

# Description and Evidence Gathering

Department of Government  
London School of Economics and Political Science

1 Review

2 Description

3 Texts as Sources

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# Preview

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  - Problem set 2 (Concepts)
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- Week 7 – Online lecture + guest lecture
- Start thinking about what kinds of topics interest you as possible research proposals

# Review

- Data Description
- Variable summaries
  - Statistics
  - Tabulation
  - Aggregation
- Visualisation

# Anscombe's Quartet

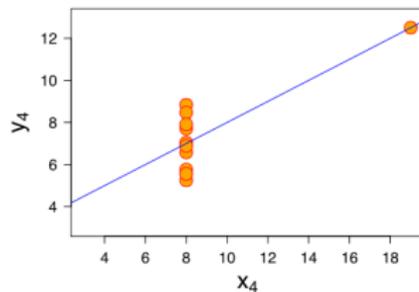
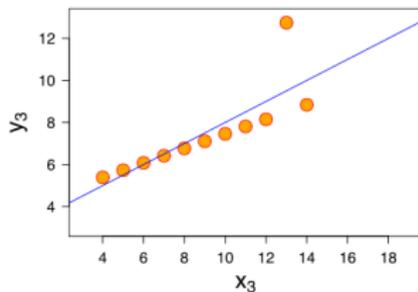
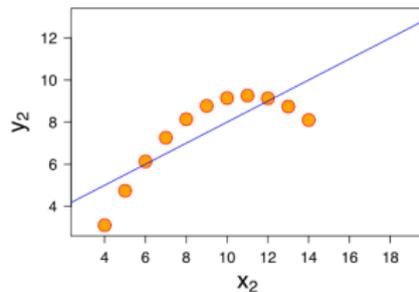
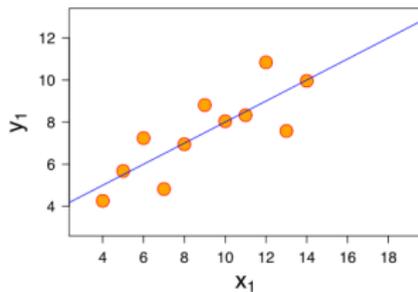
	I	II	III	IV			
10.0	8.04	10.0	9.14	10.0	7.46	8.0	6.58
8.0	6.95	8.0	8.14	8.0	6.77	8.0	5.76
13.0	7.58	13.0	8.74	13.0	12.74	8.0	7.71
9.0	8.81	9.0	8.77	9.0	7.11	8.0	8.84
11.0	8.33	11.0	9.26	11.0	7.81	8.0	8.47
14.0	9.96	14.0	8.10	14.0	8.84	8.0	7.04
6.0	7.24	6.0	6.13	6.0	6.08	8.0	5.25
4.0	4.26	4.0	3.10	4.0	5.39	19.0	12.50
12.0	10.84	12.0	9.13	12.0	8.15	8.0	5.56
7.0	4.82	7.0	7.26	7.0	6.42	8.0	7.91
5.0	5.68	5.0	4.74	5.0	5.73	8.0	6.89

$$\bar{x} = 9, \text{Var}(x) = 11,$$

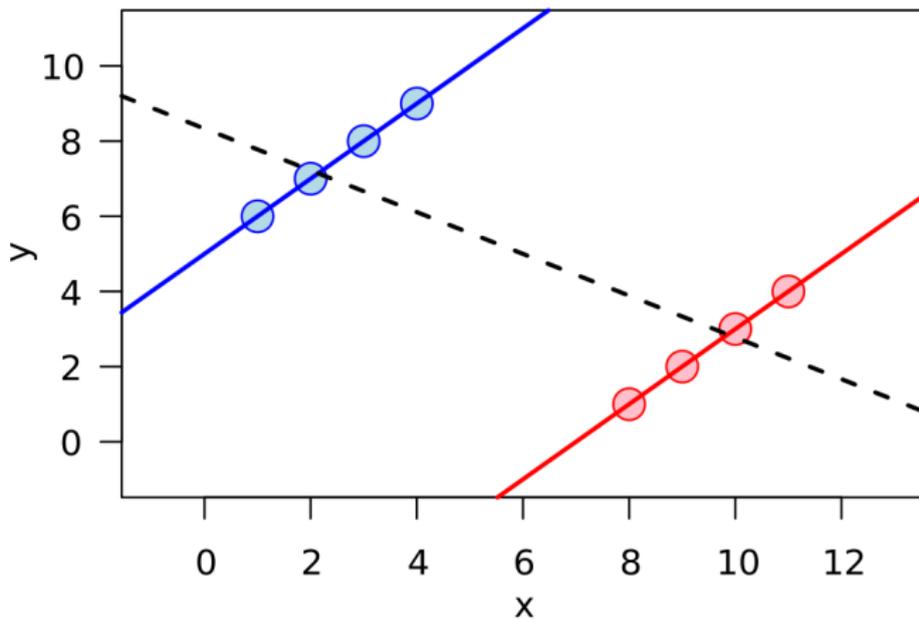
$$\bar{y} = 7.5, \text{Var}(y) = 4.12,$$

