

Who speaks in The Office?

Speech share by character (inner ring)
and season (outer ring), measured by
the share of spoken words



Bayern is favoured to win the Bundesliga title

I simulated the remaining 5 Bundesliga match weeks 10,000 times to see who wins most often.
The sample of 100 outcomes below provides an indication of the range of scenarios.

Bayern wins
78 in 100



Ties counted for Bayern
given their much better
goal difference

Dortmund wins
22 in 100



Trees of New York City

All tree species by genus with their Latin names.



“Where do you find the time to do all this?”

My personal experience with dataviz challenges



BIO

- 2008-2010
MZES, University of Mannheim
- 2010-2014
nurago / GfK nurago
- 2015-2018
GfK
- Since 2018
 KAISER X LABS

Tools

R / ggplot2

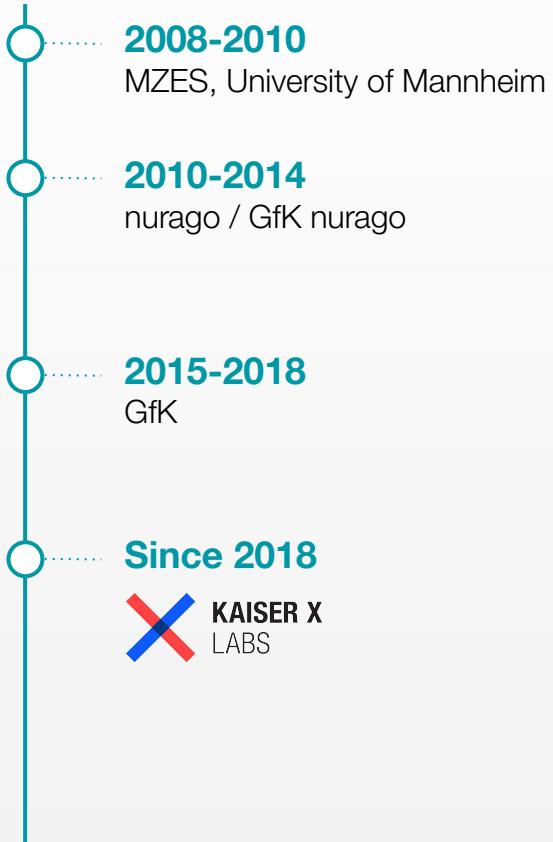
Datawrapper

PowerPoint

Tableau

Flou-
rish

BIO



Tools

R / ggplot2

Datawrapper

PowerPoint

Tableau

Flou-
rish

**POWERPOINT BY DAY,
GGPLOT BY NIGHT**

DATAVIZ CHALLENGES

Social Dataviz Challenges

A **community-driven** event where people create and share data visualizations on **social media** in response to **specific prompts** or themes. Participants engage in collaborative **learning, feedback,** and **networking** within the community.

Industry Awards

Industry awards recognize **outstanding achievements and innovations** in the field of data visualization. They acknowledge individuals, teams, or organizations for their exemplary work in data visualization design.

SOCIAL DATAVIZ CHALLENGES

EXAMPLES

There are more

	#30DayChart Challenge	#30DayMap Challenge	#Makeover Monday	#Tidy Tuesday	#SWD Challenge
Frequency	daily (30 days)	daily (30 days)	weekly	weekly	monthly
Theme	prompt	prompt	chart	topic given	topic given
Data	✗	✗	✓	✓	✗
Tool focus	✗	✗	Tableau	R	✗

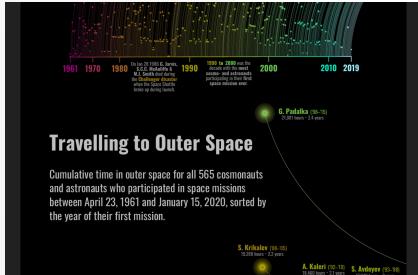
WHAT I APPRECIATE IN DATAVIZ CHALLENGES

Inspiration

Be inspired by what others share

Learn tricks from others

Improve your skills

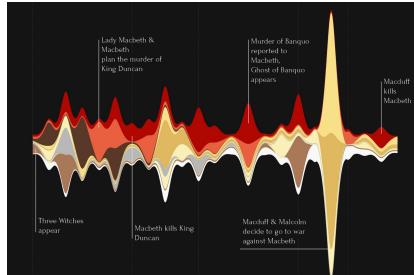


Source: Cédric Scherer ([Github](#))

