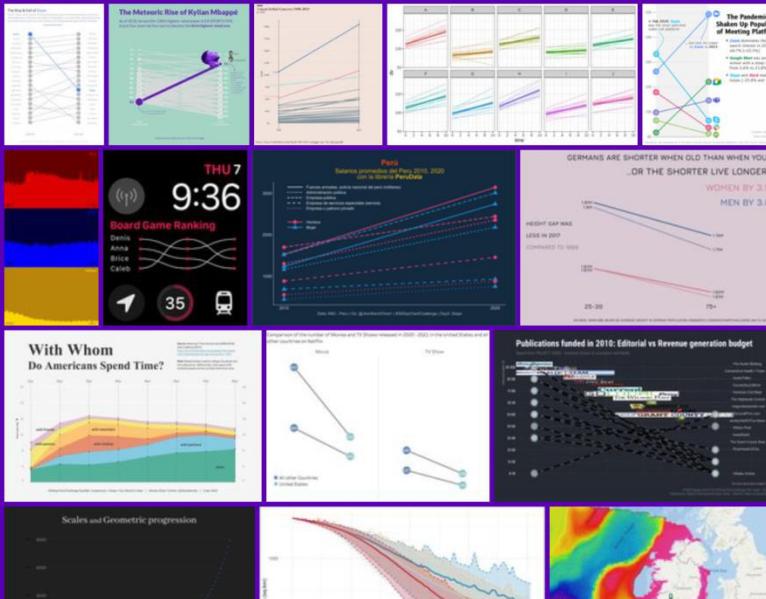
2022

About

# 30DayChartChallenge.org

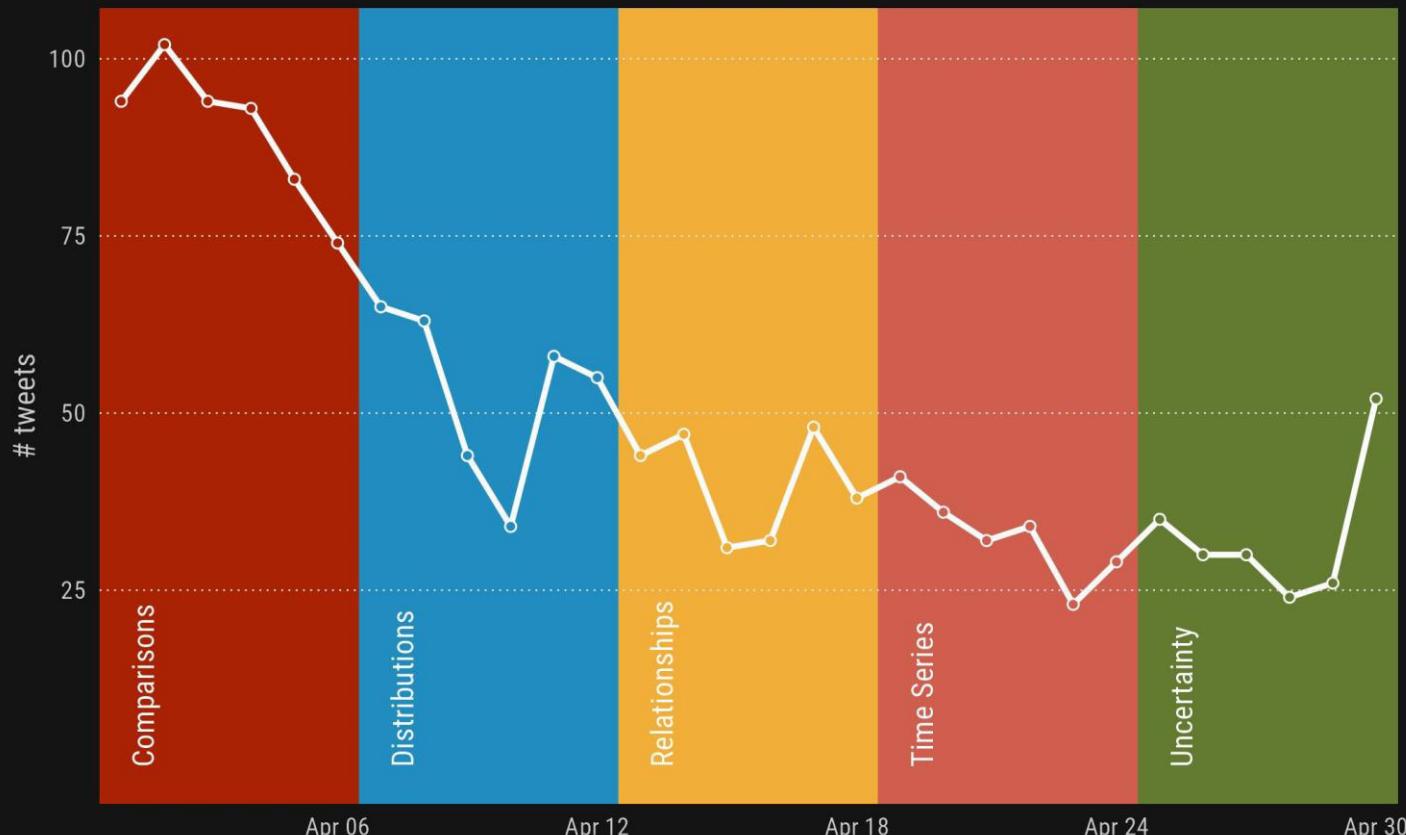
2022

