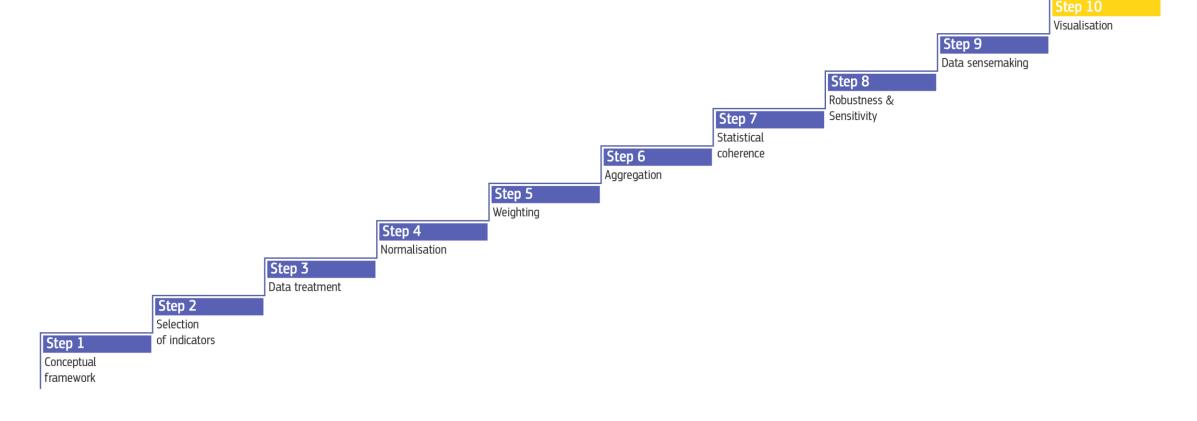
# Step 10 Visualization

19th JRC Annual training on Composite Indicators and Scoreboards

Carlos Moura



# 10 STEPS to build a Composite Indicator

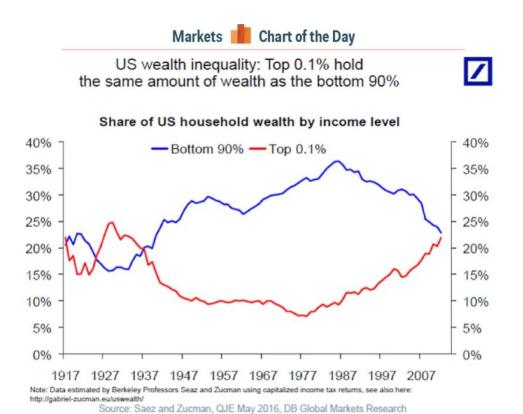




Data has an important story to tell

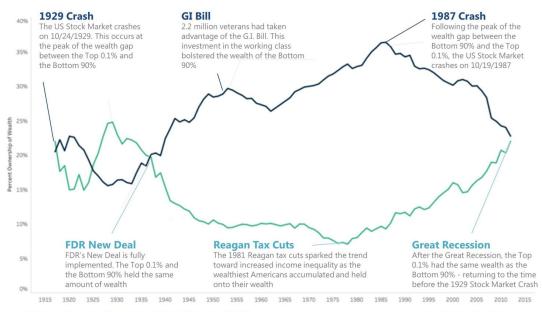


#### Data Visualization is about how you want to tell that story



#### The Wealth Gap

A historical view of wealth ownership within the Top 0.1% and the Bottom 90% of US households

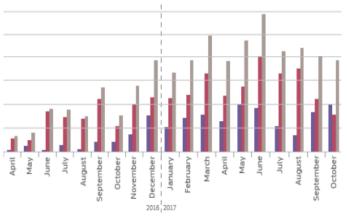


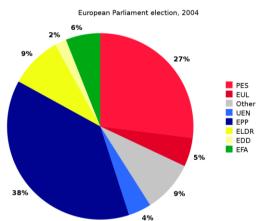
Source: http://www.businessinsider.com/share-of-us-household-wealth-by-income-level-2016-11

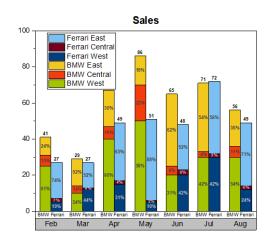
Designer: https://twitter.com/sirvizalot

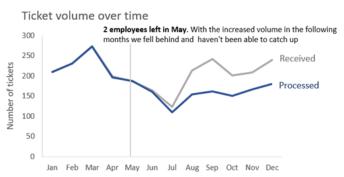


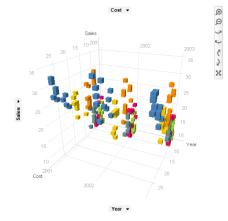
### What makes a good chart?

