



Data Visualisation and Infographics for Beginners

DISCOVER. LEARN. ANALYSE. SHAPE. REPEAT



Quick warm-up...

Grab your paper and pen

Close your eyes

Draw a camel





Our mission is to help you unlock the value of your data.





What we'll cover today



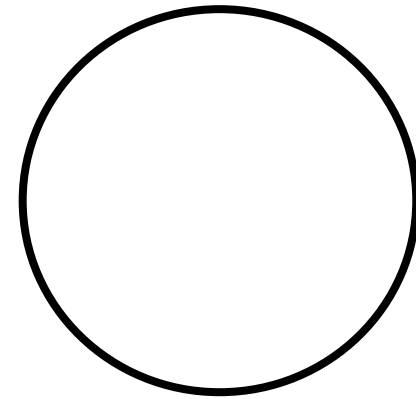
- ✓ What is data visualisation?
- ✓ Why it matters
- ✓ When it's right (and wrong)
- ✓ How to create them
- ✓ Where will we share them

Quick task: image versus text

Textual description

A curved line with every point equal distance from the centre

Graphic description



I'm going to give you to the
count of 5 to count the 5s...



348478745875635889892
745990022945990920994
929594903909049737397
878378587378782746473
849209458928848980029
097365388288920678930



How many 5s did you see?
Write in chat



34847874**5**8776388898

9274**5**99002294**5**99092

099492909490390904

9797397878378873787

8**5**27464**5**38492094489

288489800290973388♠



How many 5s did you see?
Write in chat





WHAT IS...



a data visualisation?

**What are your
thoughts?**

A data visualisation is...

“Data visualization is the practice of translating information into a visual context, such as a map or graph, to make data easier for the human brain to understand and pull insights from” [Tech Target Network](#)

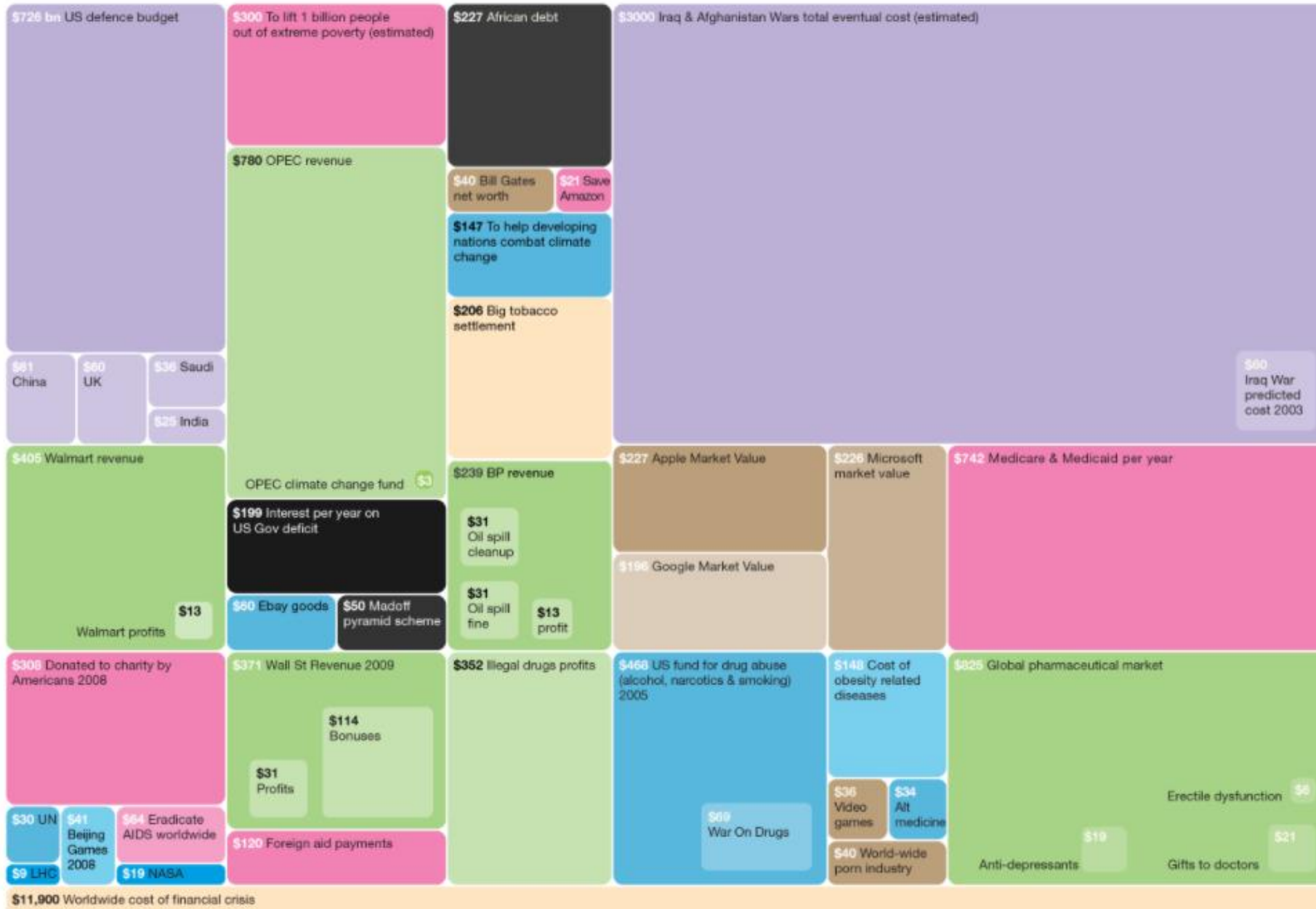
Making it easier to identify patterns, trends and outliers in large data sets.



