

Getting oriented in the process

Where the circulating reference informs analysis

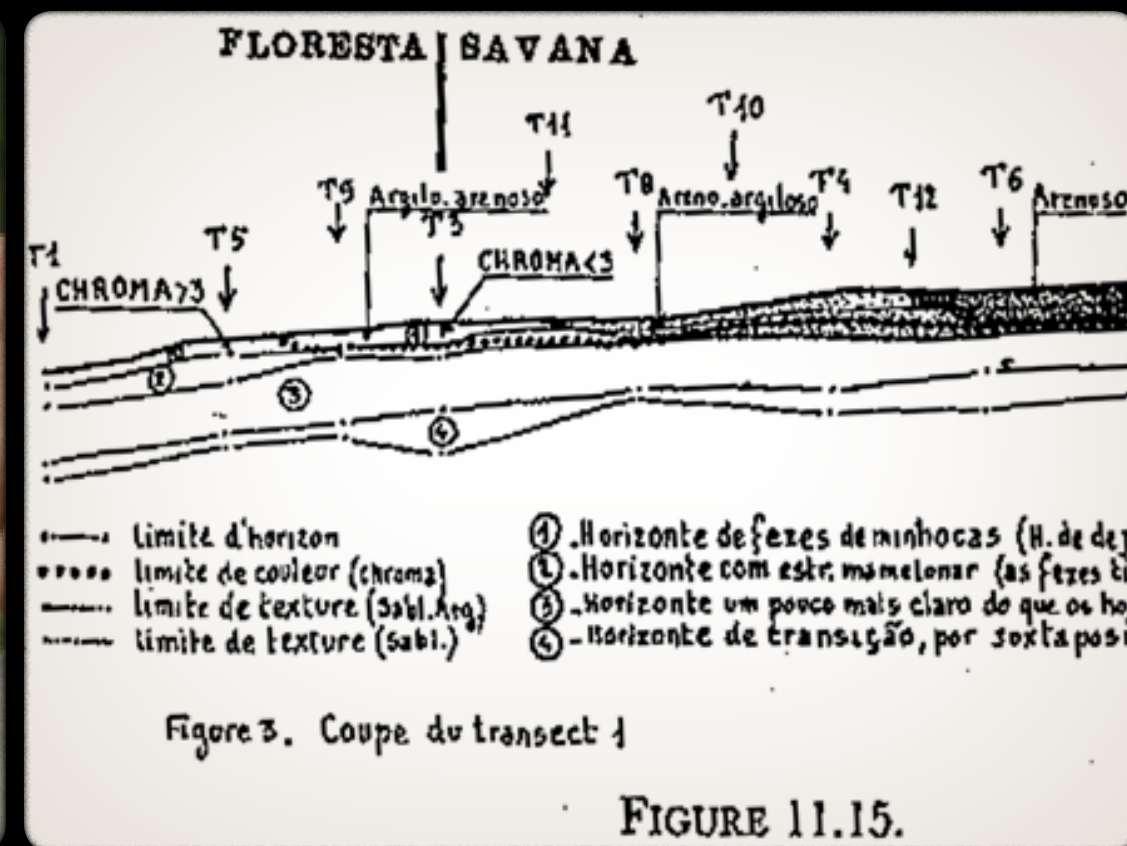
Mathieu Jacomy
Aalborg University TANTLab