Experimentation

Get out of your comfort zone

New chart types, tools, topics

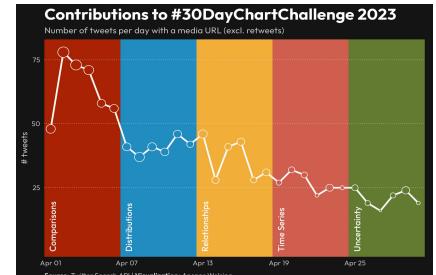


Connections

Connect with like-minded people from across the globe

Feedback & support

Exposure & recognition



#30DayChartChallenge

April 2024



CATEGORIES

Topic

Chart type

Shape

Data source

Style/CI

Comparisons

01. part-to-whole

02. neo

03. makeover

04. waffle

05. diverging

06. OECD
(data day)

Distributions

07. hazards

08. circular

09. major/minor

10. physical

11. mobile-friendly

12. Reuters Graphics
(theme day)

Relationships

13. family

14. heatmap

15. historical

16. weather

17. networks

18. Asian Development
Bank (data day)

Timeseries

19. dinosaurs

20. correlation

21. green energy

22. mobility

23. tiles

24. ILO Region for
Africa (data day)

Uncertainties

25. global change

26. ai

27. good/bad

28. trend

29. black'n'white

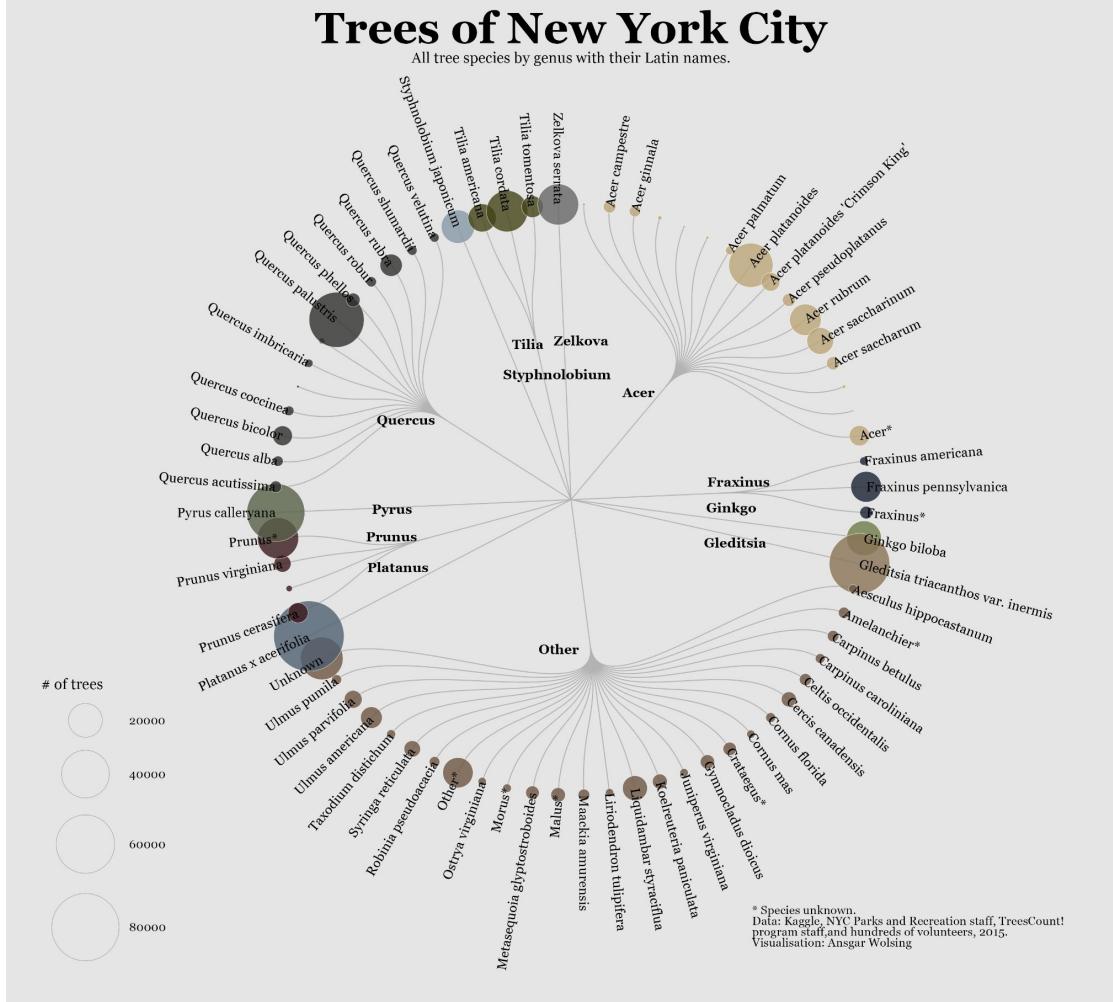
30. FiveThirtyEight
(theme day)

Create a data visualization based on the daily prompt and share your work with the hashtag #30DayChartChallenge

#30DayChartChallenge 2023

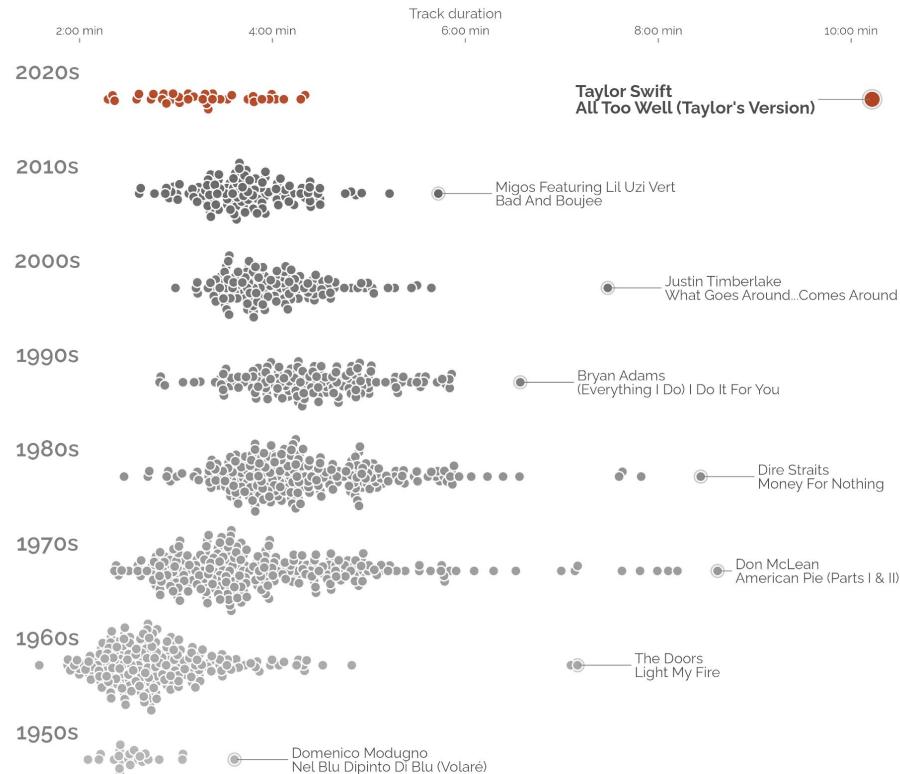
Day 03 | Fauna/Flora

R / ggplot2



"All Too Well" is the Longest Song in U.S. Chart History

Taylor Swift's new version of "All Too Well" is the longest track to ever top the Billboard Hot 100 with a duration of 10 minutes and 13 seconds. The song replaces Don McLean's song "American Pie" (8 minutes and 36 seconds), which became no. 1 on 15 January 1972, after nearly 50 years. Each no. 1 song is a dot. The longest no. 1 song in each decade is highlighted.