The Billion Dollar-o-Gram

● Giving
 ● Spending
 ● Fighting
 ● Accumulating
 ● Owing
 ● Losing
 ● Earning

*Estimated



Information is Beautiful



What types of data visualisations are there?

- ✓ Charts & graphs
- ✓ Tables
- ✓ Wordclouds
- ✓ Timelines
- ✓ Diagrams e.g. Tree, Venn
- ✓ Maps
- ✓ Dashboards
- ✓ Infographics



Data viz versus infographics

- ✓ Objective versus subjective?
- ✓ Infographics can contain multiple data visualisations
- ✓ Infographics have a narrative

Like the flow of any great story, a great infographic contains a beginning, a middle and an end, with an overarching narrative that makes the reader continue all the way to the bottom

Freddie Ossberg
Raconteur Media's founder and CEO



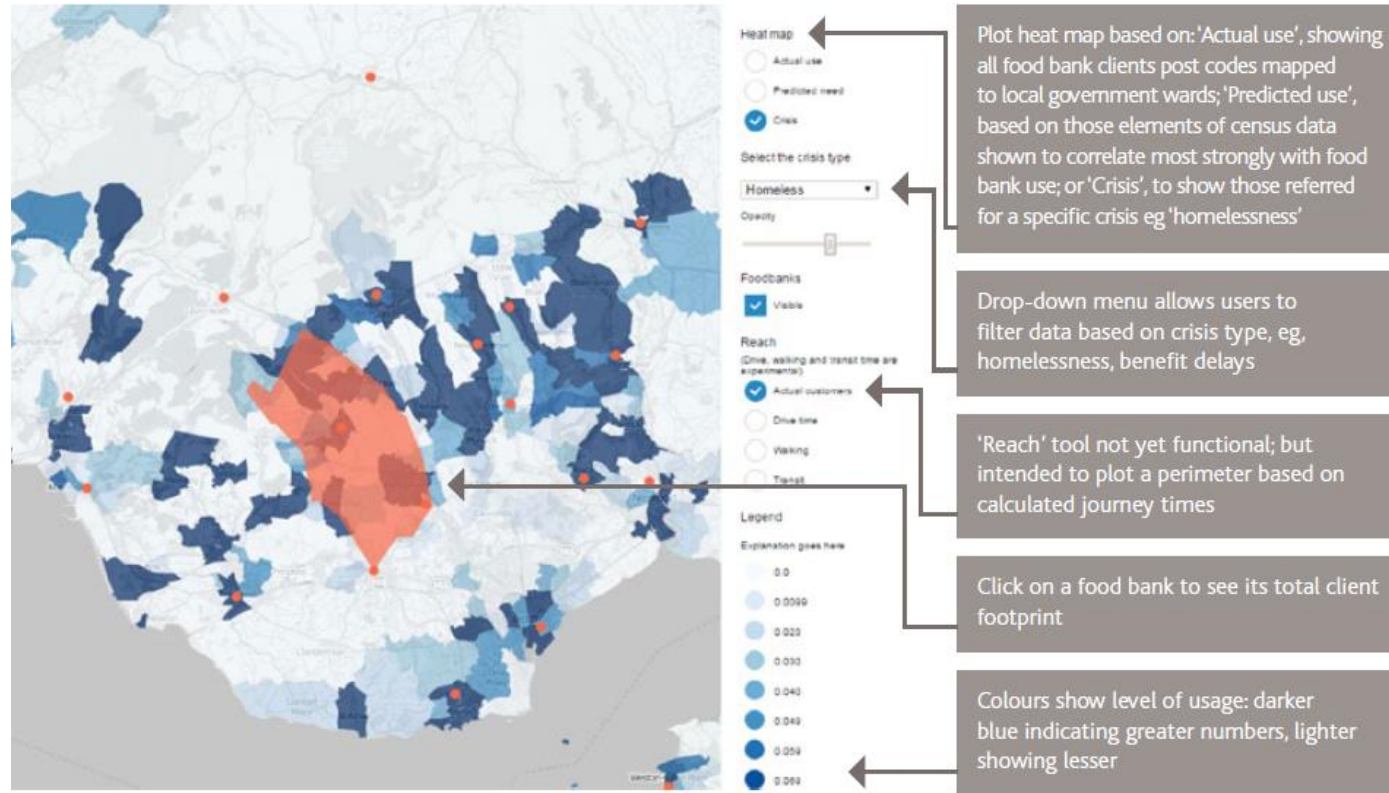


WHO'S IT FOR?



**And how does it help
us reach our goals?**

Find a story – understand your data



Better for internal use or external expert audience such as researchers, policy makers, possibly funders

The Trussell Trust Mapping Hunger tool

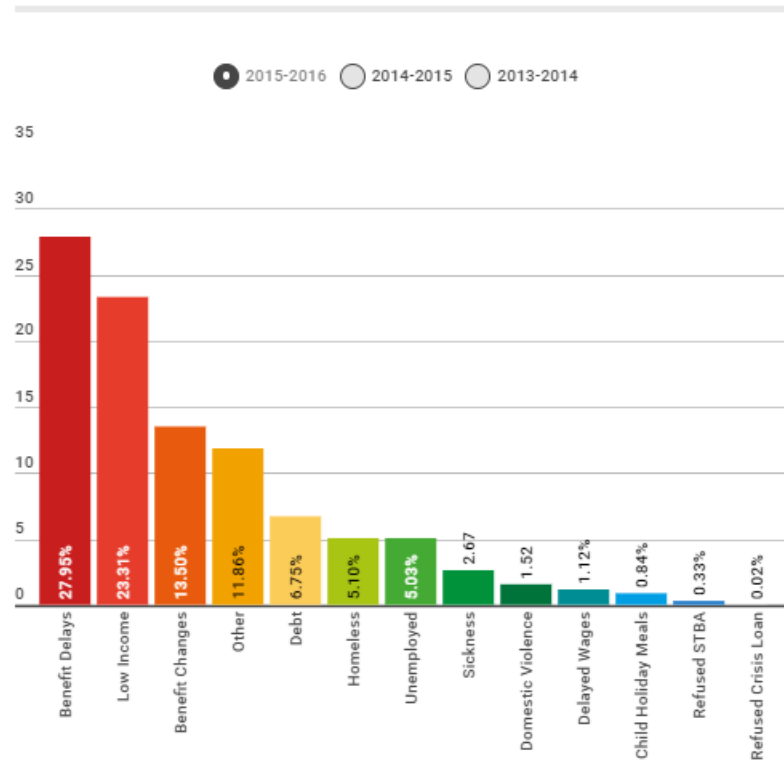
Annotations from NPC's [thinkNPC.org/8innovations](https://www.thinkNPC.org/8innovations)