All contributions to the 2nd edition shared on Twitter with #30DayChartChallenge.



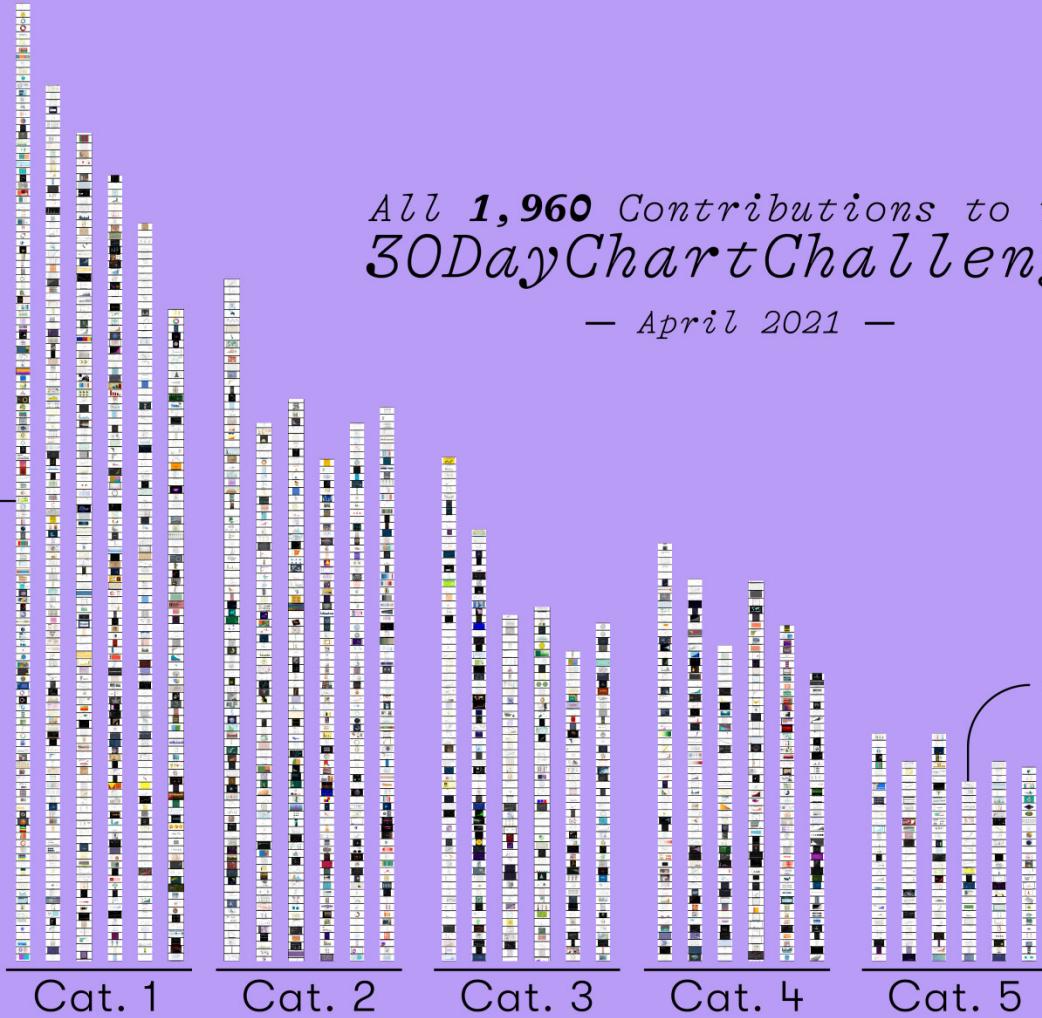
# Contributions to #30DayChartChallenge 2022