#30DayChartChallenge 2022

Day 09 | Statistics

R / ggplot2

#30DayMapChallenge 2022

Day 03 | Polygons

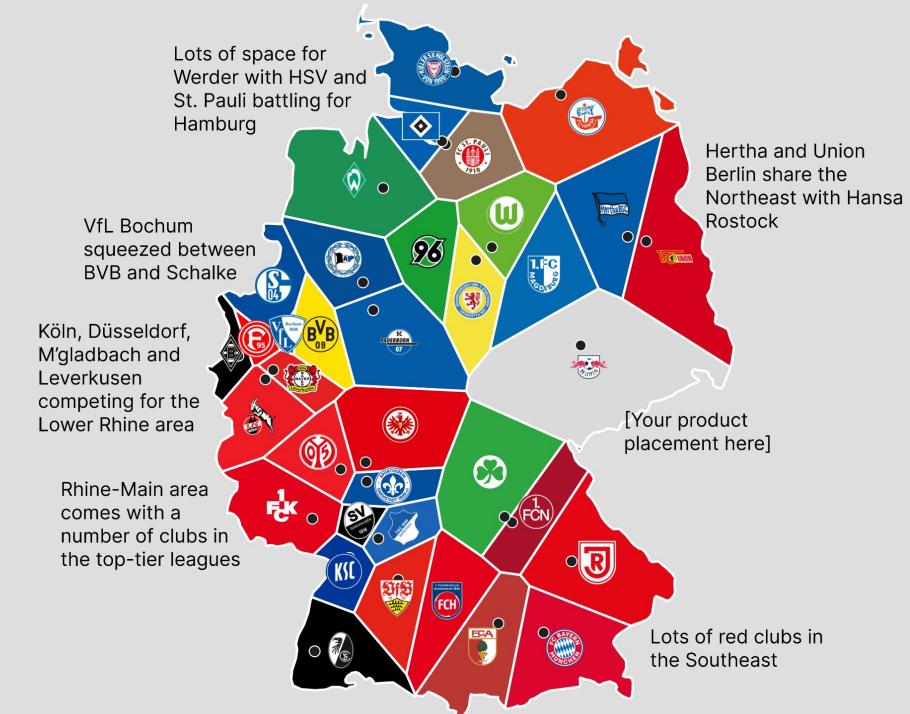
*Easy way out for the
text annotations*

R / ggplot2

Figma

What if everybody supported the football club which is closest to their location?

German Bundesliga and 2nd Bundesliga



Shapefile: Natural Earth, stadium locations: Wikidata. Visualisation: Ansgar Wolsing (adapted from @VictimOfMaths).

#30DayMapChallenge 2023

Day 08 | Africa

R / ggplot2

Africa

The size of the flags indicates the population of the countries (2021)



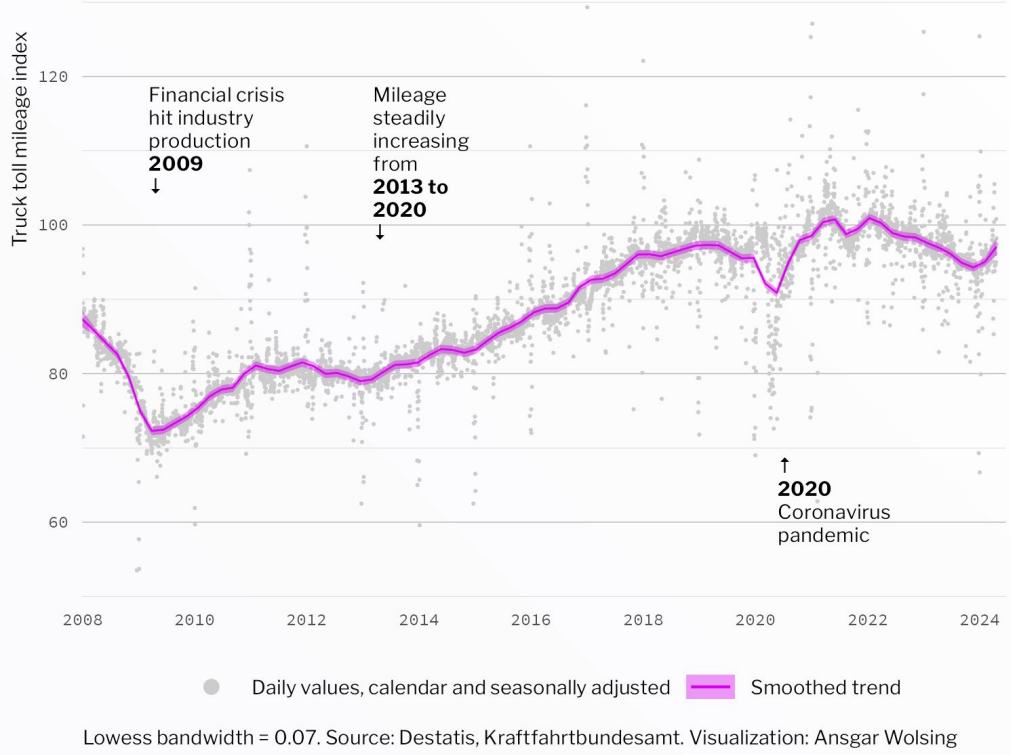
Source: GISCO, Worldbank. Visualization: Ansgar Wolsing

Truck mileage as an early indicator for the development of industrial production

The index is calculated from digital process data from the truck toll collection in Germany and reflects the mileage of trucks (7.5+ tons) on motorways and main roads. Index values are relative to the 2021 average (=100).

