INTRODUCTION

- 1 The topic
- 2 The course
- 3 Notes
- 4 Coursework



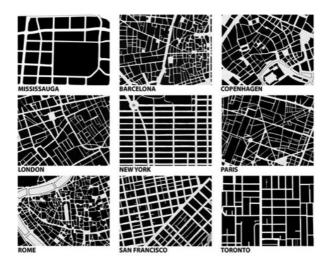
Reality is predictable

Los Angeles Times | ARTICLE COLLECTIONS

Stopping crime before it starts

Sophisticated analysis of data can sometimes tell police where criminals are headed. It's academic now, but the LAPD plans to get involved.

Reality is visualizable



Reality is multidimensional















Bad Religion (317 plays) David Bowie (220 plays) Isis (202 plays)

Horace Andy (178 plays) Army of the Pharaohs Biosphere (168 plays) (177 plays)













Bibio (162 plays)

Antonio Vivaldi

Neil Young (125 plays)

King Crimson (116 plays)

H.P. Lovecraft (116 plays)

Virgin Prunes (115 plays)





(143 plays)





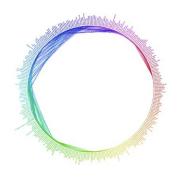


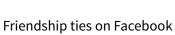


(102 plays)

Gonzales (100 plays)

Reality is relational





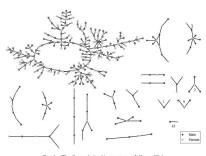


Fig. 2.—The direct relationship structure at Jefferson High

Sexual ties in high school

Data stand as professional assets

OECD Health Data 2010: Statistics and Indicators

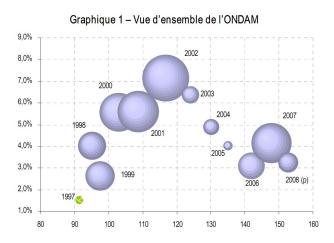
AVAILABLE NOW - October 21st - Internet update for OECD Health Data 2010

OECD Health Data 2010, released on 29 June 2010, offers the most comprehensive source of comparable statistics on health and health systems across OECD countries. It is an essential tool for health researchers and policy advisors in governments, the private sector and the academic community, to carry out comparative analyses and draw lessons from international comparisons of diverse health care systems.

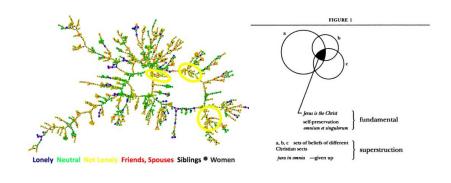
What is OECD Health Data 2010



Data stand as policy expertise



Interpretation is key to all analysis



Loneliness in social networks

Sets of Christian beliefs

Interpretation is difficult

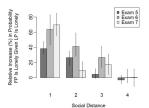


Figure 2. Social distance and localizes in the Framingham Social New Level. This figure shows for each exame in percentage necessive level. This figure shows for each exame in percentage necessive level. The figure shows for each exame in the liabelhood a given focal participant (FP) is hooly if a forest or family member as a certain social distance is howely (beete lonely) is defined as feeling loosly more than once a week). The relationship is strongest between individuals who are directly connected. but it remains significantly generate than zero as social distances up to three degrees of separation, meaning that a person's localizens is associated with the loneliness of people up to three degrees removed from them in the network. Values are devived by companing the conditional protection (if with peoplogy and incidence of localizens preserved) in which the same number of lonely participants are readoully distributed. Linked participant (IF) upon the contraction of the lone of localizens preserved in which the same number of lonely participants are readoully distributed. Linked participant (IF) were lonely distributed. The lone of localizens preserved is distance refers to PEP in the lone of lone of

With explanation



Without explanation

Interpretation is what this course is eventually about



Questions

- What is the **measurement** method for each axis?
- What is the **probability** of 2am being the cutoff point?
- What is the **shape** of the time/productivity relationship?

Bias and measurement

Observational data

- Survey design
- Sampling strategy
- Question wording

Official statistics

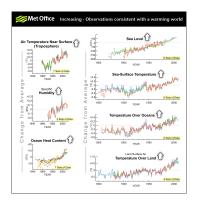
- Unreliable aggregates
- Low statistical capacity
- Ecological fallacies

Bias and manipulation

- Media coverage
- Political spin
- Policy implications

Add to that:

- scientific fraud,
- data ethics,
- doubt-mongering,
- publishing bias, ...



The weirdest people in the world?

"The findings suggest that members of Western, Educated, Industrialized, Rich, and Democratic (WEIRD) societies, including young children, are among the least representative populations one could find for generalizing about humans."

Joseph Henrich

Department of Psychology and Department of Economics, University of British Columbia, Vancouver V6T 1Z4, Canada ioseph.henrich@amail.com

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Course essentials

Core learning objectives

- Data management
- 2 Statistical estimation
- Regression modelling

Core teaching blocks

- Statistical theory
- Statistical computing
- Tons of social science

- ...readings
 - ...coding
- ...research

Course mechanics

Requirements

- Attendance
- Homework
- No plagiarism

Grading

- Code and paper
- Draft, revised, final
- Project management



This won't work.

Course homework

Readings

- Urdan
- Feinstein and Thomas
- Stata Guide

... essential textbook

... details on modelling

... practical walkthrough

Coursework

- Replicate the weekly do-files
- Code your own data analysis
- Write an empirical research paper

Course logistics

Elect a student representative!

No estimation without representation. One (wo)man, one vote.

Any questions so far?

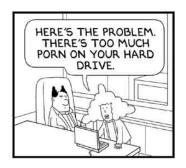
Do not worry about deadlines, they will be discussed in class.



A note on computers

Despite what the general computing industry tells you, computers are more than

- Music players
- Facebook terminals
- Porn stashes



Important

This course requires that you learn how to work with a computer. Program or be programmed.

A note on software

We will be using Stata throughout the semester.

Software details:

http://www.stata.com/



Requirements

To operate Stata efficiently, you need

- to use a fairly recent computer with a bit of disk space
- to understand how files are organized on your hard drive
- to type and 'run' commands that follow a specific syntax

A note on slides

The course slides are absolutely insufficient to complete the course requirements. You really need to read the handbook chapters.

There is no way out of it.



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A note on emails

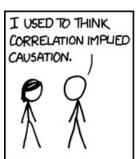
Rules

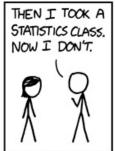
- 11 Start your email subject line with the "SRQM:" prefix.
- 2 Describe the content of the email in the subject line.
- Attach your code and results to your question(s).

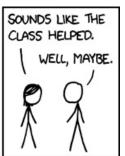
Google

- Open a Google Mail account to use Google Documents
- You can use either Google Mail or your Sciences Po email
- You can redirect your Sciences Po email to Google

Welcome on board!







Coursework

Code

```
* Get the do-file.

srqm fetch week1.do
* Open the do-file.
doedit code/week1
```

Replication

- Read the do-file and execute its commands.
- Practice searching and describing variables.
- Start thinking about which dataset to analyse.