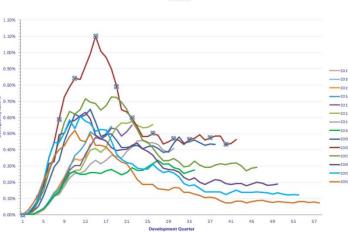




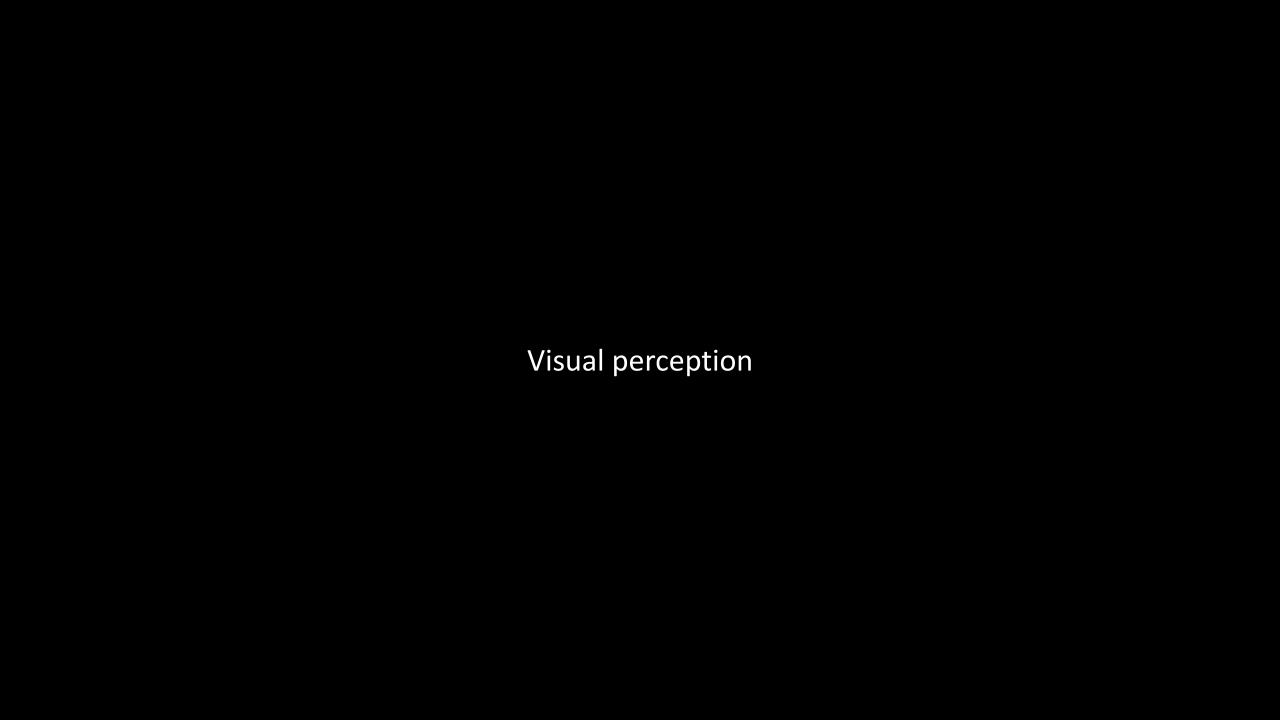








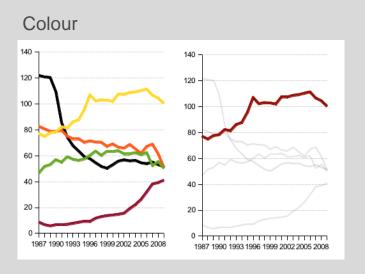


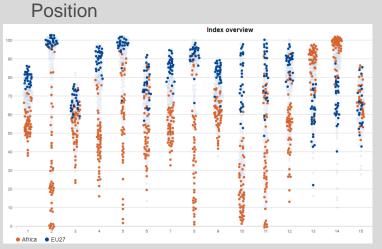




Visualization uses perception to free cognition

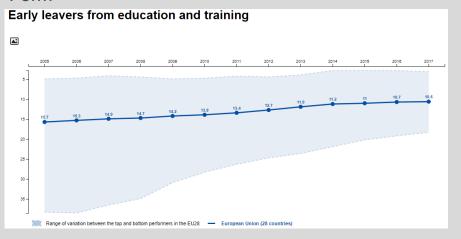
### Preattentive attributes on charts



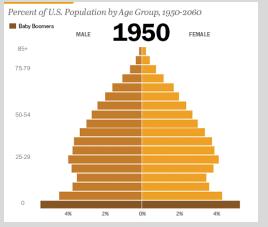


Used to quickly focus the reader on the most important pieces of information

#### Form



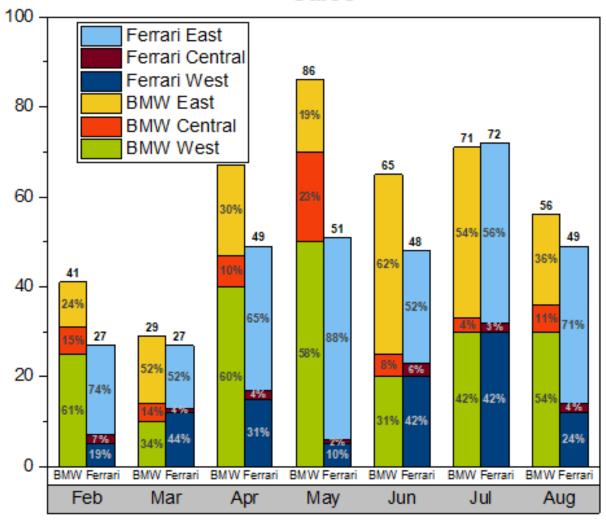