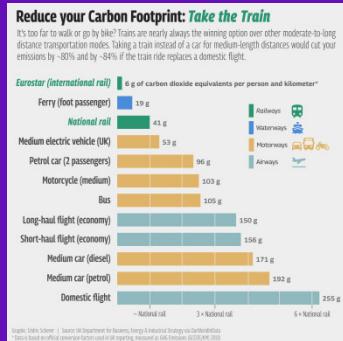
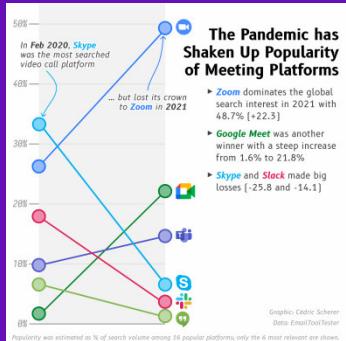
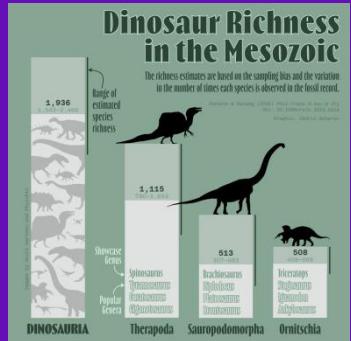
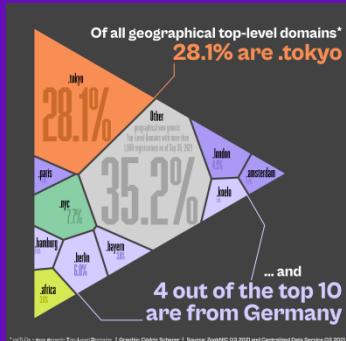
Number of tweets per day with a media URL (excl. retweets)



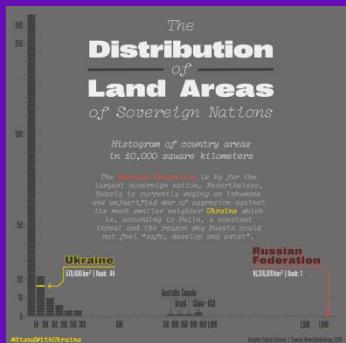
Source: Twitter Search API | Visualization: Ansgar Wolsing