www.trusselltrust.org/wp-content/uploads/sites/2/2016/04/Mapping-Hunger-Report.pdf



Tell a story – share data with others

Primary reasons for referral to Trussell Trust foodbanks



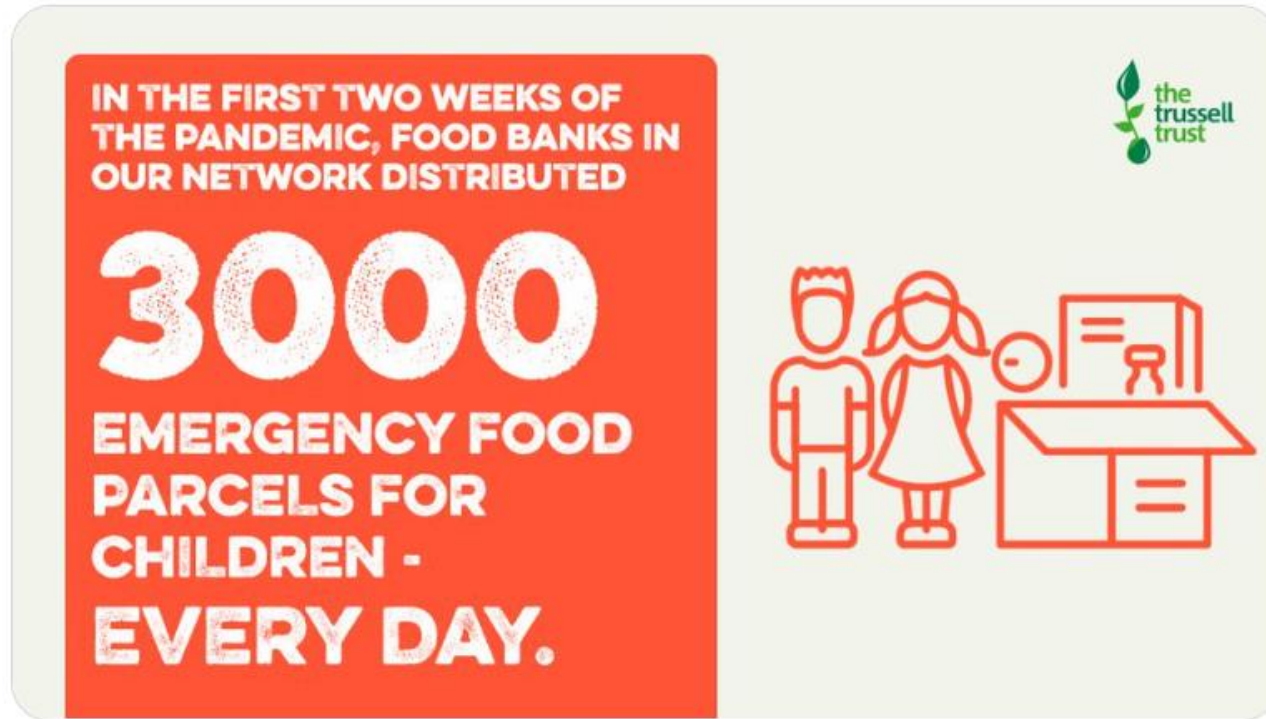
Journalists, campaigning and policy change groups

Some interested supporters/general public.