#### Motion





A M C D F R E E S H P O F Q H O P I U O I U L F K S D K
F K F J Z F C P T H B M U G I N D I C A T O R S D H D X
B E W Z C O M P O S I T E A E T F R J L M N O J K P B R
L A D X O G F J E I L K S A P R P I Z Z A H M X O Q B I B

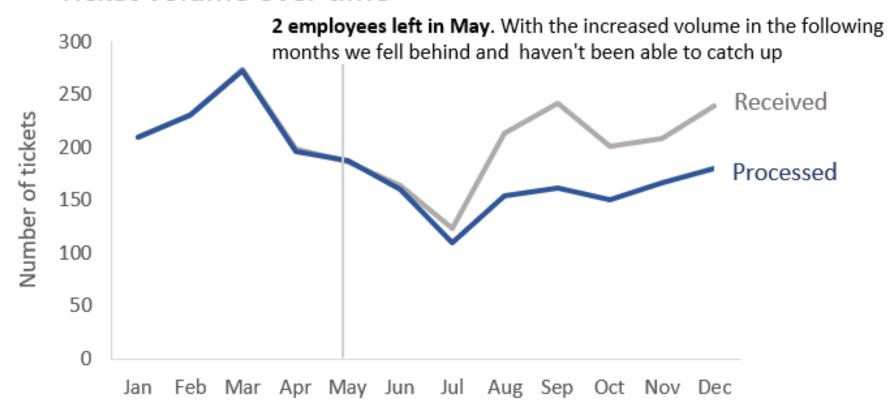
#### Sales





AMCDFREESHPOFQHOPIUOIULFKSDK
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BEWZCOMPOSITEAETFRJLMNOJKPBR
LADXOGFJEILKSAPRPIZZAHMXOQBIB