*Day 1: Part-to-Whole*  
Overwhelming start with  
**135** contributions

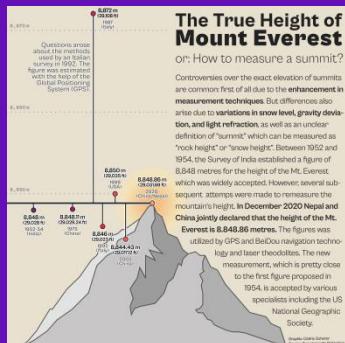




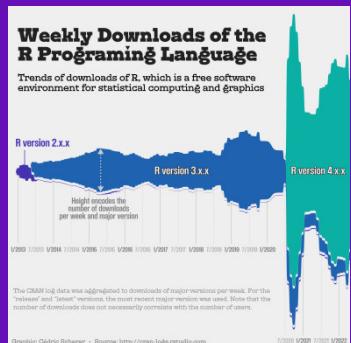
## Part-to-Whole



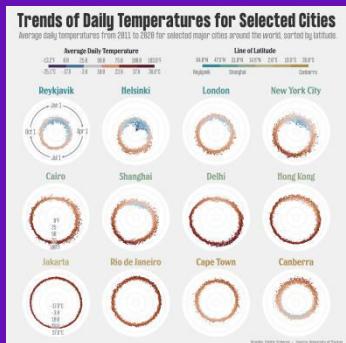
## Pictogram



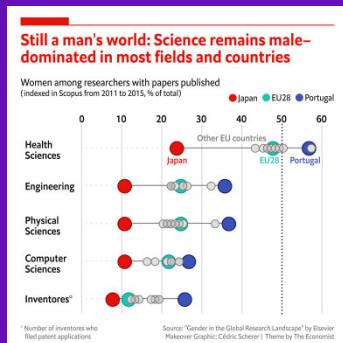
## Historical



## Slope



## OWID Data



## Physical

## Mountains

## Statistical

## Circular

## Economist Theme

# State Soils of the USA

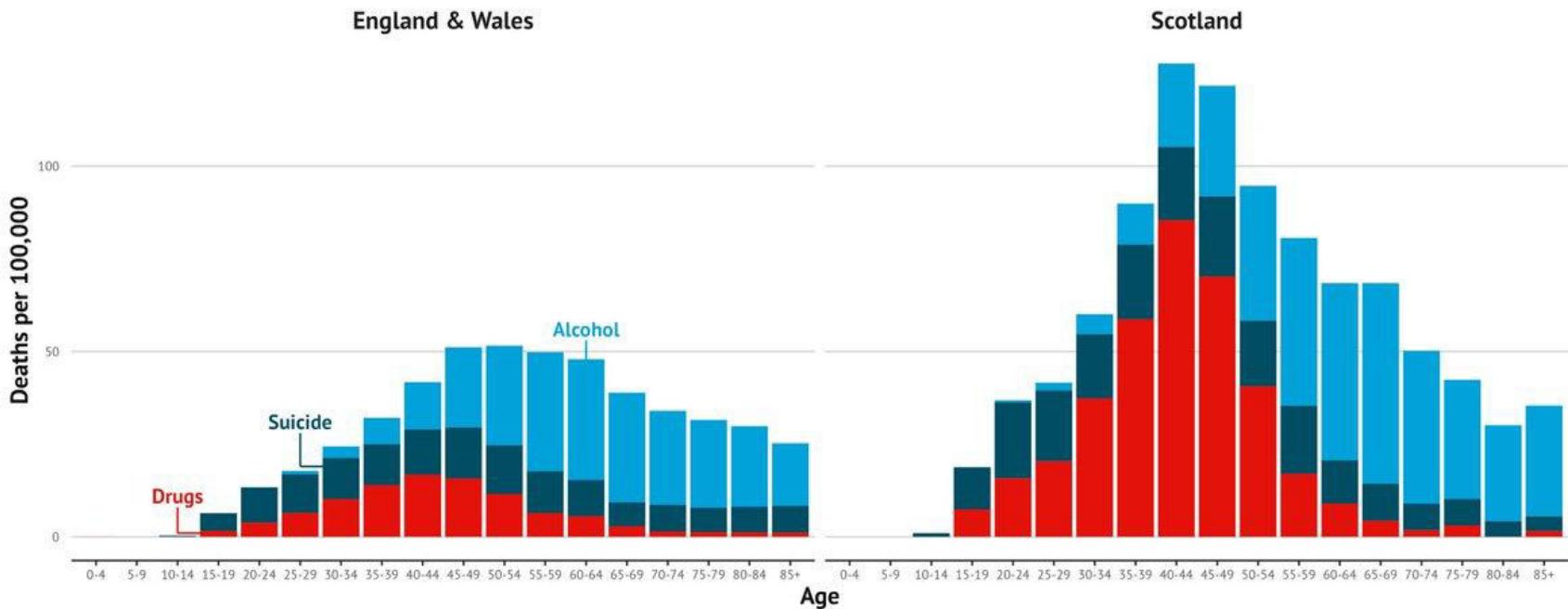


@priyamisner

Comparisons: Mountains by Priya Misner | [Observable Notebook](#) | 595 Likes + 131 Retweets

