

Data Visualization

EXAMPLES (2)

Tea Tušar, Data Science and Scientific Computing, Information retrieval and data visualization

Good visualization design is

1. Trustworthy

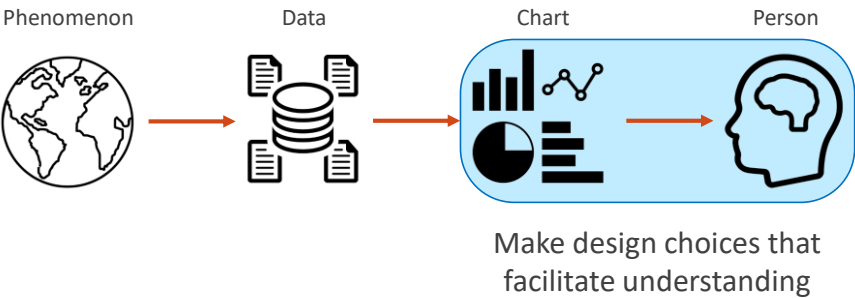
2. Accessible

3. Elegant

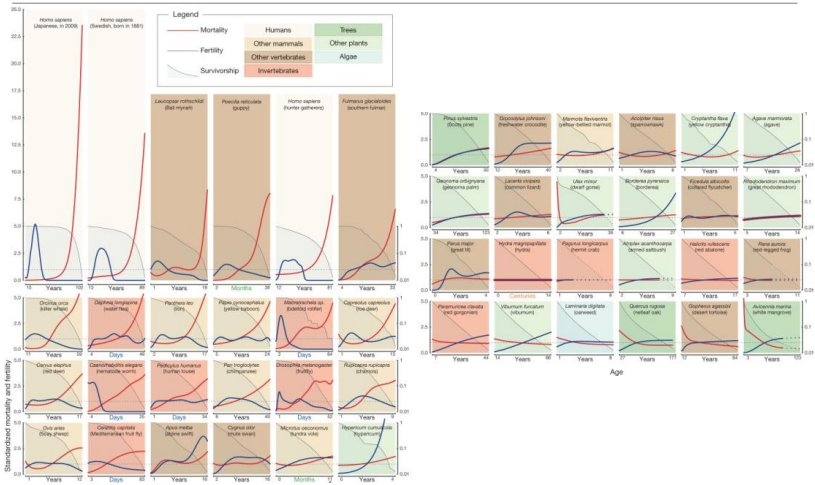
A. Kirk. *Data Visualization*, SAGE Publications, 2016.

2

Accessibility

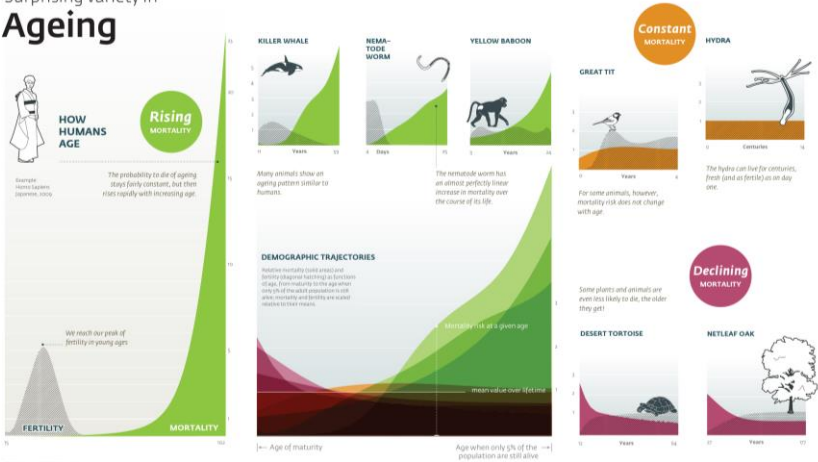


Diversity of ageing



Diversity of ageing (redesign)