Simple comparisons can also be used internally to drive change



Tell a story – share data with others



General public,
beneficiaries and
donors



↻ 83

♥ 64



When things
go wrong



What can you see?

A light-hearted look at some visualisations.
Breakout rooms in small groups, 4 slides

1. Name what's wrong
2. And what you'd do about it
3. We'll share back our findings after



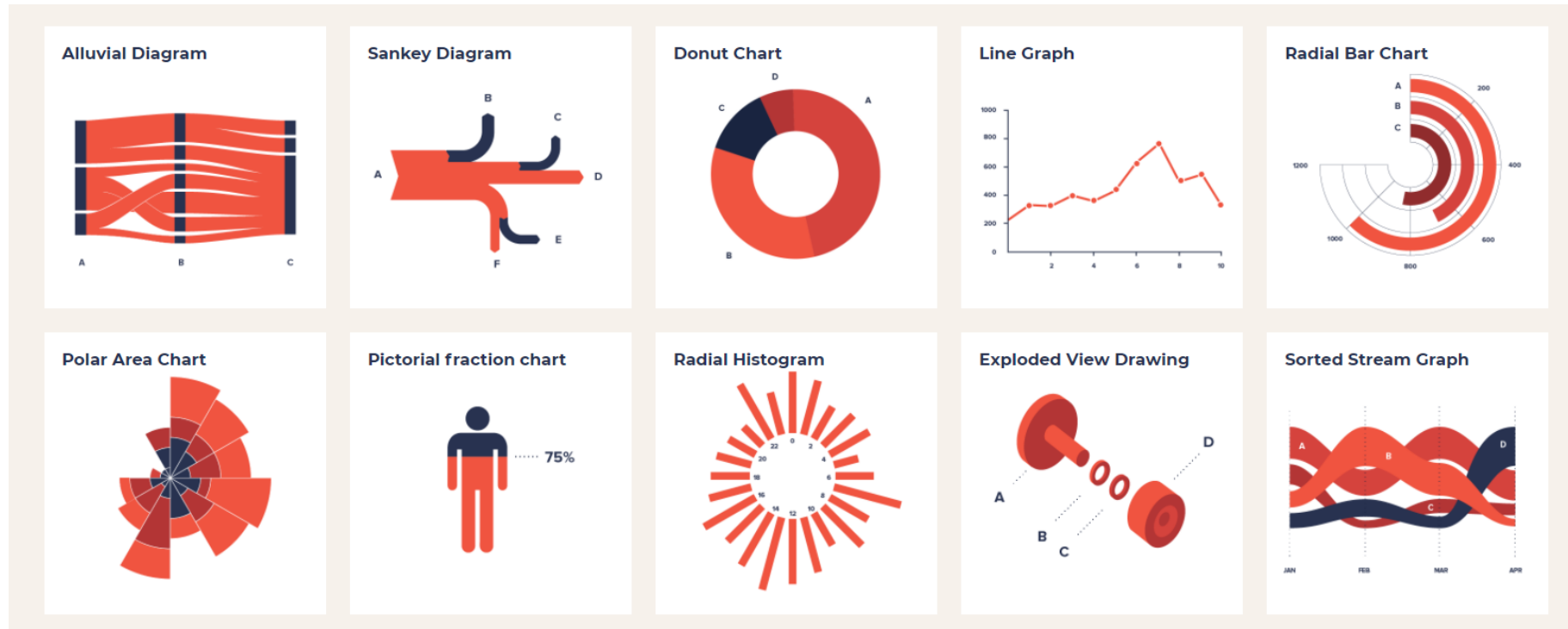
The golden rule...