#30DayChartChallenge 2024

Day 28 | Trend



R / ggplot2

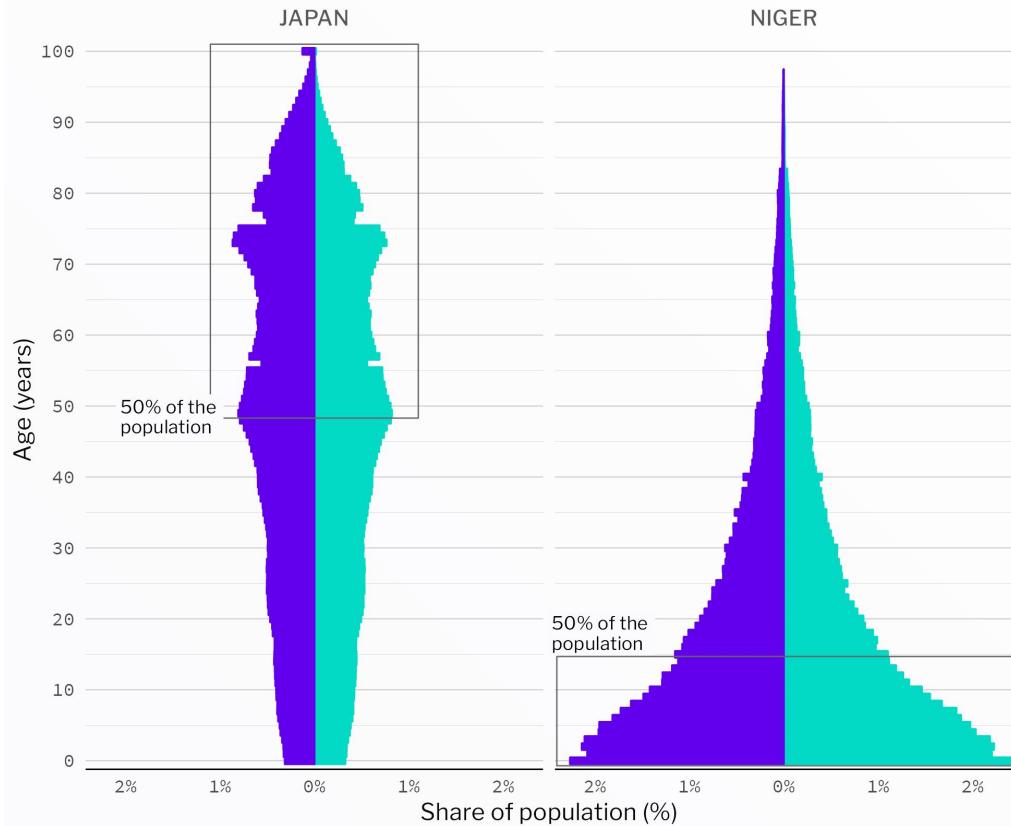
#30DayChartChallenge 2024

Day 05 | Diverging

R / ggplot2

Population pyramids for the countries with the oldest and the youngest population

Share of **female** and **male** population by age



#30DayChartChallenge 2024

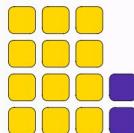
Day 09 | Major/minor

R / ggplot2

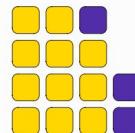
The Beatles Modes

Each box represents a song on an album. The colour indicates whether a song is in a **major** or **minor** key.

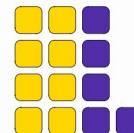
Please Please Me



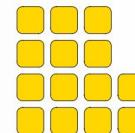
With The Beatles



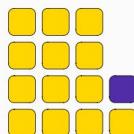
A Hard Day's Night



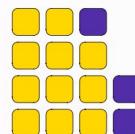
Beatles For Sale



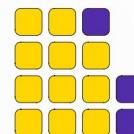
Help!



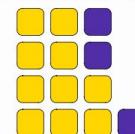
Rubber Soul



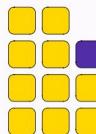
Revolver



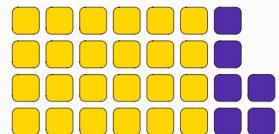
Sgt. Pepper's Lonely
Hearts Club Band



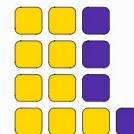
Magical Mystery Tour



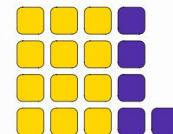
The Beatles



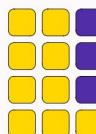
Yellow Submarine



Abbey Road



Let It Be

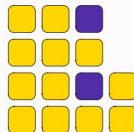


Source: Spotify API. Visualization: Ansgar Wolsing

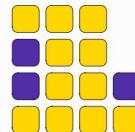
The Beatles Modes

Each box represents a song on an album. The colour indicates whether a song is in a **major** or **minor** key.

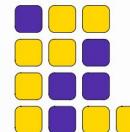
Please Please Me



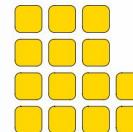
With The Beatles



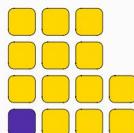
A Hard Day's Night



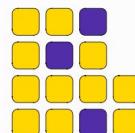
Beatles For Sale



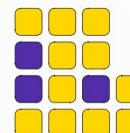
Help!



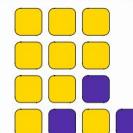
Rubber Soul



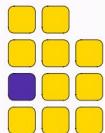
Revolver



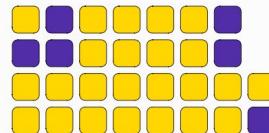
Sgt. Pepper's Lonely
Hearts Club Band



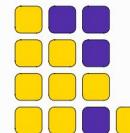
Magical Mystery Tour



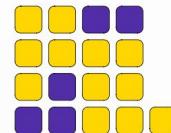
The Beatles



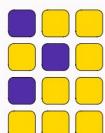
Yellow Submarine



Abbey Road



Let It Be



#30DayChartChallenge 2024

Day 09 | Major/minor

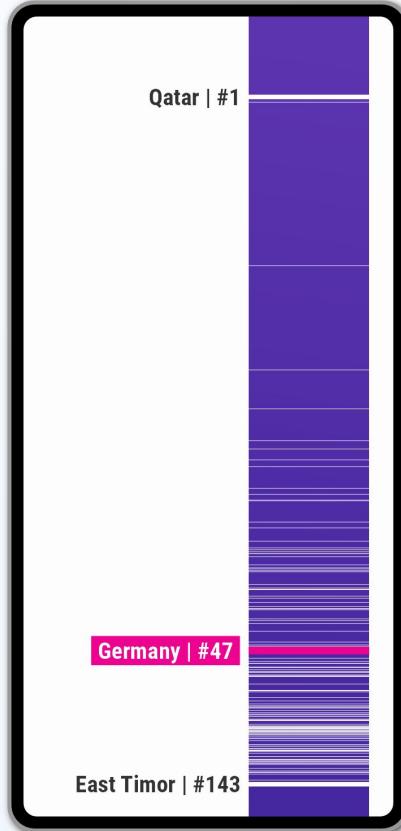
R / ggplot2

Source: Spotify API. Visualization: Ansgar Wolsing

#30DayChartChallenge 2024

Day 11 | Mobile-friendly

R / ggplot2



Mobile internet speed
(Download)

Germany is ranked **47th** out of 143 countries in terms of mobile internet speed (download) based on the Ookla speedtest taken by users.

