Big data
Big data

Science Magazine
Small data
Old data

Results from 1950s on heart disease:
- Cigarette smoking increases risk
- Exercise decreases risk
- Obesity increases risk
Results from 1960s on heart disease:
- Cigarette smoking increases risk
- Exercise decreases risk
- Obesity increases risk
German education minister quits over PhD plagiarism

Annette Schavan's resignation over plagiarism ahead of election is second case to hit Merkel's government in two years

The Guardian
Re-using data
Rare data

Image courtesy of rajcreationzs at FreeDigitalPhotos.net
143,708 hospital admissions for 224 infections
Big China

**Daily number of deaths**

- Time: 2010 to 2014
- Graph shows fluctuations in daily deaths over the years.

**Percentage of deaths**

- Month: January to December
- Graph shows a peak in the percentage of deaths in December, with a significant drop in the summer months.

Additional notes:
- Deaths for:
  - No education (6%)
  - Nursing homes (12%)
  - To hospital (7%)
More winter deaths for:

- those with no education (6%)
- family wards/nursing homes (12%)
- on the way to hospital (7%)
Big picture

Medicine is plagued by:

- knowledge gap (lack of evidence)
- knowing gap (ignorance of evidence)
- knowing-action gaps (not acting on evidence)

Harlan Krumholz, Yale University