$$\text{Corr}(x, y) = 0.816$$

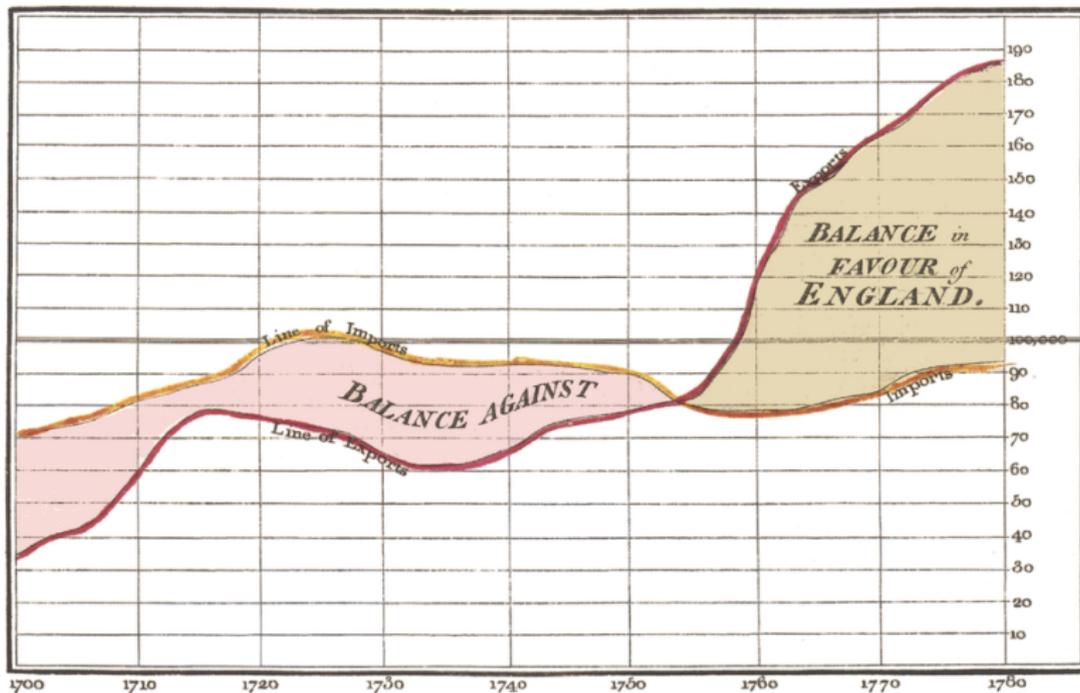
# Anscombe's Quartet



# Simpson's Paradox



## Exports and Imports to and from DENMARK &amp; NORWAY from 1700 to 1780.

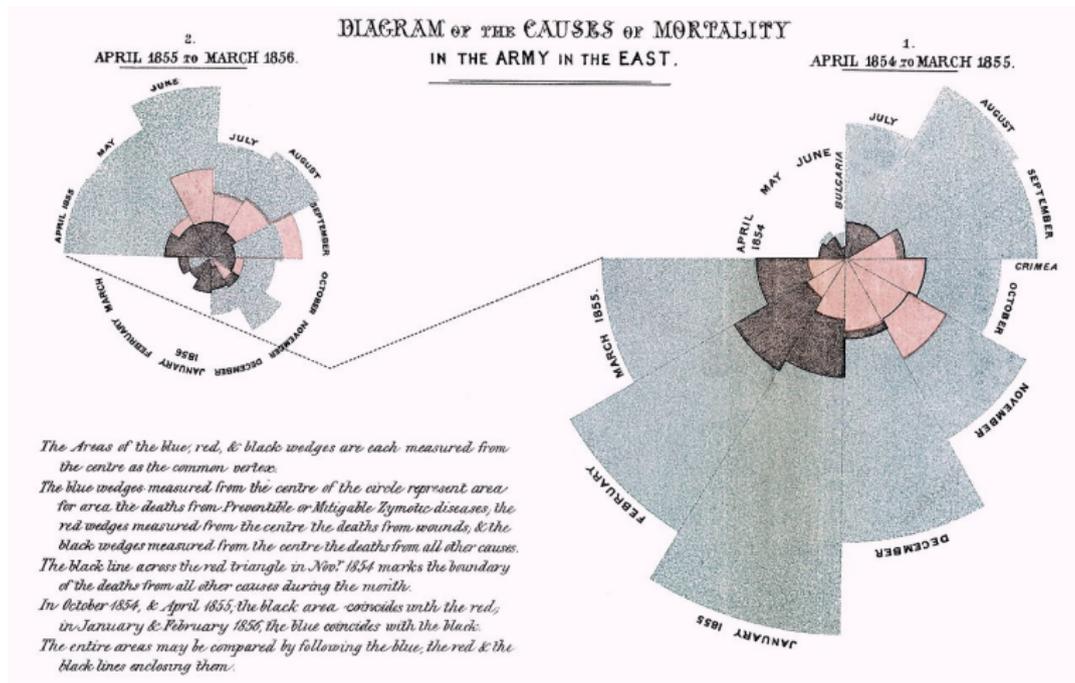


*The Bottom line is divided into Years, the Right hand line into £10,000 each.*

*Published as the Act directs, 1<sup>st</sup> May 1786, by W<sup>m</sup> Playfair*

*Noble and Son, 352, Strand, London.*





# The bottom line

A visualization should be a display of quantitative (and/or qualitative) data that tells an information-rich story in an honest and beautiful manner.



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- Toshkov has a different typology
  - Multi-/single-case
  - Multi-/uni-variate

# Description ≡ “What?”

A common feature of descriptive research and descriptive research questions is a focus on *what* questions.

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- How much of this is there?

# Answering Descriptive RQs

- 1 Ask question
- 2 Decide what kind of evidence will answer that question
- 3 Gather evidence
- 4 Analyse evidence
- 5 Draw inferences and make claims
- 6 (Iterate)

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- 4 Examine associations between cholera and patient characteristics
- 5 Inference: Geographical clustering
- 6 Iterate: What is different about this geographical area?



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# Description and DSOs

Description might...

- ... explore a single case to generate one or more DSOs
- ... compare multiple DSOs or summaries thereof
- ... not involve DSOs at all

# Generating DSOs

country	continent	lifeExp	pop
Austria	Europe	79	8199783
Equatorial Guinea	Africa	?	?
Iceland	Europe	81	301931
Iran	Asia	70	69453570
Kuwait	Asia	77	2505559
Lesotho	Africa	42	2012649
Serbia	Europe	74	10150265
Sudan	Africa	58	42292929
Sweden	Europe	80	9031088
Trinidad and Tobago	Americas	69	1056608

# Comparing DSOs

country	continent	lifeExp	pop
Lesotho	Africa	42	2012649
Equatorial Guinea	Africa	51	551201
Sudan	Africa	58	42292929

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- Causal hypothesis generation



# Common Methods of Descriptive Evidence Gathering

- Documentary analysis