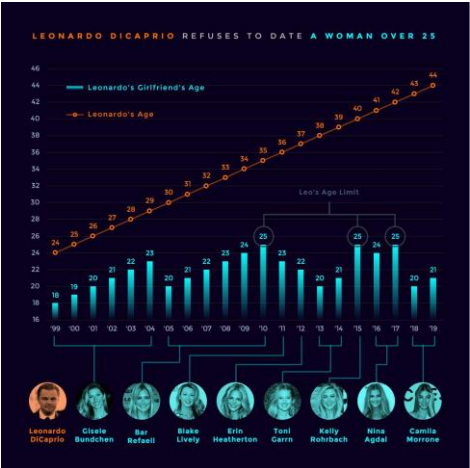
Surprising variety in
Ageing



<http://truth-and-beauty.net/projects/mpg-graphics>

5

Leonardo DiCaprio's girlfriends

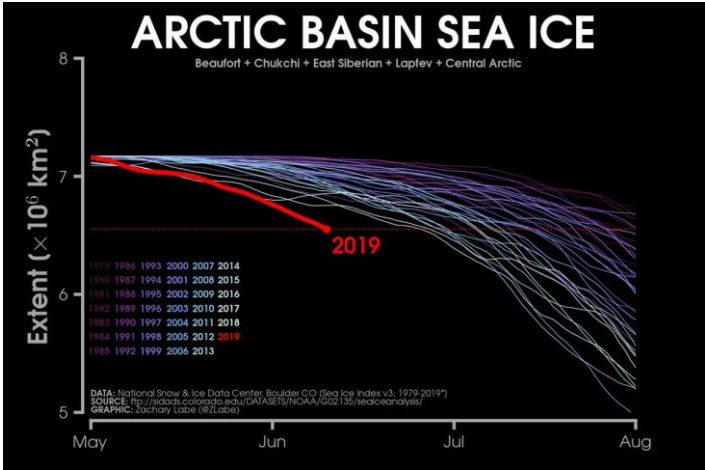


Made in
MS Excel!

https://www.reddit.com/r/dataisbeautiful/comments/aziti7/leonardo_dicaprio_refuses_to_date_a_woman_over_25/

6

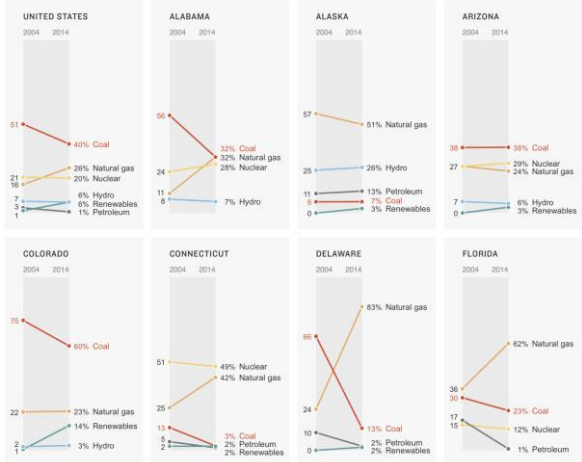
Extent of sea ice



<https://twitter.com/zlabe/status/1138831331679358979?s=12>

7

Electric power generation

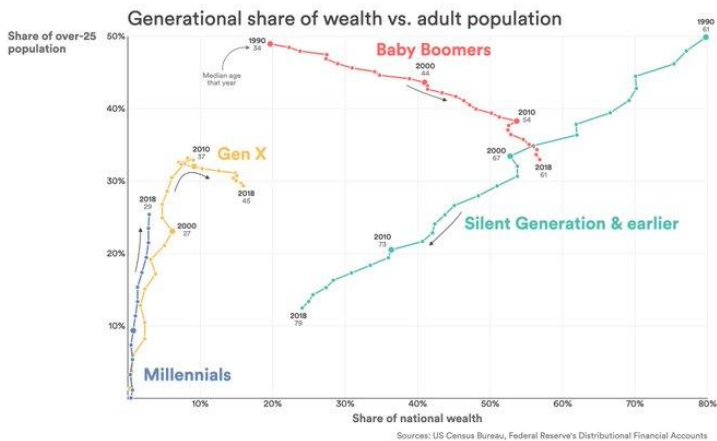


Slope
graph

<https://www.npr.org/2015/09/10/319535020/coal-gas-nuclear-hydro-how-your-state-generates-power?t=1574117463924>