Source: Ookla Global Speedtest Index™, data from 02/2024.
Visualization: Ansgar Wolsing

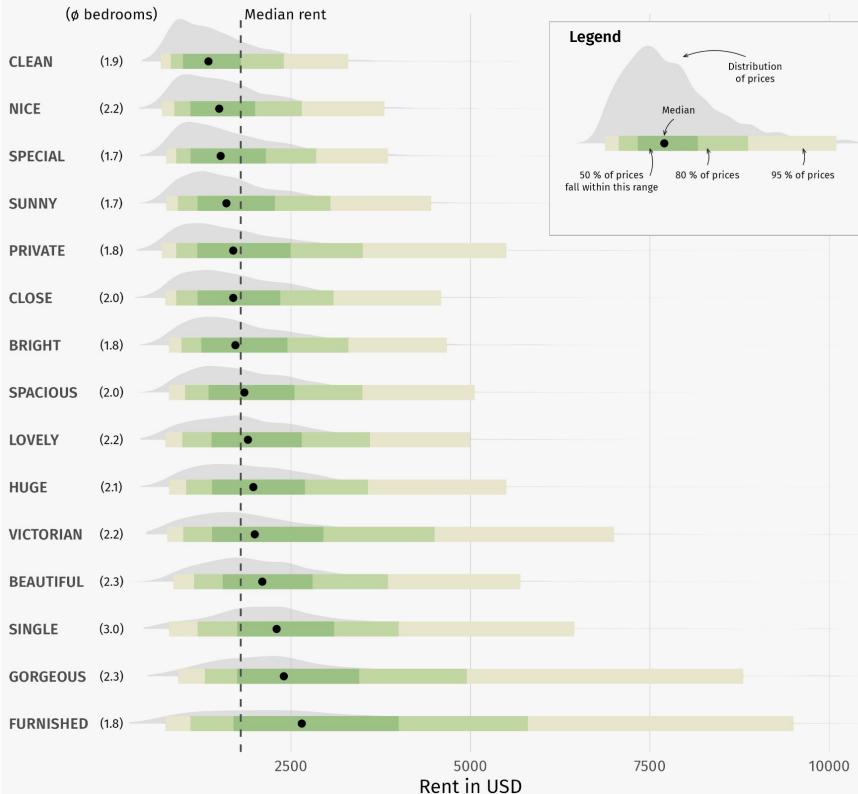
#TidyTuesday 2022

Week 27

R / ggplot2

NICE AND CLEAN - RELATIVELY LOW RENT?

Adjectives used to describe houses and apartments in the San Francisco Bay Area in the titles of rental posts on Craigslist and how they are related to rental prices. Titles from 198,279 rental posts on Craigslist between 2000 and 2018. The 15 most frequent adjectives are shown.



Axis capped at 10,000 USD.

Data: Pennington, Kate (2018). Bay Area Craigslist Rental Housing Posts, 2000-2018.

Retrieved from github.com/katepennington/historic_bay_area_craigslist_housing_posts/blob/master/clean_2000_2018.csv.zip.

Visualization: Ansgar Wolsing

#30DayChartChallenge 2024

Day 04 | Waffle

Figma

R / ggplot2



#30DayChartChallenge 2022

Day 21 | Up/Down

R / ggplot2



Ansgar Wolsing @_ansgar · 21. Apr. 2022

The Price of Gasoline.

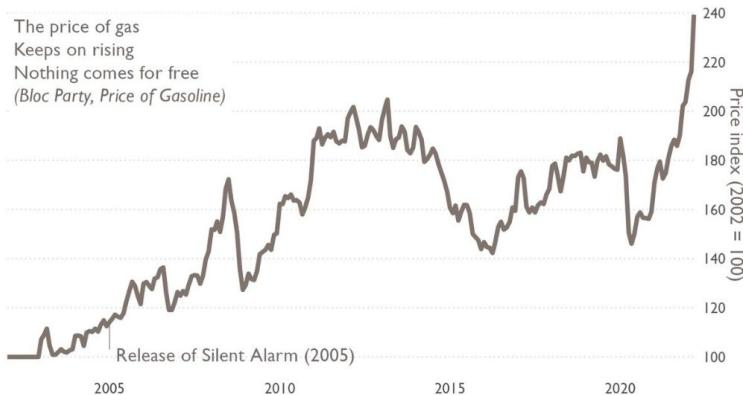
Source: Percentage change over 12 months - Petrol and Oil incl Fuel Oil, National Office for Statistics, UK (definitely an upward trend)

...

[Mehr anzeigen](#)

PRICE OF GASOLINE.

The price of gas
Keeps on rising
Nothing comes for free
(Bloc Party, Price of Gasoline)



Social media Own calculations based on Percentage change over 12 months - Petrol and Oil incl Fuel Oil, National Office for Statistics, UK
Visualization: Ansgar Wolsing

#30DayChartChallenge 2022

Day 21 | Up/Down

R / ggplot2

Bloc Party
BLOC PARTY
@BlocParty

...

Is that a fact?



Ansgar Wolsing @_ansgar · 21. Apr. 2022

The Price of Gasoline.

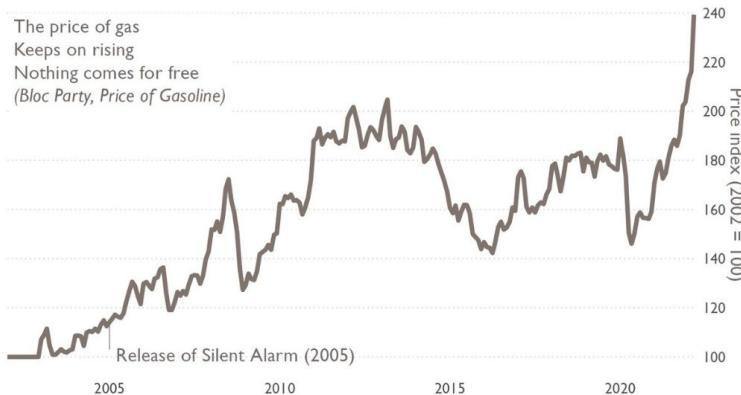
Source: Percentage change over 12 months - Petrol and Oil incl Fuel Oil, National Office for Statistics, UK (definitely an upward trend)

...

[Mehr anzeigen](#)

PRICE OF GASOLINE.

