WEEKIII VISUALIZATION FOR COMMUNICATION

Part one:

Choosing encodings

Length or height



Position

Area



Angle/area





Visual encoding

Hue and shade



Figures represented in all these graphics: 22%, 25%, 34%, 29%, 32% Choose encoding and organize your data in a way that enables specific tasks

The Data Visualisation Catalogue

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http://www.datavizcatalogue.com/

data analysis + visualization

EMERY'S ESSENTIALS Chart Choosing Tool

ALL / SMALL MULTIPLES / COMPARING 2 OR MORE CATEGORIES / RANGES OR DISPERSION / PART TO WHOLE / DO-ABLE IN EXCEL / GEOGRAPHIC MAPS / RELATIONSHIPS / COLLAGES / QUALITATIVE / EXPLORATORY / CORRELATION / 1 POINT IN TIME / 2 POINTS IN TIME / 3+ POINTS IN TIME



http://annkemery.com/essentials/

Deviation

Emphasise variations (+/-) from a fixed reference point, Typically the reference point is zero but it can also be a target or a long-term average. Can also be used to show sentiment (penitibe ideal(assisted))



either against a baseline or betwee



. No. Line + Colu h



A good way of showing the patterns between 2 categories of data, less good at showing fine differences in amounts.

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Correlation

Show the relationship between two or more variables. Be mindful that, unless you tell them otherwise, many readers will assume the relationships you show them to be causal (i.e. one causes the other).

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flation & un

Ш. n a strip are a space-efficient method of laying out

Ranking

Use where an item's position in an ordered list is more important than absolute or relative value. Don't be afraid to highlight the points of





Designing with data

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, nor a wizard, but is a useful starting point for making informative and meaningful data visualisations.

FT graphic: Alan Smith; Chris Campbell; Ian Bott; Liz Faunce; Graham Parrish; Billy Ehrenberg; Paul McCallum; Martin Stabe Inspired by the Graphic Continuum by Jon Schwabish and Severino Ribecca

ft.com/vocabulary



now a statistical distribution - keep the









showing how unequa a distribution is: y axi is always cumulative



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showing part-to-who relationships where some of the components





Part-to-whole

Change over Time

now a changing tim rries. If data are regular, consider

showing change er time - but ually best with onl

day-to-day activity, these charts show opening/closing and hi/low points of each

changing data as lon as the data can be simplified into 2 or 3

Jse with cars are good at showing changes to total, bu eveing change in the can b

hese can be shi Choosing the correct important to provide for the reader

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4,14

my structure

- but be aware it's difficult to

the centre can be ood way of making ce to include more

to-whole tionships; can be cult to read when

suarsaing hiers rt-to-whole stionships. Use ringly (if at all

or schematic epresentation.



The standard way to compare the size of things. Must always start at 0 on the axis

Magnitude

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1 Å.

than rates - be wary that small differences

j.



X

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23

23 Grid-based data value mapped with an intensity colour scale. As choropleth map – but not snapped to an utmichelitical to at



charts - again, the arrngement of the variables is importan Usually benefits from

FT

https://github.com/ft-interactive/chart-doctor/blob/master/visual-vocabulary/Visual-vocabulary.pdf

Spatial

Used only when precise locations or geographical patterns in data are more important to the reader than anything else.

xample FT user ocator maps, populatio atural resource location isaster risk/impact, cat Flow









the strength and inter-connectding of relationships of





Heat map



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