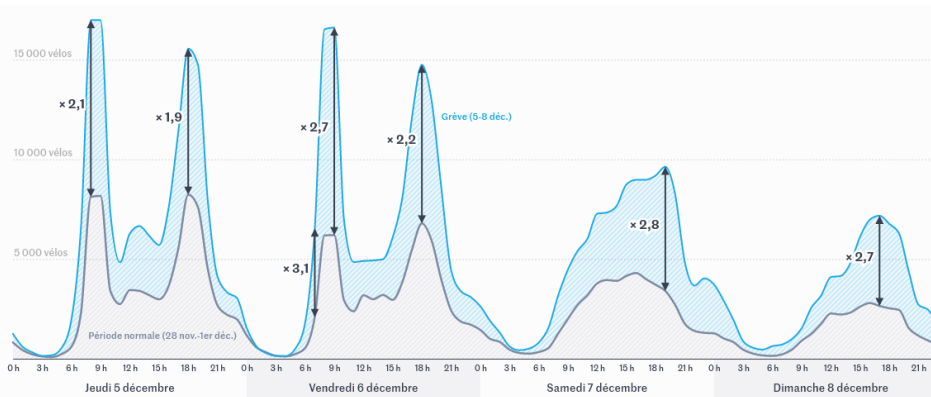
8

Generational share of wealth vs. adult population



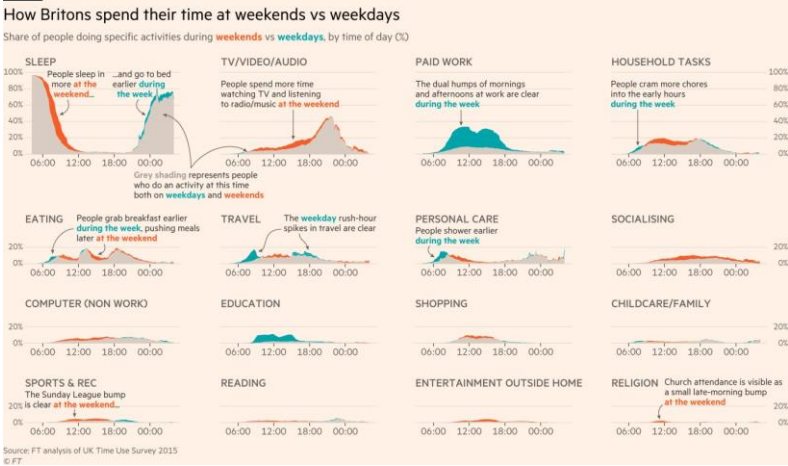
<https://twitter.com/veltman/status/1201567824168308739?s=20>

Impact of transport strike on use of bikes



https://www.lemonde.fr/les-decodeurs/article/2019/12/09 greve-des-transports-la-frequentation-des-pistes-cyclables-a-explose-a-paris_6022246_4355770.html

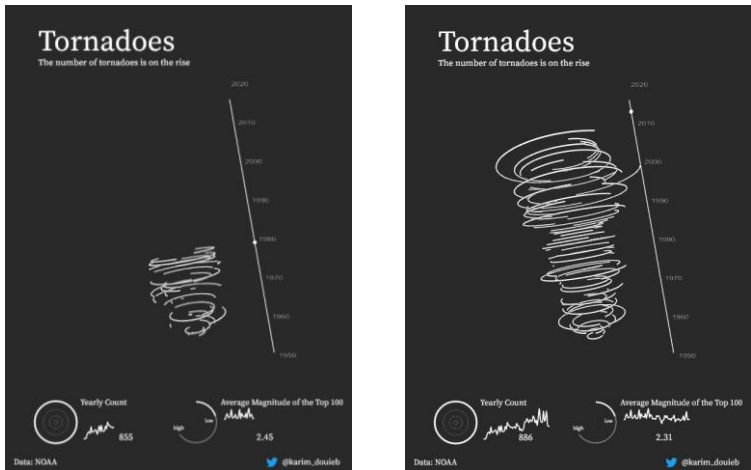
How Britons spend their time at weekends vs weekdays



<https://www.ft.com/content/085749dc-3cac-11ea-b232-000f4477fbca>

11

Tornadoes



<https://observablehq.com/@karimdouieb/tornadoes>

12

To achieve accessibility

General guidelines

- Keep in mind
 - The audience
 - The presentation format
 - The specifics of the data
 - **The message**
- Strive for clarity, minimize clutter
- Take into account human visual processing abilities
 - Careful choice of colors
 - Use annotation
- Use uncommon charts only if they are “worth it”

13

To achieve accessibility

Design process guidelines

- Try different visualizations
- Show your visualizations to a friend—are they able to get to the message?

14