The price of gas
Keeps on rising
Nothing comes for free
(Bloc Party, Price of Gasoline)



Song lyrics: Own calculations based on Percentage change over 12 months - Petrol and Oil incl Fuel Oil, National Office for Statistics, UK

4:03 nachm. · 21. Apr. 2022

12

57

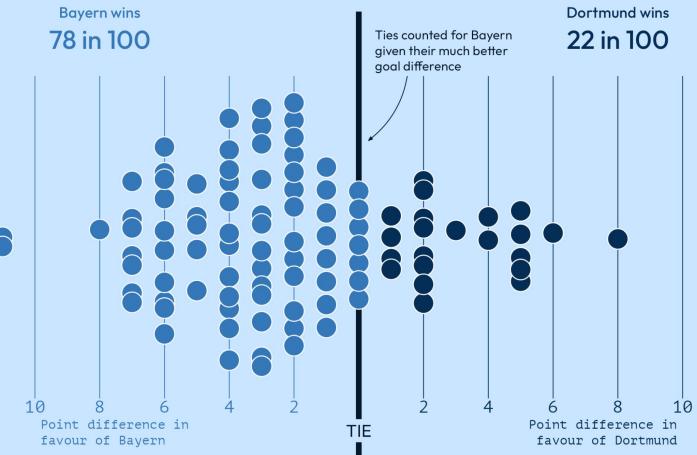
395

3

↑

Bayern is favoured to win the Bundesliga title

I simulated the remaining 5 Bundesliga match weeks 10,000 times to see who wins most often.
The sample of 100 outcomes below provides an indication of the range of scenarios.



#30DayChartChallenge 2023

Day 29 | Monochrome

R / ggplot2

spiegel.de
Matthias Stahl
(13.05.2023)

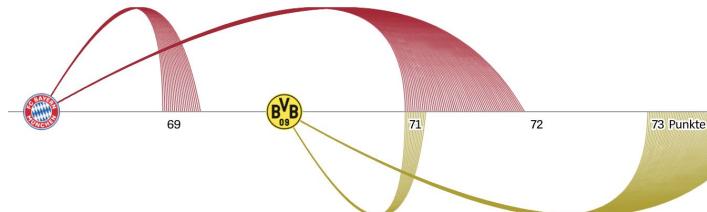
≡ SPIEGEL Sport



Knappes Rennen

100 Simulationen: So viele Punkte können die Vereine am letzten Spieltag noch erreichen – und so wahrscheinlich ist die Meisterschaft für sie.

Der FC Bayern wird in 18 von 100 Simulationen Meister.



Borussia Dortmund wird in 82 von 100 Simulationen Meister.

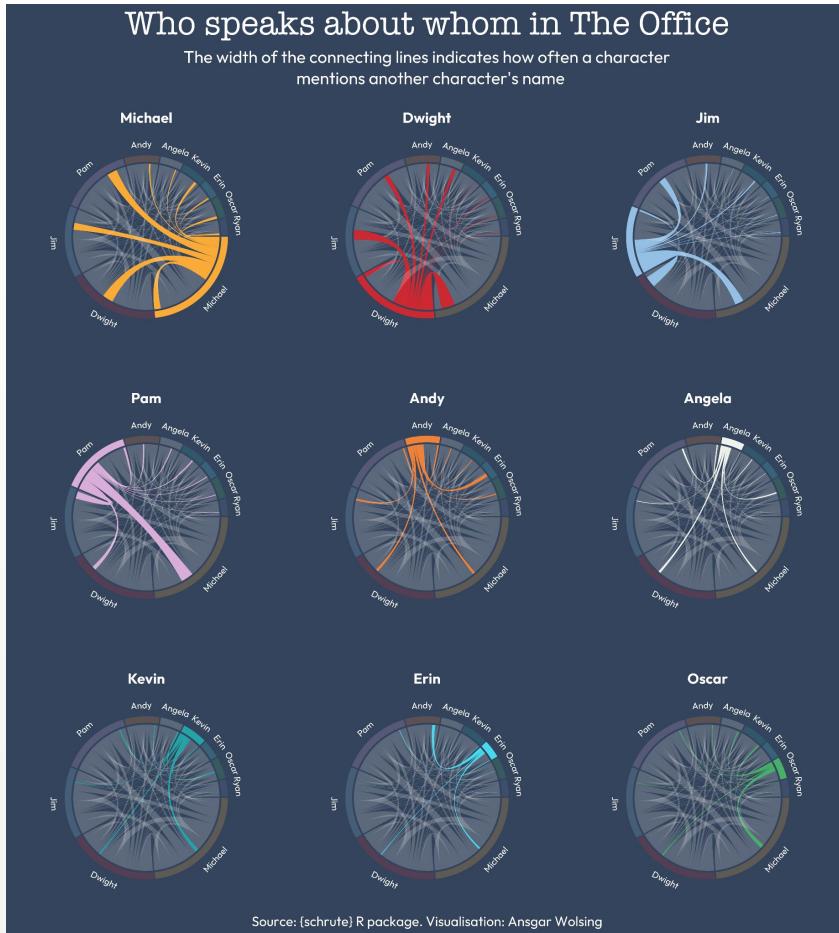
• Quelle: »FiveThirtyEight«, eigene Berechnungen adaptiert von Ansgar Wolsing; bei Punktegleichheit wird die Meisterschaft aufgrund des besseren Torverhältnis dem FC Bayern zugeschlagen; Stand: 21. Mai



#30DayChartChallenge 2023

Day 17 | Network

R



Ansgar Wolsing (he/him) • You
Director Data & Analytics @ Kaiser X Labs | Data Visualization, Data ...
9mo •



Data Visualization Society

145,861 followers

9mo •

10 days left until Information is Beautiful Awards 2023 submissions close! Enter your work or encourage friends, co-workers, and people you admire to enter. <https://lnkd.in/gj5wmuBB> ...see more



2

4 comments



Like



Comment



Repost

Send



Add a comment...

Smiley face icon



Dr. Niels Ohlsen (He/Him) • 1st
Data Scientist at GC-Gruppe

10mo ...