## Scotland has a drug deaths problem

Deaths from alcohol, suicide and drugs in 2019



Source: ONS & NRS

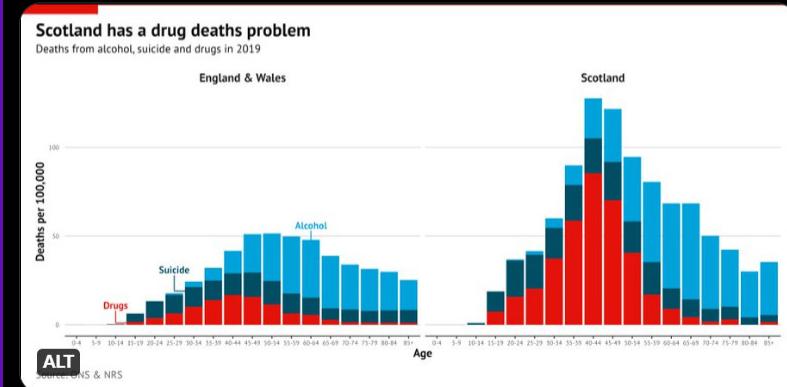


**Colin Angus**  
@VictimOfMaths

...

I posted this graph yesterday as part of the #30DayChartChallenge and a few people have asked some reasonable questions about why I chose to present this data in this way.

So I thought I'd write a thread to explain my thought process...

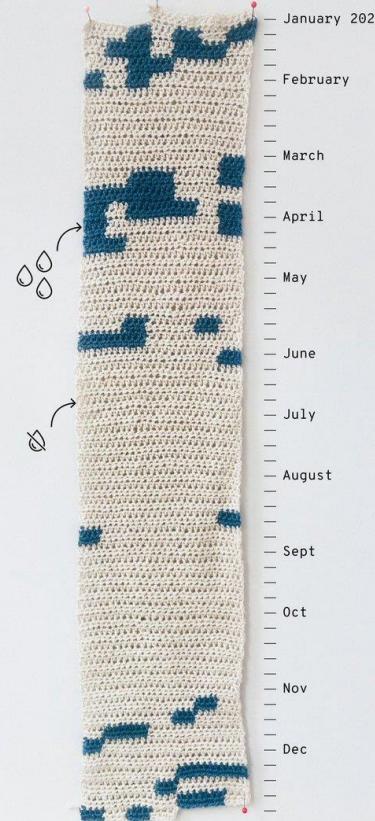


2:35 PM · Apr 13, 2022 · Twitter Web App

100 Retweets 47 Quote Tweets 565 Likes

Distributions: The Economist Theme by Colin Angus | [Thread](#) | 565 Likes + 147 Retweets

# Days it Rained in 2020



@priyamisner

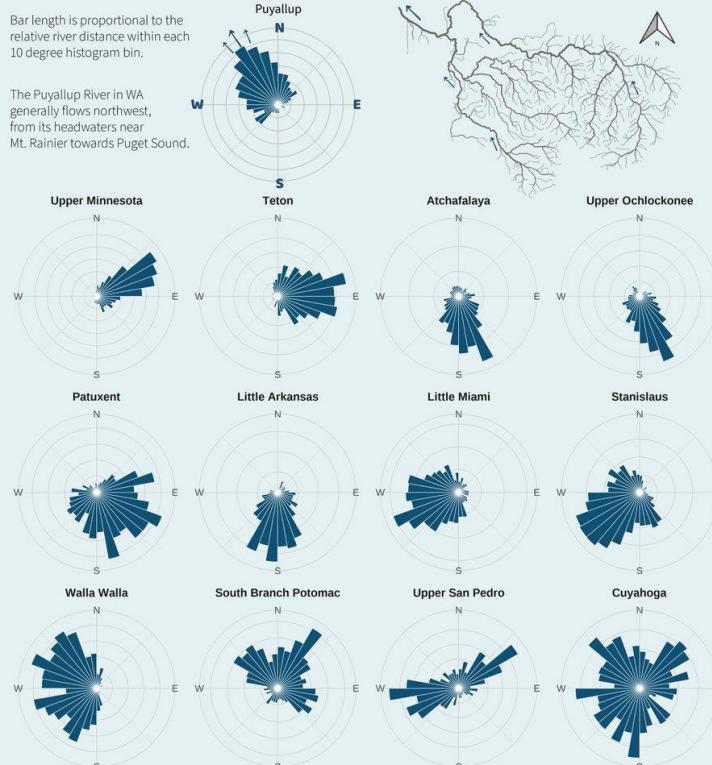
Distributions: Physical by Priya Misner | Knitting | 551 Likes + 73 Retweets

# The way the river flows

The relative distance travelled by flow direction across select U.S. watersheds.