#ShouldveBeenABarChart

Not true, but you do need to think carefully about the right visual for to be true to your data



Choose the right data visualisation



Simple explanations here at: <https://datavizproject.com/>



Choose the right chart or graph

Search by Function

View by List



Arc Diagram



Area Graph



Bar Chart



Box & Whisker Plot



Brainstorm



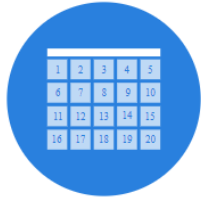
Bubble Chart



Bubble Map



Bullet Graph



Calendar



Candlestick Chart



Chord Diagram



Choropleth Map



Circle Packing



Connection Map



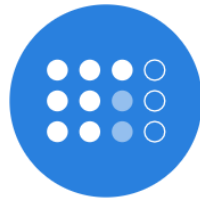
Density Plot



Donut Chart



Dot Map



Dot Matrix Chart

Simple explanations here at:
<https://datavizcatalogue.com/>

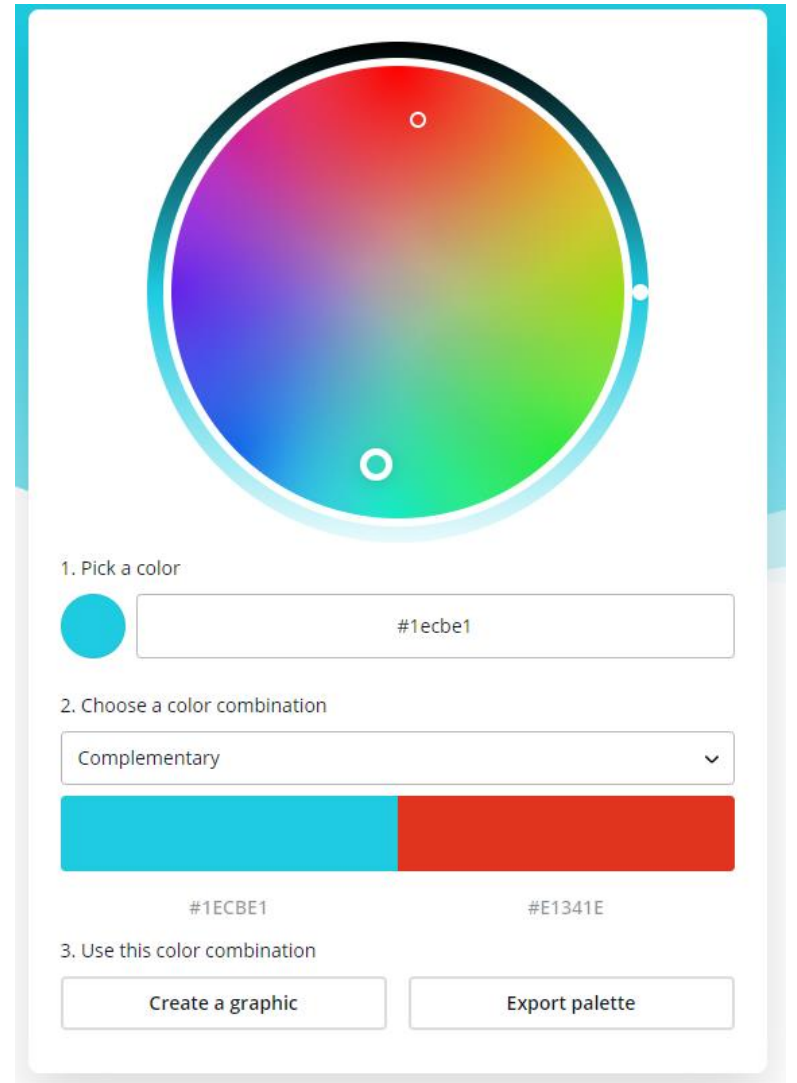


Choosing the right colours

Use the colour wheel to find colours that are complementary, triadic, shades and more.

Some tools like Canva do this for you in charts based on the first colour you choose e.g. a brand colour

Let's take a quick look...