  - Archival research
  - Text analysis
- Interviewing
  - Surveys
  - Elite interviews
  - Focus groups
- Direct observation
  - Participant-observation

# Question → Method

The choice of what methods to use should **always** follow from the research question being asked.

# Some RQ/Method Pairings

<b>Research Question</b>	<b>Evidence</b>
How do cases differ?	DSOs
What do people think?	Interviewing
What happened?	Archival analysis
How does this institution work?	??

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<b>Research Question</b>	<b>Evidence</b>
How do cases differ?	DSOs
What do people think?	Interviewing
What happened?	Archival analysis
How does this institution work?	??

Yet, we often use non-obvious methods, and multiple methods.

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- How do we arbitrate between conflicting evidence?
- How do we decide if evidence is “true”?
- How do we know when we have “enough” evidence?

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# What counts as text?

- Primary sources
  - Raw, original evidence
- Secondary sources
  - Interpretations of raw evidence
- Tertiary sources
  - Compendia or indices of two other types of sources

# How do you use texts?

- Think about your own experience reading, interpreting, and interacting with textual sources for academic purposes (e.g, for writing a term paper).
  
- With the person sitting next to you, discuss:
  - 1 The process by which you try to understand the meaning and content of texts
  - 2 How you choose texts to read

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- Text as description
  - Rely on text in lieu of direct observation
  - What do we gain? What do we lose?

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  - Rely on text in lieu of direct observation
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- Text as DSOs
  - Treat texts as units (see MT Week 7)

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- 1 Source “Quality”
- 2 Subjectivity and differing perspectives
- 3 Historiography
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But these are really the challenges of *any* research!