Bar length is proportional to the relative river distance within each 10 degree histogram bin.

The Puyallup River in WA generally flows northwest, from its headwaters near Mt. Rainier towards Puget Sound.



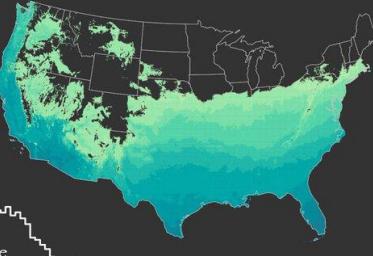
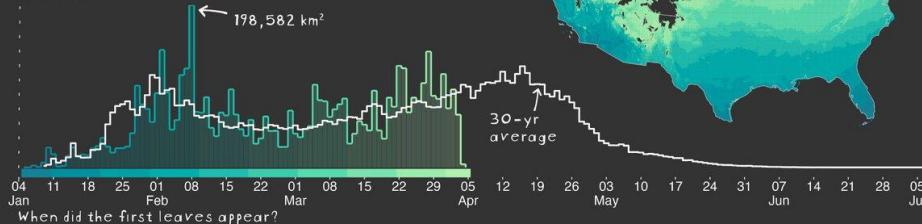
Lauren Koenig, USGS  
Data: USGS National Hydrography Dataset

Distributions: Circular by USGS Data Science (Lauren Koenig) | [Rstats](#) | 532 Likes + 137 Retweets

# Spring has sprung

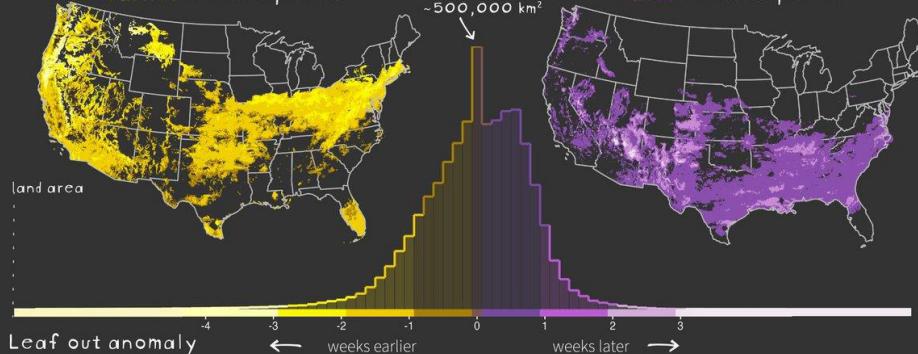
Timing of spring leaf out in the contiguous U.S.  
as of April 4th, 2022

