





Hello!

My name is Sophie Warnes

Senior data journalist

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Slide deck: bit.ly/SWPorto





- Convince you that there is a problem
- Give you some ideas for how to solve it
- ...And show great examples of current work!















One in four

do not feel confident using maths

National Numeracy (YouGov survey)





could answer 3 basic maths questions

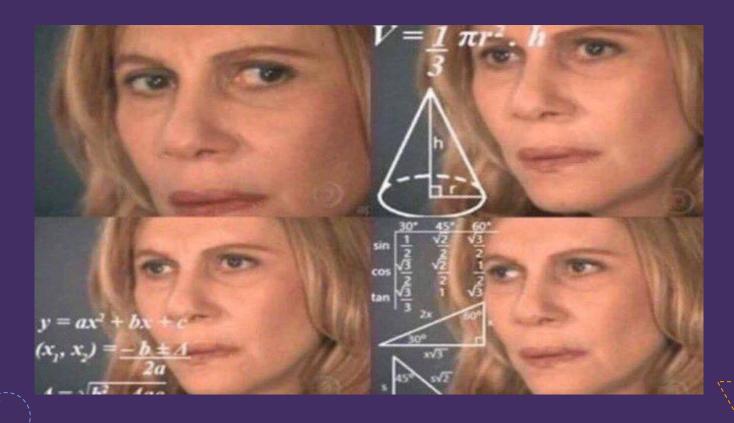
National Numeracy (YouGov survey)

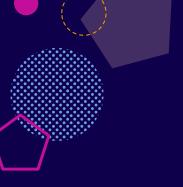


One in four

do not understand their payslip

Chartered Institute of Payroll Professionals













It is in the combination of words and visuals that the magic of understanding often happens

> Alberto Cairo, author and Knight Chair in Visual Journalism





- Humans have been telling each other stories for centuries. It's how we connect to each other!
- It is much easier to understand a narrative
- It's also easier to remember and to tell others about a story as opposed to just numbers



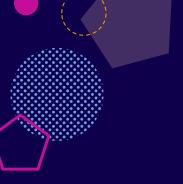


Finding the right angle. Ask yourself...



- What is the most surprising thing about your research or your data?
- Can you imagine people talking about it in the pub? What words would they use? (Not technical!)
- Can you add a human perspective to it?













Data vis for mass audiences



1. Pick the most important stories and relationship/s in your data

2. Pick the right chart to show it

- 3. Don't be afraid to editorialise charts
- 4. Annotation is VERY helpful for complex charts!

Some relationships and chart types...



Deviation

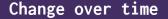
Diverging bars Surplus/deficit lines

Correlation

Scatterplots
Bar and line charts

Distribution

Histogram Dot plot Beeswarm



Line chart Column chart Slope chart

Part-to-whole

Pie charts (ARGH) Marimekko Tree map

Spatial

Choropleth maps
Cartograms





Which chart? The FT Visual Vocabulary = awesome













Part-to-whole

































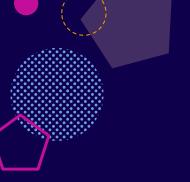


There are so many ways to visualise data - how do we know which one to pick? Use the categories across the top to decide which data relationship is most important in your story, then look at the different types of chart within the category to form some initial ideas about what might work best. This list is not meant to be exhaustive. oformative and meaningful data visualisations





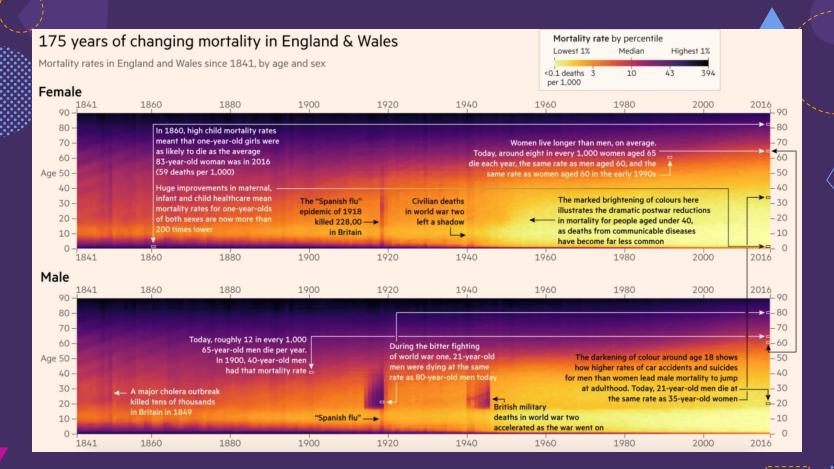


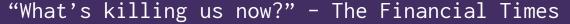






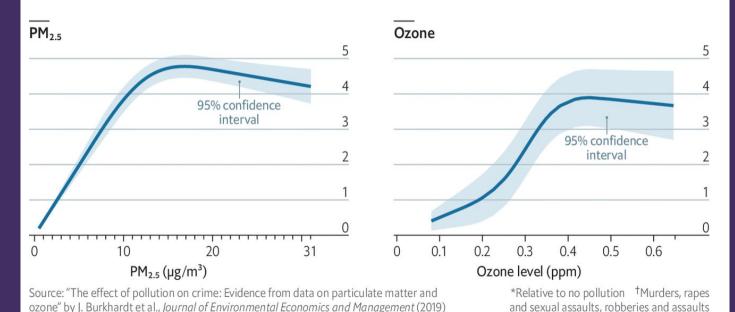






Soot to kill

United States, air pollution and associated increase* in violent crime†, %



The Economist

"Exposure to air pollution is linked to an increase in violent crime" - The Economist









More good examples of presenting complex data to the public

"Those Hurricane Maps Don't Mean What You Think They Mean" - NYT (Alberto Cairo)

"The Birthday Paradox" - The Pudding

"Google rewards reputable reporting, not left-wing politics" - The Economist

"Quiz: Let Us Predict Whether You're a Democrat or a Republican" - NYT



I write a newsletter about this stuff!



Fair Warning

By Sophie Warnes

A weekly newsletter with anywhere between 10 and 20 links about data journalism, data visualisation, and storytelling, curated by a British data journalist and nerd. Expect politics, statistics, society and culture all through the frame of data... With a dash of whimsy.

Read more about the author at www.sophiewarnes.com.

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Any questions?

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