Circulating reference



The “Pédofil” of Boa Vista, Bruno Latour, 1995

Circulating reference



The "Pédofil" of Boa Vista, Bruno Latour, 1995

Circulating reference

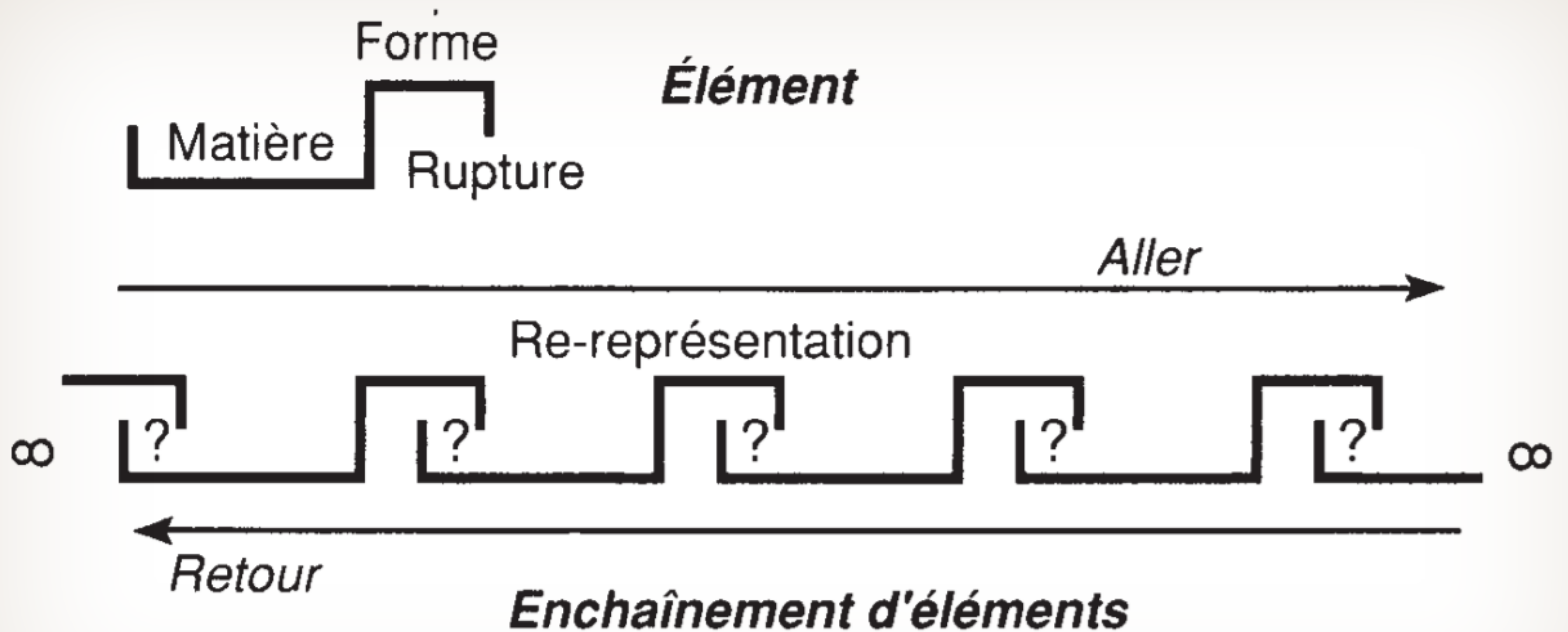
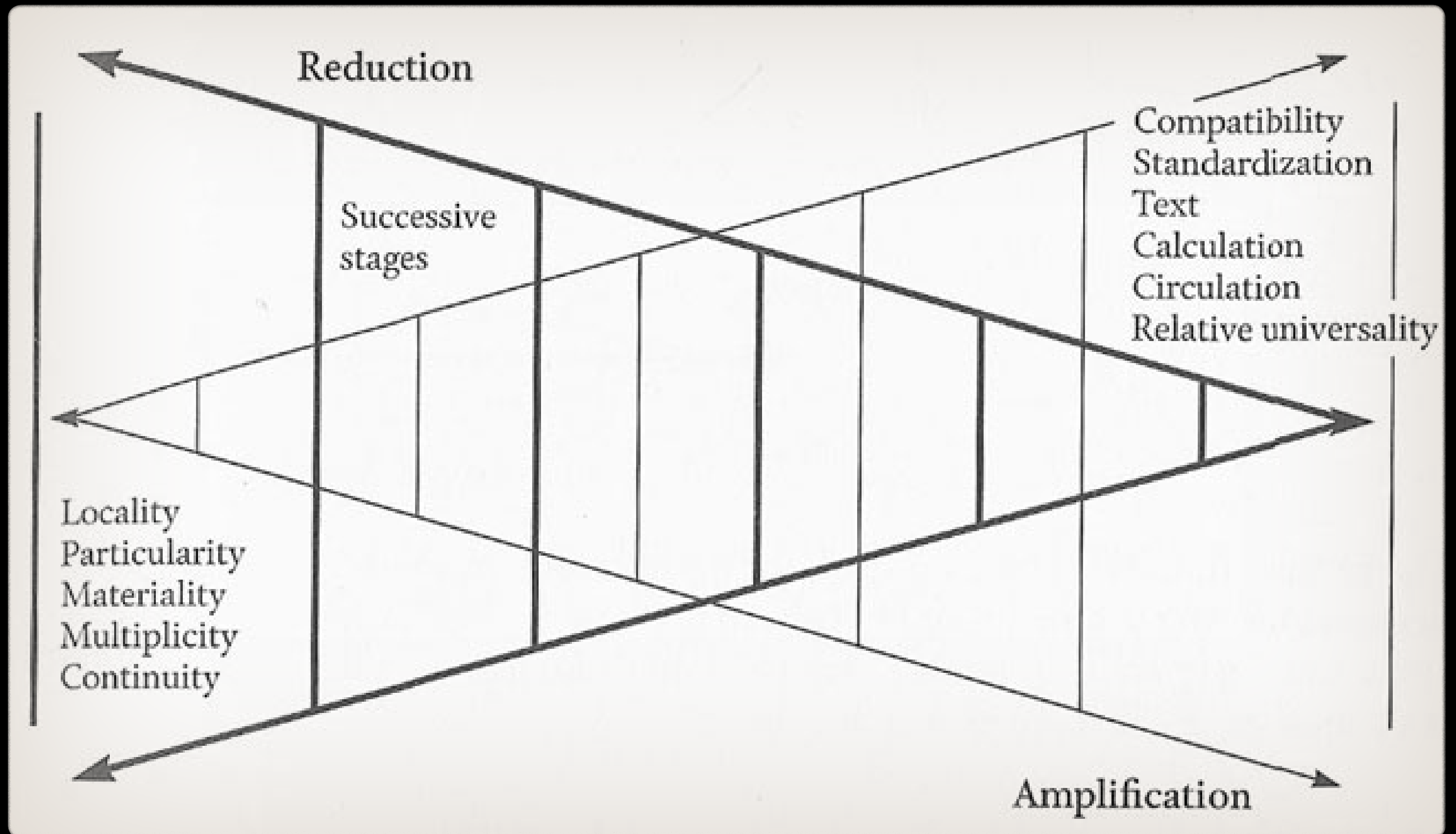