land area



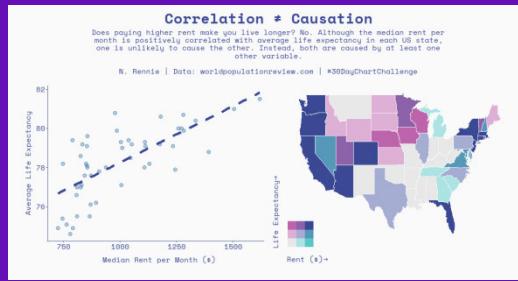
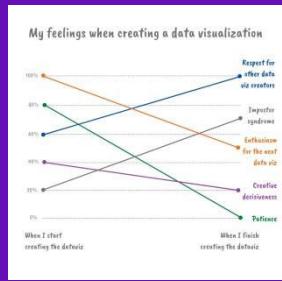
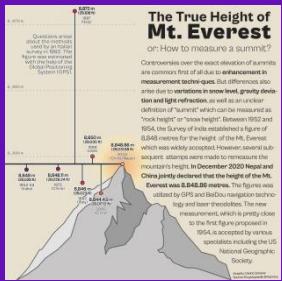
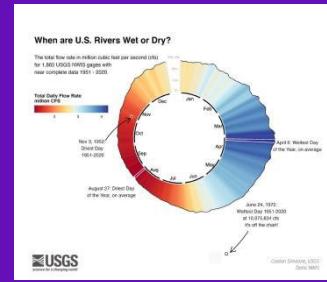
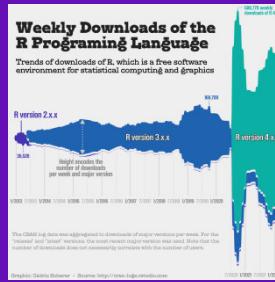
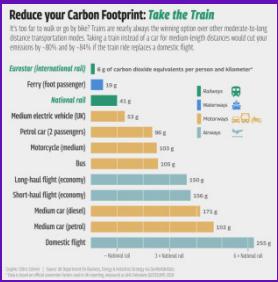
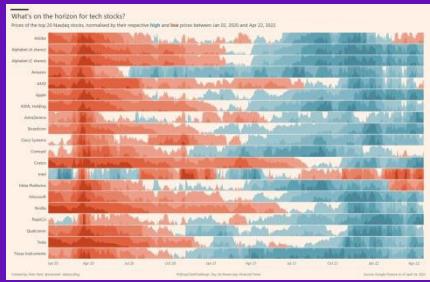
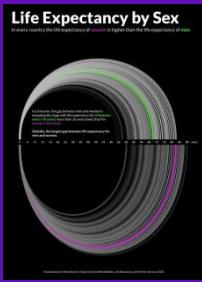
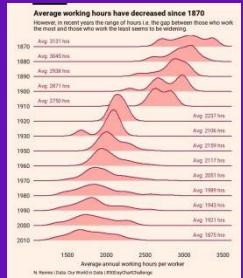
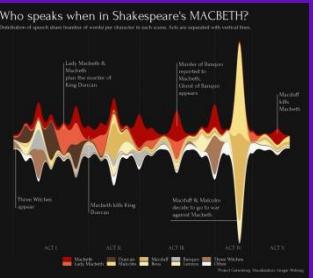
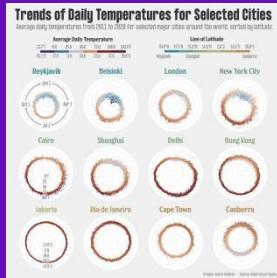
Compared to the 30-year average (1991-2020), **2022 spring leaf out** has been

