

DATA VISUALISATION SPECIFICATION

1. Aims

Message

What is the key "story" told by your visualisation. Why is it important?
Are you sure it can't be communicated better verbally?

Audience

Who will be viewing your graphic?
Consider: Age, gender, profession, education, nationality, language, existing level of knowledge about the subject.

Tone

Formal Instructive Pragmatic Emotive Other

Timing

Publication date.
Does your visualisation have a shelf life, or need updating?

2. Data

What data is available?

Does it need to be cleaned?
Does more need to be collected?
Do you need to present everything for your key message to be understood?

Data types

Is your data numerical?
Heirarcical? Qualitative?
Locational?

Confidence / Uncertainties

How certain is the data?
What is on the horizon / could happen?

Data display elements

Size 1D (e.g. bar chart) ●
 2D (area) ●
 3D (volume) ●

Position 1D (e.g. means plot) ●
 2D (e.g. scatter plot) ●
 3D (e.g. 3D scatter) ●

Colour Categorical ●
 Contiuous (colour scale) ●

Pictorial Symbol / illustration ●
 Photograph ●

Grouping Link lines ●
 Enclosure ●
 Highlighting ●

Motion Animation (position, scale etc) ●
 Video ●

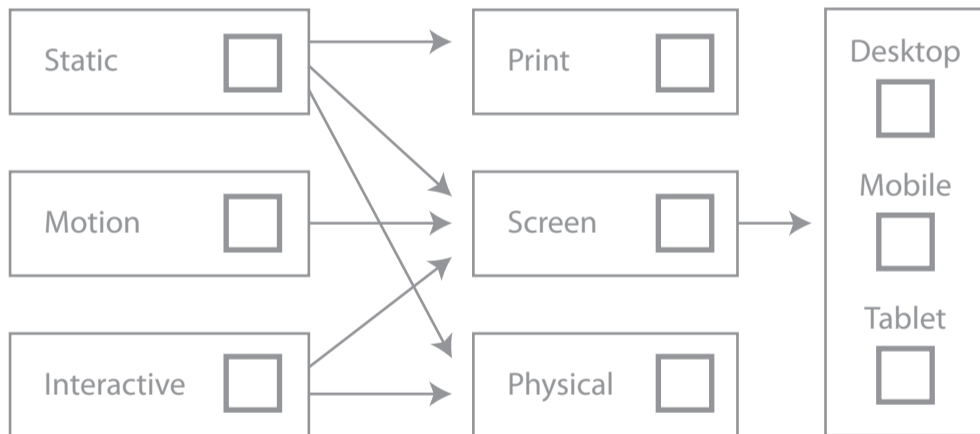
Interaction User controls display ●
 User Provides data ●

Other

3. Form

Size(s)

Engagement



Delivery

Some commonly used data displays

Comparing quantitative magnitude:
Size (bar charts), area (pie / bubble charts), symbols (Isotype diagram).

Showing trends over time:
Position (line graphs), animation

Spatial data:
maps (but also consider if category is more important than physical location).

Showing categories and heirarchy:
Colour, linking, enclosing

4. Finishing

Heirarchy

Stand away from your screen or squint.
What is the first thing that you see?
Do you need a bigger title / key headings?

Key

Make sure you have provided a key.

Intended results

What do you want your audience to do?
Do you need to show them where to find more information?

Credits

Make sure you credit everyone involved (including organisations / funders):