FIGURE 11.21.

Circulating reference



The "Pédofil" of Boa Vista, Bruno Latour, 1995

Circulating reference

How it relates to data viz



London Underground Map, 1920

Circulating reference

How it relates to data viz

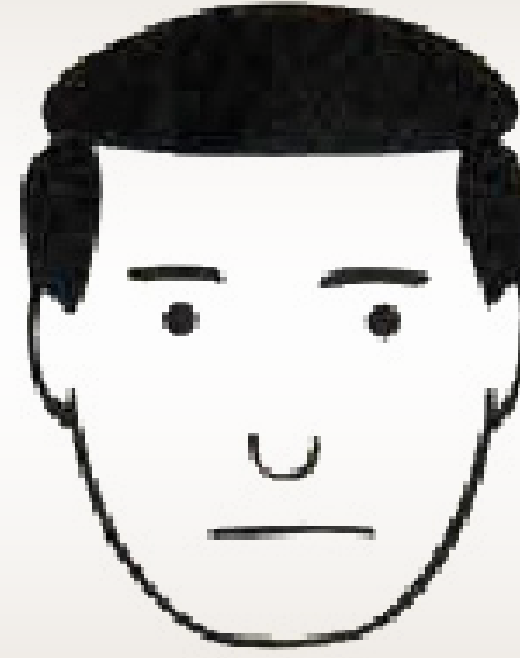
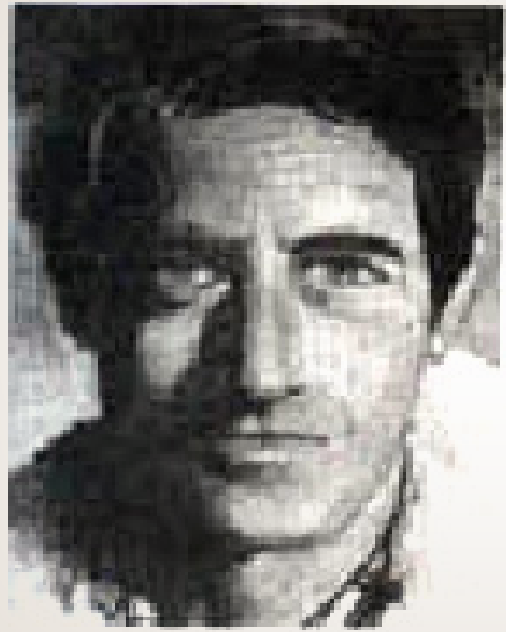