Like · 1 | Reply

A	B	C	D	E	F
Day	Category	Idea 1	Idea 2		
<input checked="" type="checkbox"/>	1 Points	Weather stations in Germany as points on a map, coloured by the monthly temperature records broken			
<input checked="" type="checkbox"/>	2 Lines	London Underground map - with glow.	"The Northern Line is the loudest" - Air pollution in London, Rail: Noise Pollution in London - London Datastore		
<input checked="" type="checkbox"/>	3 Polygons	Buildings in Cologne, colored by build year, facet			
<input checked="" type="checkbox"/>	4 A bad map	A map of Germany with all settlements named "Bad...". Data source: German accidents (e.g. air traffic) names at https://www.karto.de . Labels resemble the shape of Germany			
<input checked="" type="checkbox"/>	5 Analog map	Brötchen			
<input checked="" type="checkbox"/>	6 Asia	Dorling cartogram of countries, area by population			
<input checked="" type="checkbox"/>	7 Navigation	Clubs in Bundesliga travelling, who has the longest and the shortest total travel distance			
<input checked="" type="checkbox"/>	8 Africa	Dorling cartogram of countries, area by population			
<input checked="" type="checkbox"/>	9 Hexagons	Steuern https://regionalatlas.statistikportal.de/	ThemenGebiet und FlächeFlächennutzung nach ALB https://regionalatlas.statistikportal.de/		
<input checked="" type="checkbox"/>	10 North America	Population density of Canada --> Kontur	Dorling cartogram FIFA World Cup 2026 - USA, Canada, Mexico - number of matches played in World Cups. Dataset: https://github.com/jfjelstul/worldcup		
<input checked="" type="checkbox"/>	11 Retro	Miami Vice colours, Bertin style using the {bertin} package			
<input checked="" type="checkbox"/>	12 South America	Brazil population density	Dorling cartogram of countries, area by population		

COLLECT IDEAS
& PLAN AHEAD

KINDERGARDENS IN COLOGNE, GERMANY

Locations of private and public kindergartens and day care centers



Data: Open Data Cologne | last update: 2022-10-29 | OpenStreetMap | Visualization: Ansgar Wolsing | Image credit: Cologne Cathedral John3 hopping.com

BUILDINGS OF COLOGNE

50°56'24"N, 6°57'36"E



Data: Open Data Cologne | last update: 2022-10-29 | OpenStreetMap contributors | Visualization: Ansgar Wolsing

Housing space in Cologne

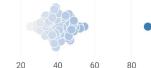
Average floor area per person (m^2)

30 40 50 60 70 80

The floor area per person is a key indicator of dwelling comfort. The average housing space in Cologne is **39.6 m^2** per person, but varies a lot between districts.

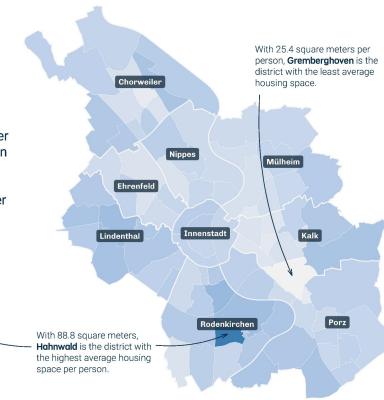
Boroughs are labelled for better orientation.

Distribution



Data: Stadt Köln (Shapes; Stadtteilinformation 2020, pp. 52-53) | Visualization: Ansgar Wolsing

With 25.4 square meters per person, **Gremberghoven** is the district with the least average housing space.



With 88.8 square meters, **Höhenwald** is the district with the highest average housing space per person.

Zoning Plan Cologne

A zoning plan is issued by the municipal authorities and provides guidelines on how a particular area can be used. It determines where housing, businesses, agricultural and commercial uses may be established. This plot shows selected land use categories.

AGRICULTURE

TRANSPORT

INDUSTRY

FORESTRY

GREEN URBAN AREA

RESIDENTIAL

Residential area

Social residential area

Railroad facilities

Airport

Green urban area

Forresty, recreational forest

Forresty with special use

Business park

Source: Municipality of Cologne, released 2016, last update 2021 | Visualization: Ansgar Wolsing

Mer stonn zo dir, FC Kölle*

Nearest (semi)-professional football teams' grounds to every point in Cologne



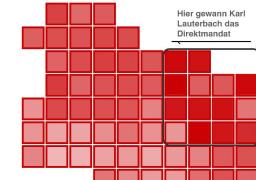
*Translation: We stand by you, FC Kölle.

Data: OpenStreetMap | Visualization: Ansgar Wolsing | Images credits: Wikipedia, the respective clubs

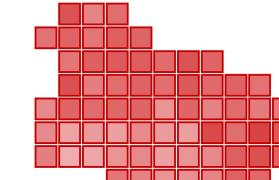
Stimmenanteile der SPD in den Kölner Stadtteilen bei der Bundestagswahl 2021

Jede Kachel repräsentiert einen Kölner Stadtteil. Je stärker die Färbung einer Kachel, desto höher der Stimmenanteil der SPD in diesem Stadtteil.