earlier in some places

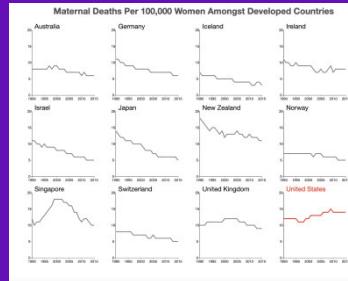
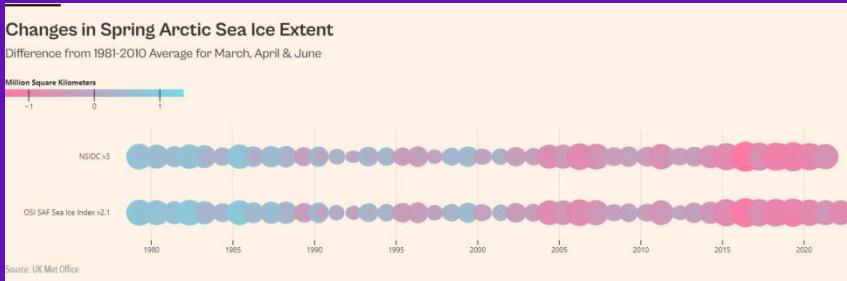
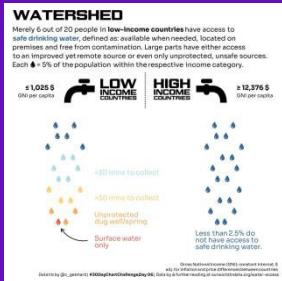
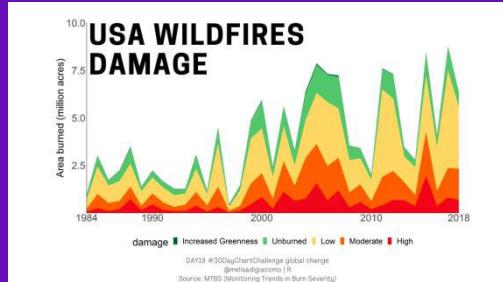
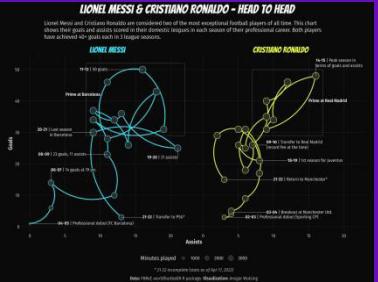
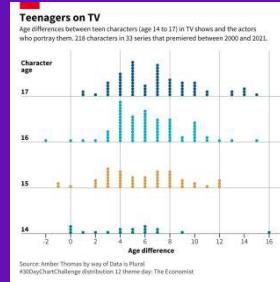
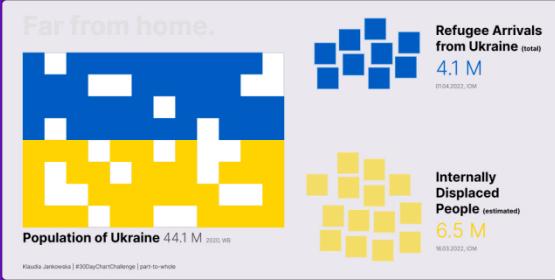
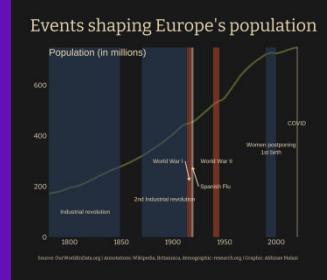
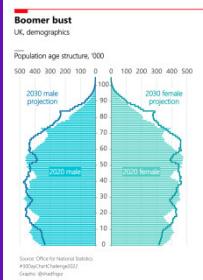
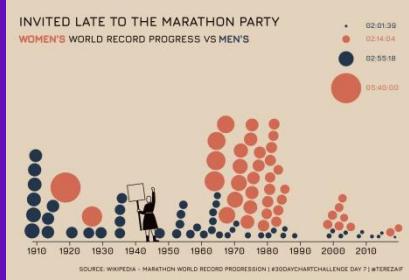


Data: USA National Phenology Network. 2022. First Leaf – Spring Index and Daily Spring Index Leaf Anomaly  
as of 04/04/2022 for the contiguous U.S. USA-NPN, Tucson, Arizona, USA. <http://dx.doi.org/10.5066/F7SN0723>

Comparison: Flora by USGS Data Science (Cee Nell) | [Rstats](#) | 371 Likes + 105 Retweets



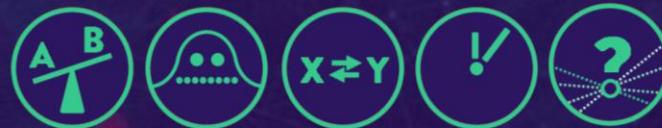
# Ranks 6-20 by Likes



Some Favorite Picks from the #30DayChartChallenge Crew

# The First #30DayChartChallenge

A Summary of Inspiring Contributions, Our Learnings,  
and About the Value of Challenges in General



Dr. Cédric Scherer • Data Visualization Lisboa • May 20 2021

@CedScherer • @DatavisLisboa • #vislis

# THE VALUES AND CHALLENGES OF DATA(VIZ) CHALLENGES

1

**Get out of your comfort zone**

2

**Get inspired, get creative**

3

**Get feedback and support**

4

**Get new friends and connections**

5

**Get the data (ready)**

6

**Get it out!**

@CedScherer  
cedricscherer.com

@30daychartchall  
#30DayChartChallenge

*Thank you!*



# Slides:

[cedricscherer.com/slides/](http://cedricscherer.com/slides/)

Oberservable\_30DayChartChallenge2022.pdf