London Underground Map, 1934

Circulating reference

How it relates to data viz

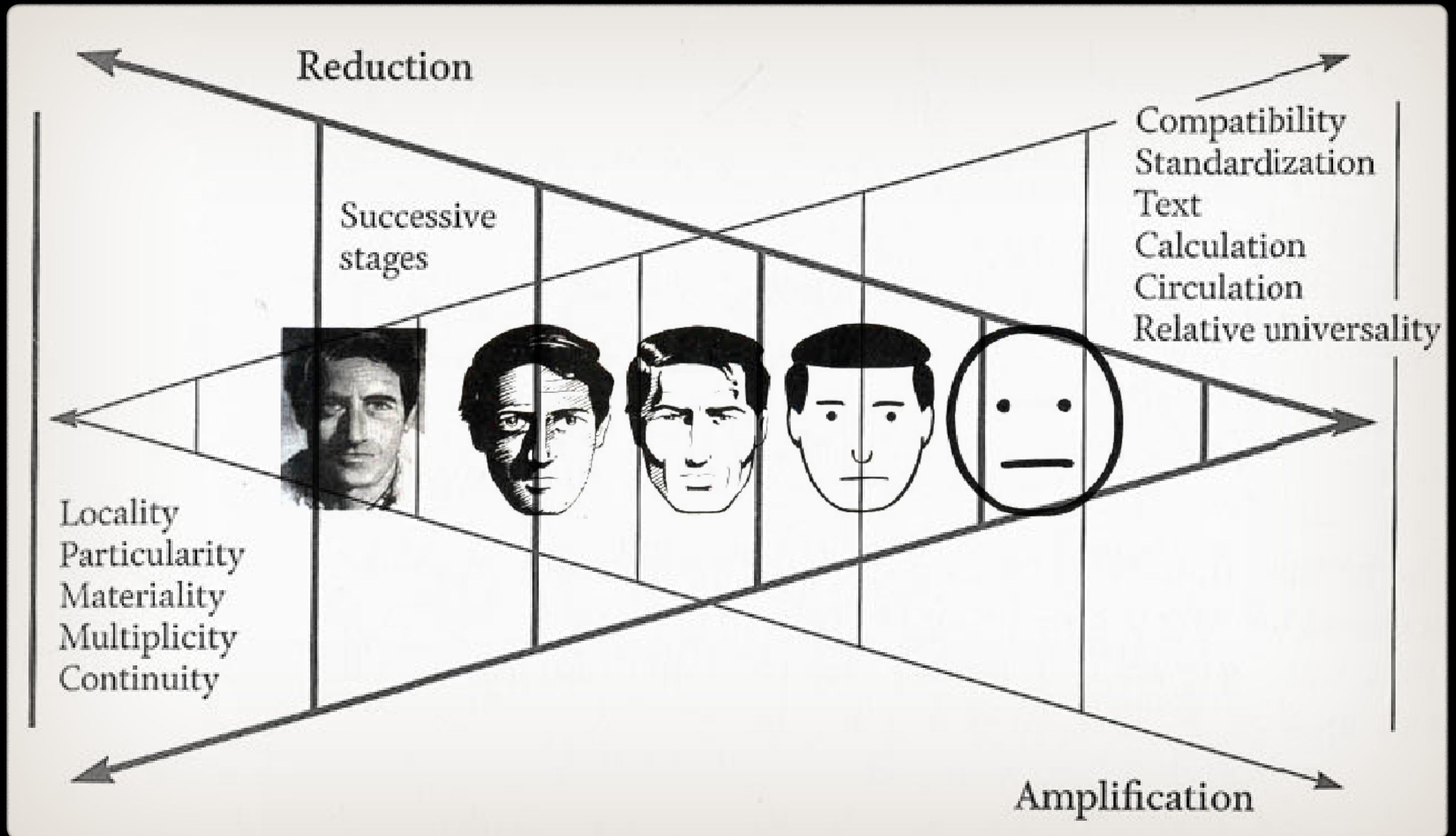
Details



Legibility

Circulating reference

How it relates to data viz



Scott Mc Latour, an abomination you'd better forget asap

Exploratory Data Analysis

Contrary to usual statistics,
EDA is **not confirmatory**

<u>P-VALUE</u>	<u>INTERPRETATION</u>
0.001	HIGHLY SIGNIFICANT
0.01	
0.02	
0.03	
0.04	SIGNIFICANT
0.049	
0.050	OH CRAP. REDO CALCULATIONS.
0.051	ON THE EDGE OF SIGNIFICANCE
0.06	
0.07	HIGHLY SUGGESTIVE, SIGNIFICANT AT THE P<0.10 LEVEL
0.08	
0.09	
0.099	HEY, LOOK AT THIS INTERESTING SUBGROUP ANALYSIS
≥0.1	

Table 1: Regression table

	(1) Price	(2) Price
Weight (lbs.)	1.747** (2.72)	3.465*** (5.49)
Mileage (mpg)	-49.51 (-0.57)	21.85 (0.29)
Car type		3673.1*** (5.37)
Constant	1946.1 (0.54)	-5853.7 (-1.73)
Observations	74	74