Erststimmen



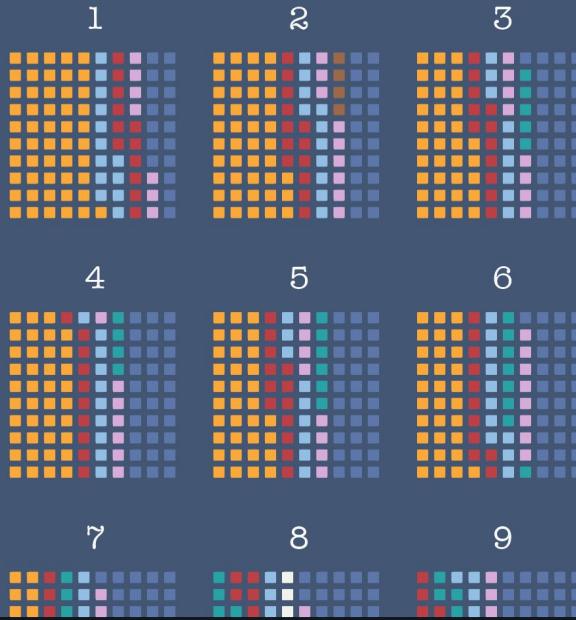
Zweitstimmen



FOCUS ON A TOPIC

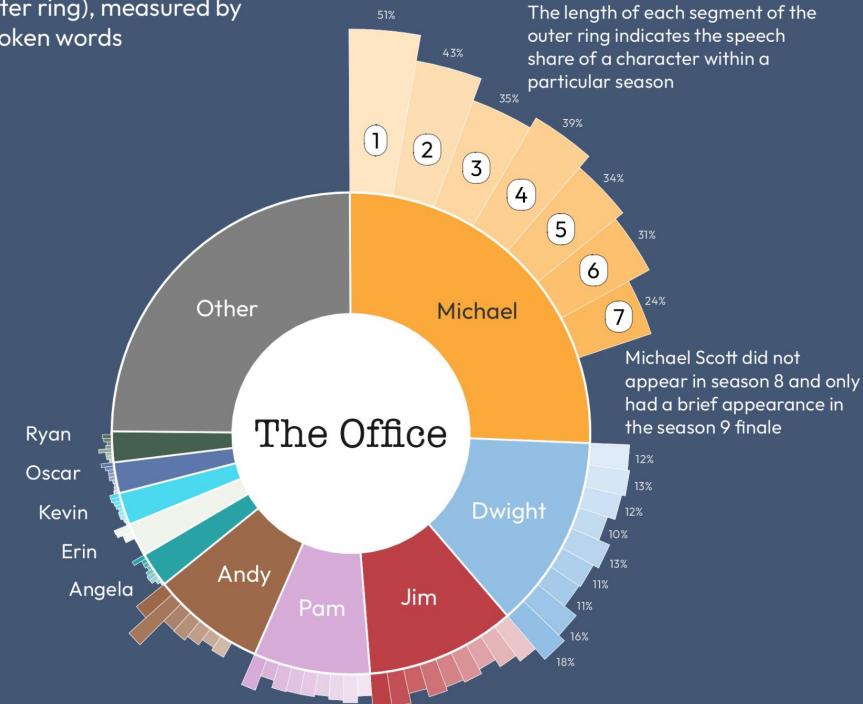
Who speaks in The Office?

The proportion of words spoken by characters in The Office by season (word count). Characters with the highest proportion of words per season are shown.



Who speaks in The Office?

Speech share by character (inner ring) and season (outer ring), measured by the share of spoken words

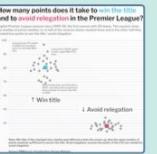
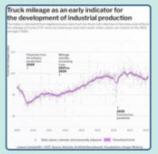
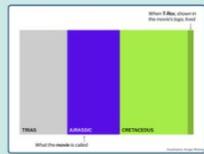
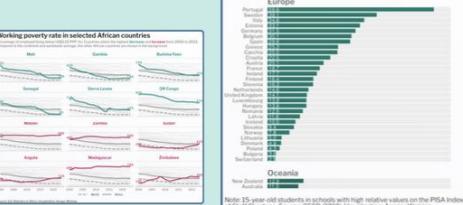
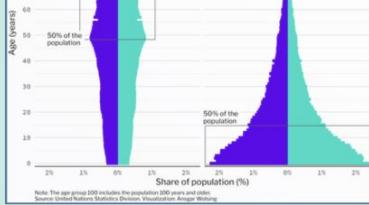
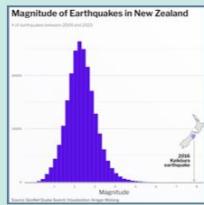
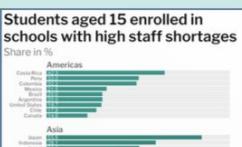
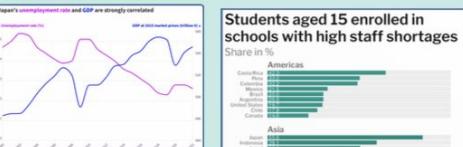
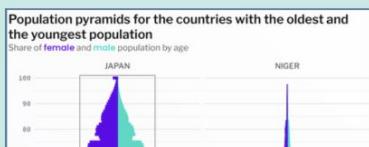
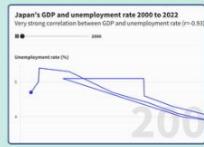
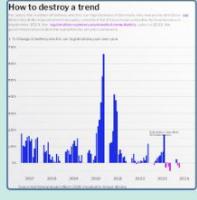
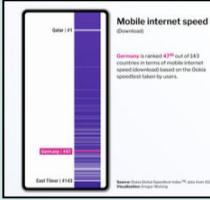
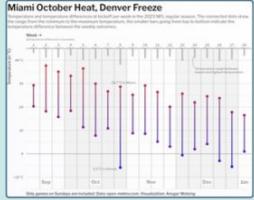
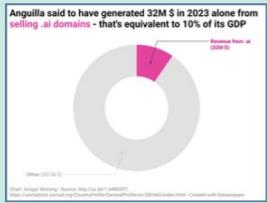


Source: {schrute} R package. Visualisation: Ansgar Wolsing

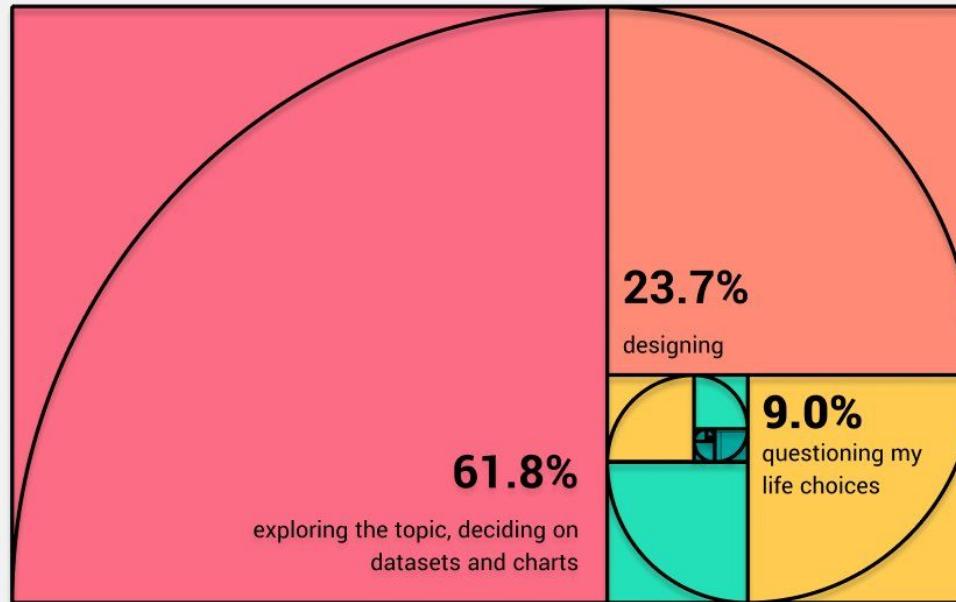
RE-USE DATASETS

Data: {schrute} R package. Visualisation: Ansgar Wolsing

RE-USE THEMES & COLOURS



Golden ratio of shaping a viz



Klaudia Jankowska
#30DayChartChallenge 2021
([Twitter](#))

MAKE THE MOST OF YOUR PARTICIPATION



**Share your work if you
feel comfortable with it**

Participate with your own tempo

Get inspired by the work of others

Don't neglect data understanding and data integrity



CONTACT



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bydata



/in/ansgar-wolsing/