COMFORT BREAK



Let's make it right...



A simple Canva task



Recreate this simple fact from the UN Global Compact for Migration.

It doesn't need to look the same! But try and use the similar dimensions and icons.

Choose two complementary colours if you want to change them.

Use a maximum of two font types.



Or try a short story?

The international migrant population has grown in size but has remained relatively stable as a proportion of the world's population

1995 – 174 million

2000 – 192 million

2005 – 221 million

2010 – 249 million

2015 – 258 million

2019 – 272 million

This means that migrants have grown from 2.8% to 3.4% of the world's population.

Migrants spend 85% of their earnings in their host communities and send 15% to their country of origin.

[See where the other stats came from after the training](#)





Quick demo of Canva and PiktoChart



OVER TO YOU

**Complete 1 of the
Canva tasks.**

20 minutes



Infographics

GETTING STARTED



**Planning your
own infographics**

Tell a simple short story



Or one with greater complexity

BREAKFAST CHANGES LIVES

HOW?

KIDS WHO EAT SCHOOL BREAKFAST...

- MISS LESS SCHOOL:** They attend an average of 1.5 more days per year.
- DO BETTER IN MATH:** They average 17.5% higher math test scores.

MORE ATTENDANCE + **HIGHER MATH SCORES**

20% more likely to graduate high school.

AND KIDS WHO EAT BREAKFAST REAP THE BENEFITS AS ADULTS, TOO:

- High school graduates on average earn **\$10,000** more annually.
- Less likely to experience **HUNGER** as adults.

BUT HERE'S THE PROBLEM

NOT ENOUGH KIDS ARE EATING SCHOOL BREAKFAST.

21 MILLION U.S. kids get free or reduced-price school lunch.

Only 1/2 of those kids get breakfast, even though they're eligible.

Too many kids are showing up to school hungry. And hungry kids can't learn.

BREAKFAST CAN CHANGE THEIR LIVES

No Kid Hungry starts with breakfast.

Learn how you can help at NoKidHungry.org/Breakfast

Logos: NOKID HUNGRY, Deloitte, Kellogg's, EHC!

SYRIA: THE EXPLOSIVE TRUTH

The impact of explosive weapons in the first two years of fighting

- 55,274** TOTAL RECORDED DEATHS
- 40%** OF ALL DEATHS RECORDED WERE CAUSED BY EXPLOSIVE WEAPONS
- 93%** OF DEATHS FROM EXPLOSIVE WEAPONS WERE REPORTED TO BE CIVILIANS
- AT LEAST 2,330** CHILDREN WERE KILLED BY EXPLOSIVE WEAPONS

Data: VDC (March 2011-April 2013, as of 20 June 2013)

