Introduction

- 1 The topic
- 2 The course
- 3 Computers

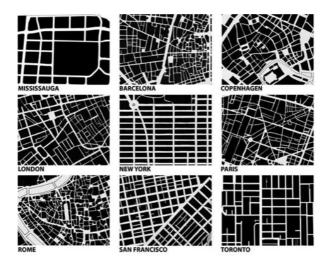
Reality is predictable

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)





Bibio (162 plays)



Antonio Vivaldi (143 plays)



Neil Young (125 plays)



King Crimson (116 plays)



H.P. Lovecraft (116 plays)

(177 plays)



Virgin Prunes (115 plays)





Wax Tailor (104 plays)





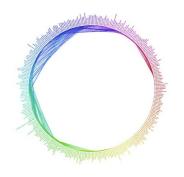


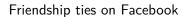
7L & Esoteric (102 plays)



Gonzales (100 plays)

Reality is relational





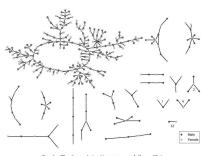


Fig. 2.—The direct relationship structure at Jefferson High

Sexual ties in high school

Data stand as professional assets

OECD Health Data 2010: Statistics and Indicators

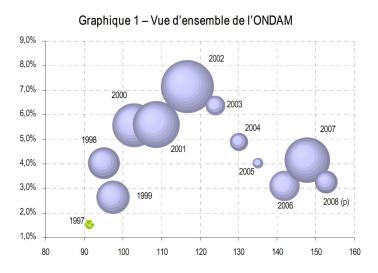
AVAILABLE NOW - October 21st - Internet update for OECD Health Data 2010

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.

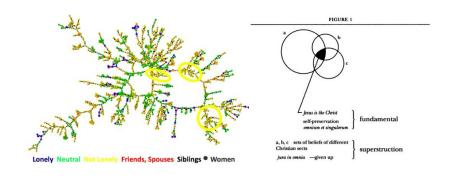
• What is OECD Health Data 2010



Data stand as policy expertise



Interpretation is key to all analysis



Loneliness in social networks

Sets of Christian beliefs

Interpretation is difficult

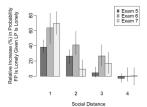


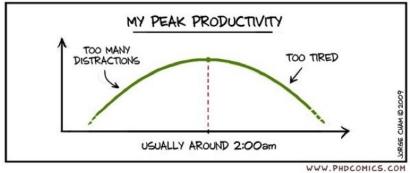
Figure 2. Social distance and locolitors in the Framingham Social Network. This figure shows for each exam the proresung increme the likelihood a given ficeal participant (FP) is lonely if a friend or family member at a certain social distance is lonely (where lonely is defined as feeling lonely more than once a week). The relationship is stronger between individuals who are directly connected, but it remains distinct the strength of the stre

With explanation



Without explanation

Interpretation is what this course is eventually about



- www.rnpcomes.com
- What are the **measurements** of the axes?
- What is the **probability** of 2am being the cutoff point?
- What is the **shape** of the time/productivity relationship?

Internal biases

In observational data from surveys:

■ Survey design and **sampling strategy**:

```
"Please fill in this 367-page long questionnaire"
"Answer our questions and win an iPad! (perhaps)"
"We surveyed knowledge of SDMX among toddlers."
```

■ Question design and **measurement error**:

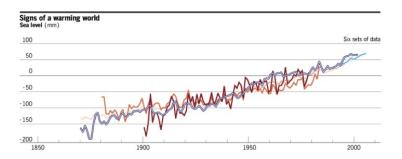
```
"Are you a racial supremacist pig?"
"What do you like most, inflation or Star Wars?"
"Do you support Aliina Koospürati's new coalition?"
```

In official statistics:

```
"[GDP figures] are for reference only" (Chinese official, 2010)
```

External biases

- Media coverage
- Political spin
- 'Merchants of doubt'



WEIRD biases

BEHAVIORAL AND BRAIN SCIENCES (2010), Page 1 of 75 doi:10.1017/S0140525X0999152X

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

joseph.henrich@gmail.com

 $http://www.psych.ubc.ca/{\sim}henrich/home.html$

Steven J. Heine

Department of Psychology, University of British Columbia, Vancouver V6T 1Z4, Canada

heine@psych.ubc.ca

Ara Norenzayan

Department of Psychology, University of British Columbia, Vancouver

V6T 1Z4, Canada ara@psvch.ubc.ca



Course essentials

Core learning objectives

- Data management
- Statistical hypotheses
- Model-driven research

Core teaching blocks

- Statistical theory (readings)
- Statistical computing (programming)
- Tons of social science (research)

Course essentials

Requirements

- Attendance
- Homework
- No plagiarism

Grading

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



This won't work.

Homework

Course website

http://f.briatte.org/teaching/quanti/

Readings

- Feinstein and Thomas: default
- Urdan: shorter, less explained
- Stata Guide: practical walkthrough

Coursework

- Replicate session do-files
- Code your own data analysis
- Write up a empirical research paper

Logistics

Elect a student representative.

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

Any questions so far?

Do not worry about deadlines: these will be discussed in class.

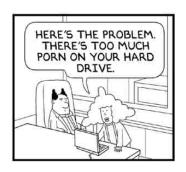


Computers

Despite appearances, computers are more than

- Music players
- Facebook terminals
- Porn stashes

They can also be used to do, like, serious stuff.



Important

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

Example: Saving files

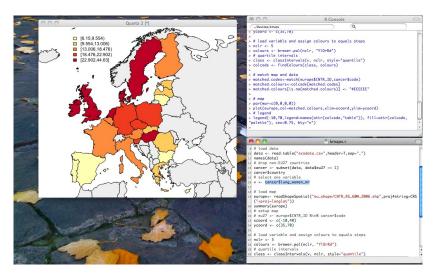
Do not save online files by single-clicking them. This is good for opening holiday pictures attached to an email on the fly, not for working with files that need to be decompressed or archived.

Instead, use the "Save As..." or "Download As..." right-click menu item of your browser to save the file at a precise location.

World Values Survey 2000: dar-	cot (course)
	Open Link in New Tab
Replication of Session 3: do-file	Open Link in New Window
	Open Link in Incognito Window
Replication of Session 6: do-file	Save Link As
	Copy Link Address
Replication of Session 7: do-file	Сору

Computer skills

Everything you learn will be useful to run other projects.



Computer skills

It would be best for all to start the course with computer issues solved. Let's pause here and solve as many issues right now.



© Scott Adams, Inc./Dist. by UFS, Inc.

Course slides

The course slides contain very basic guidance and are absolutely insufficient to complete the course requirements.

More generally, slideware is a teaching aid, not a learning tool. Watching slides does not compensate documentation.



Copyright 3 2000 United Feature Syndicate, Inc. Redistribution in whole or in part prohibited

Welcome, and thank you.