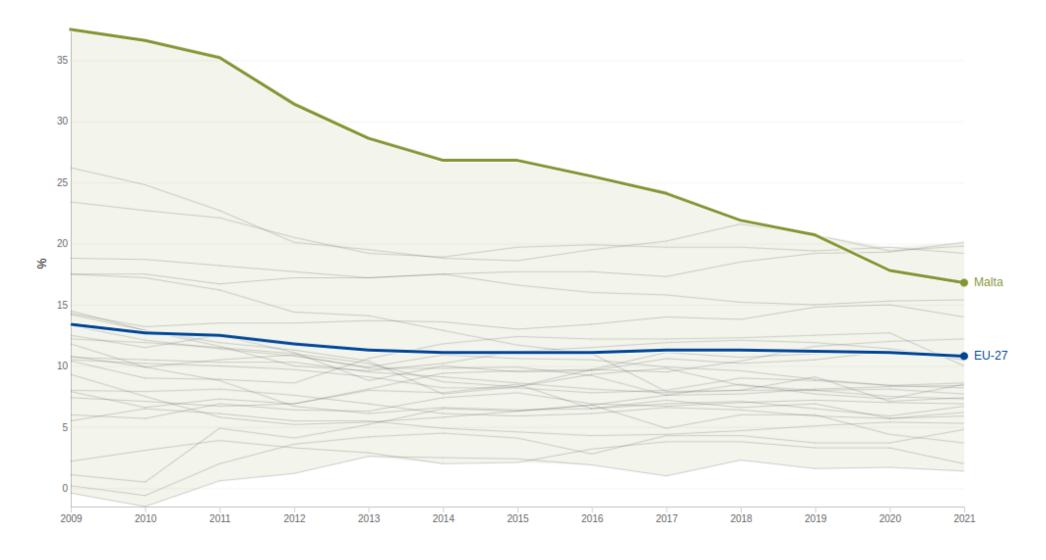
#### Ticket volume over time





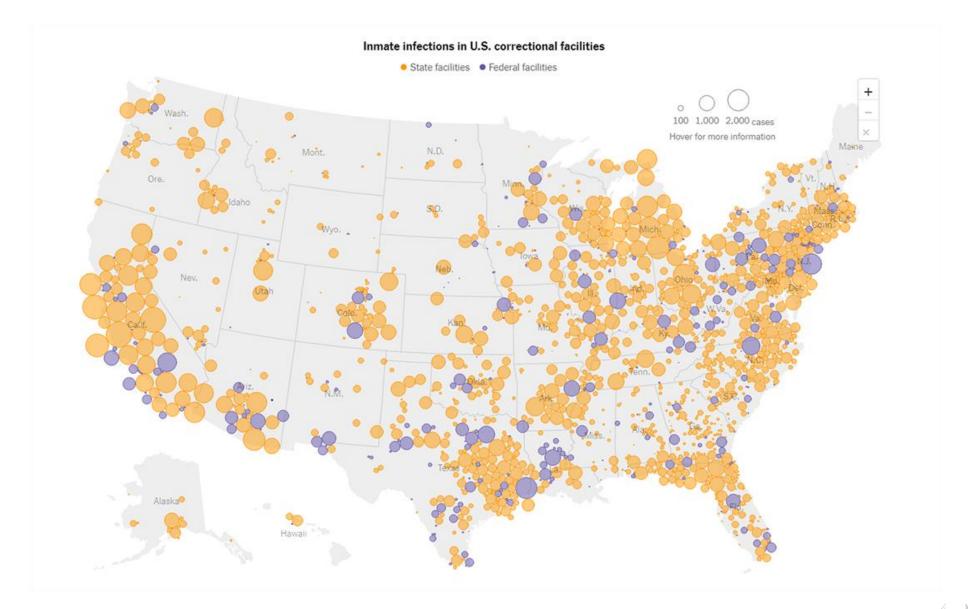
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FKFJZFCPTHBMUGINDICATORSDH DX
BEWZCOMPOSITEAETFRJLMNOJKPBR
LADXOGFJEILKSAPRPIZZAHMXOQBIB

#### Gender gap in employment rate (%)





AMCDFREESHPOFQHOPIUOIULFKSDK
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BEWZCOMPOSITEAETFRJLMNOJKPBR
LADXOGFJEILKSAPRPIZZAHMXOQBIB



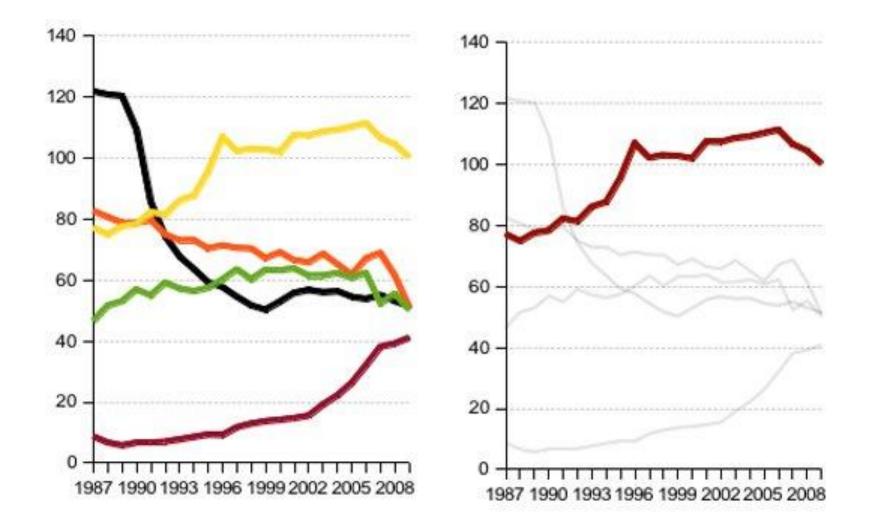


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FKFJZFCPTHBMUGINDICATORSDH DX