AOAV WORKS TO REDUCE THE WORLDWIDE HARM OF ARMED VIOLENCE

aoav.org.uk | @AOAV

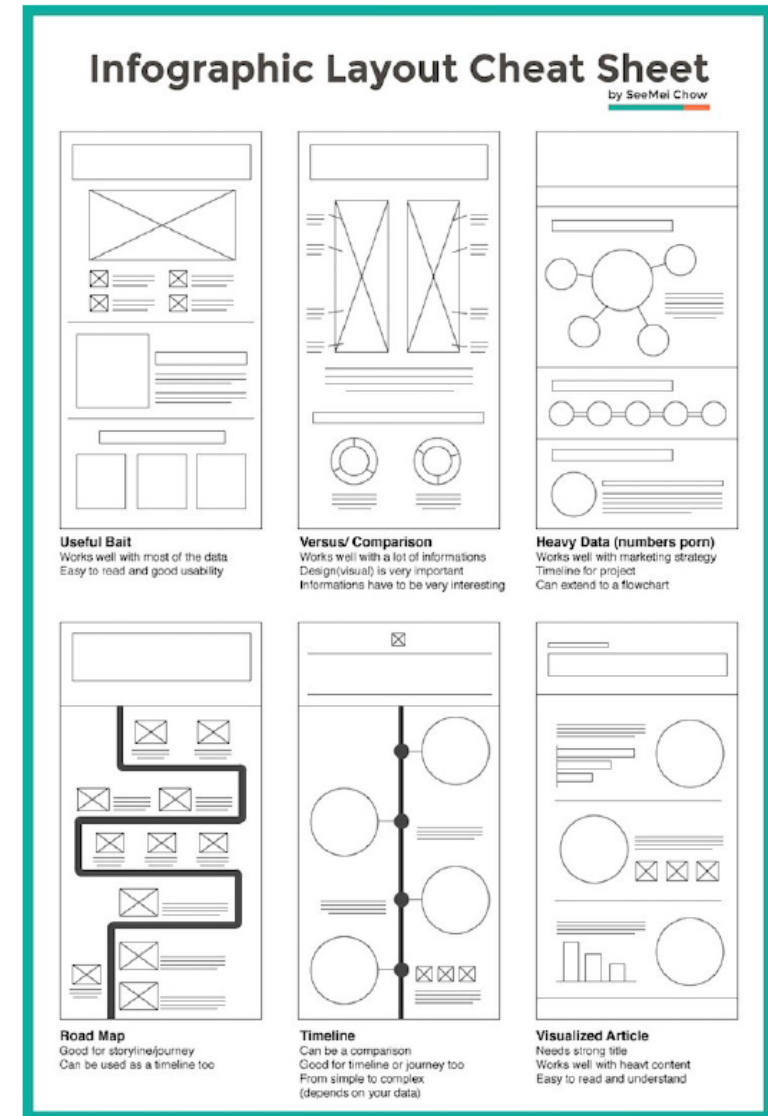
ACTION ON ARMED VIOLENCE

AOAV



A few tips...

- ✓ Write down your narrative
- ✓ Sketch out your plan
- ✓ Look for the data that backs your message
- ✓ Don't overcrowd it
- ✓ Be careful with colour
- ✓ Be kind to you – it takes time
- ✓ Start with a template



What's your story?

What story are you going to tell?

(And who is your story for)

Jot down some ideas – 2 mins





WHERE TO SHARE?

Think of **10** ways to
share your data
visualisation...
In chat. **GO**

Data viz tools to try



✓ [Canva](#) & upgrade to Canva for Work

Piktochart

✓ [PiktoChart](#) \$40 annually for non-profits



✓ [Infogram](#) – 10 projects, 5 pages per project

easelly

✓ [Easel.ly](#) – free version



✓ [Venngage](#) – Need to screenshot for free, then \$10 non-profit

 **batch**geo

✓ [Batchgeo](#) – free, paste postcodes





Useful resources

How people perceive visual information

[5 psychology studies with top tips](#)

Choosing the right charts

[Quickly choose the right type of chart](#) for your data (there are even Excel or PowerPoint templates to download).

What to consider when creating a pie chart - [Datawrapper](#)

Choosing the right colours

[The rule of three colours](#) – choosing your colour palette

[Adobe colour wheel](#) for finding complementary colours

[Upload a photo](#) to choose a colour scheme e.g. your logo

Being more accessible

[Writing](#) alt text and making them colour friendly





TRY IT FOR YOURSELF

- ✓ Write / draw out a short story about your work to share visually
- ✓ Use a free tool to create it
- ✓ Book your Ask the Expert 1:1 or share with a colleague for comments

Becoming more datawise

- ✓ Complete our session evaluation
- ✓ Register for [Datawise London support](#)
- ✓ Check training opportunities [on our Eventbrite page](#)
- ✓ Sign up to our [eNews](#)
- ✓ Get help with digital:
- ✓ [London Digital support access form](#)



A blue magnifying glass icon is positioned on the left side of the slide, set against a large orange circular background. The magnifying glass is tilted slightly to the right.

Thank you for taking part

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