t statistics in parentheses

* $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$

Exploratory Data Analysis

Contrary to usual statistics,
EDA is not confirmatory

Contrary to visual communication,
EDA is **not explanatory**

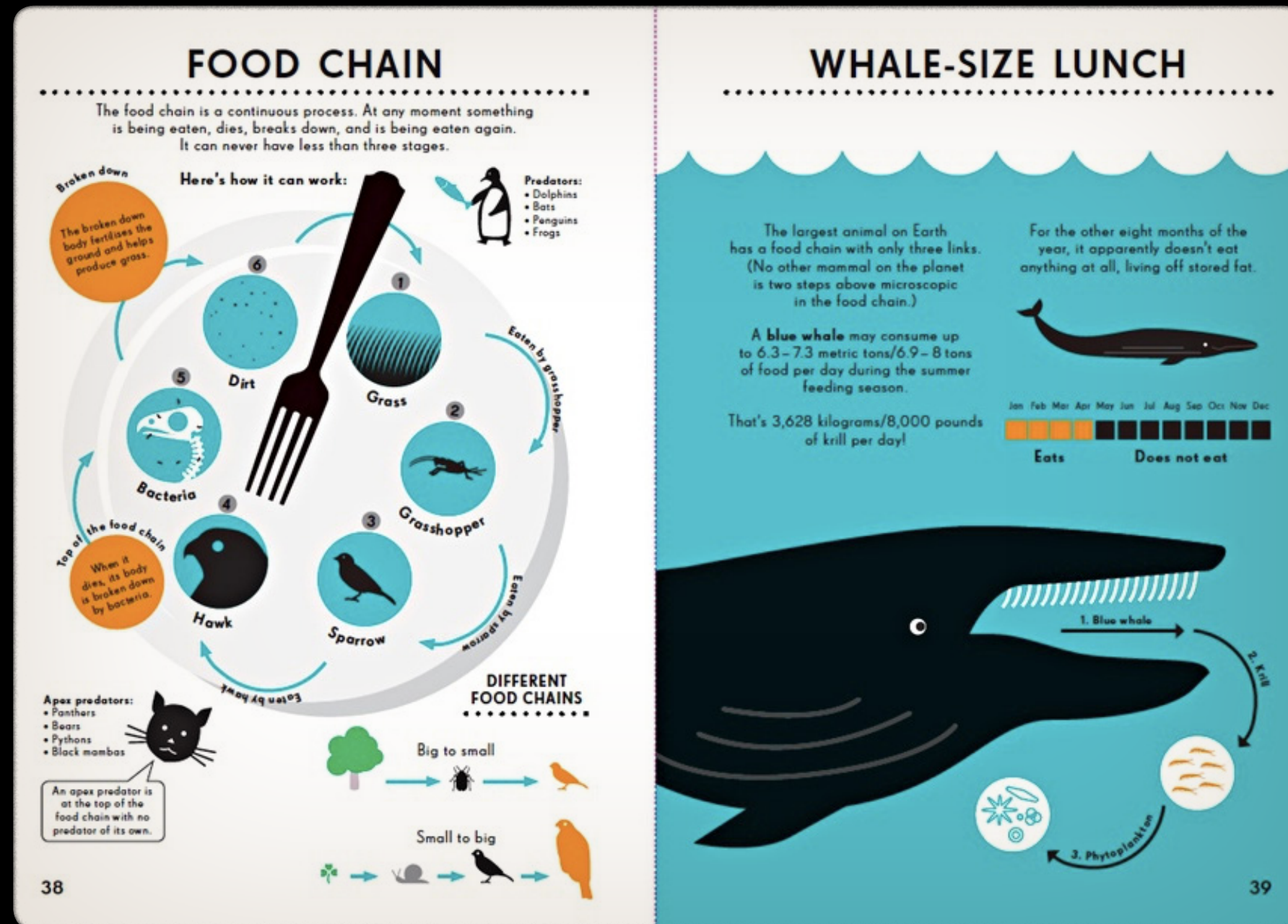


Illustration by Nicholas Blechman

<https://www.theguardian.com/news/datablog/2014/mar/07/infographics-for-children-can-learn-from-data-visualisations>