BEWZCOMPOSITEAETFRJLMNOJKPBR

LADXOGFJEILKSAPRPIZZAHMXOQBIB





### How to communicate effectively with data?

#### It depends

- On the data
- On the context
- On the message

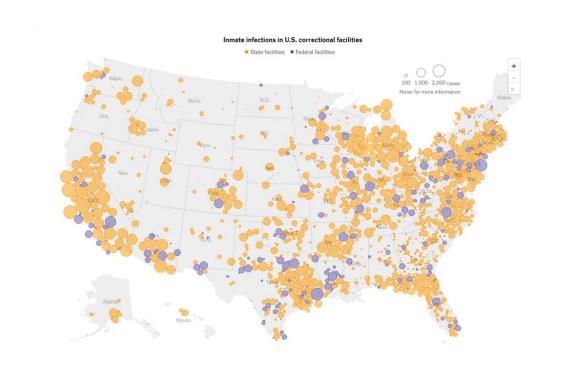


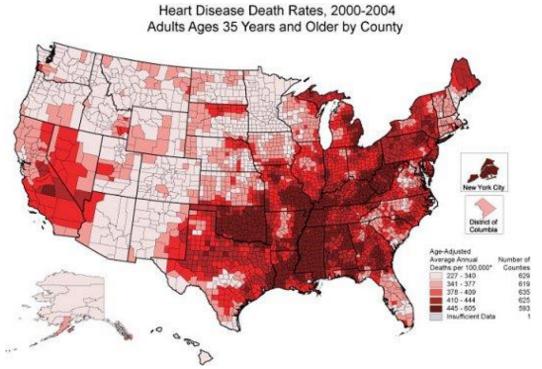
#### Some vague guidelines

- Understand the context
- Choose the appropriate visual display
- Eliminate clutter (simple is better)
- Focus attention where you want it
- Tell a story



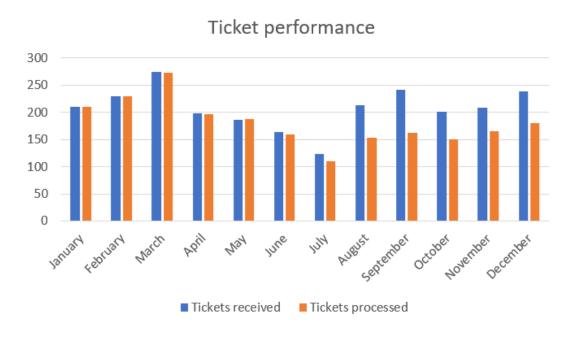
### Remember the message

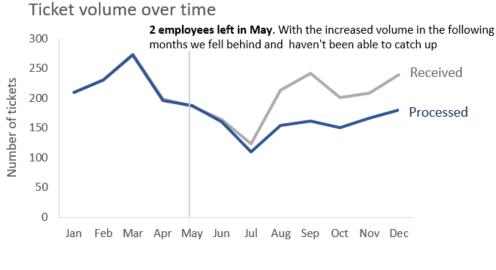






### The importance of choosing the best visuals







### How to communicate effectively?

#### It depends

- On the data
- On the context
- On the message



#### Some vague guidelines

- Understand the context
- Choose the appropriate visual display
- Eliminate clutter (simple is better)
- Focus attention where you want it
- Tell a story



### Eliminate clutter



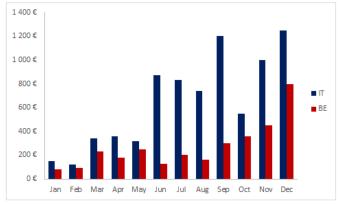


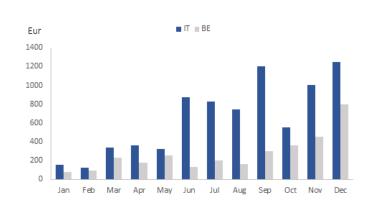


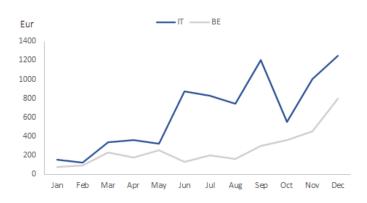


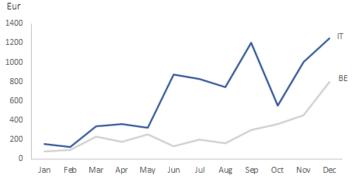
### Eliminate clutter and focus on the message

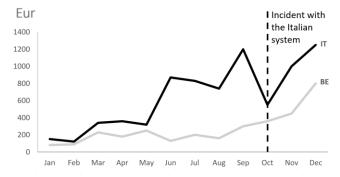














## Thank youS



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https://knowledge4policy.ec.europa.eu/composite-indicators\_en

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