Exploratory Data Analysis

Contrary to usual statistics,
EDA is not confirmatory

Contrary to visual communication,
EDA is not explanatory

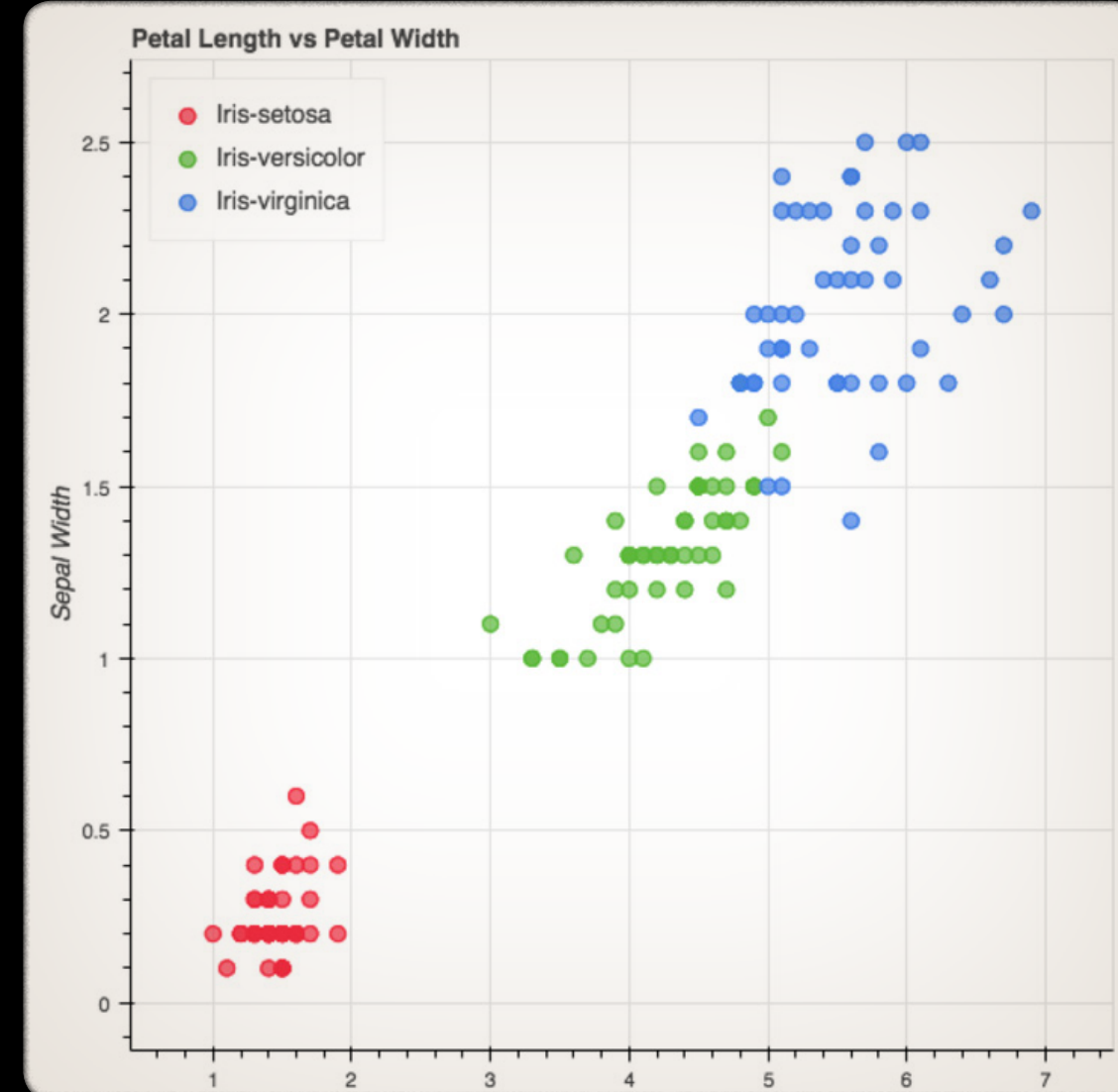
EDA aims at

Discovering regularities

Detecting anomalies

Framing hypotheses

Checking preconceptions



```
script.py
1 # Pearson correlation
2 iris.corr()
3
4 # Kendall Tau correlation
5 iris.corr('kendall')
6
7 # Spearman Rank correlation
8 iris.corr('spearman')
```

IPython Shell

	Sepal_length	Sepal_width	Petal_length	
Sepal_length	1.000000	-0.159457	0.881386	0
Petal_width	0.834421	0.798078	-0.303421	-0
Sepal_width	-0.159457	1.000000	-0.303421	-0
Petal_length	0.881386	-0.303421	1.000000	0
Petal_width	0.834421	-0.277511	0.936003	1
Class	0.798078	-0.434348	0.935441	0

In [1]: |

Run

Thank you for your attention

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