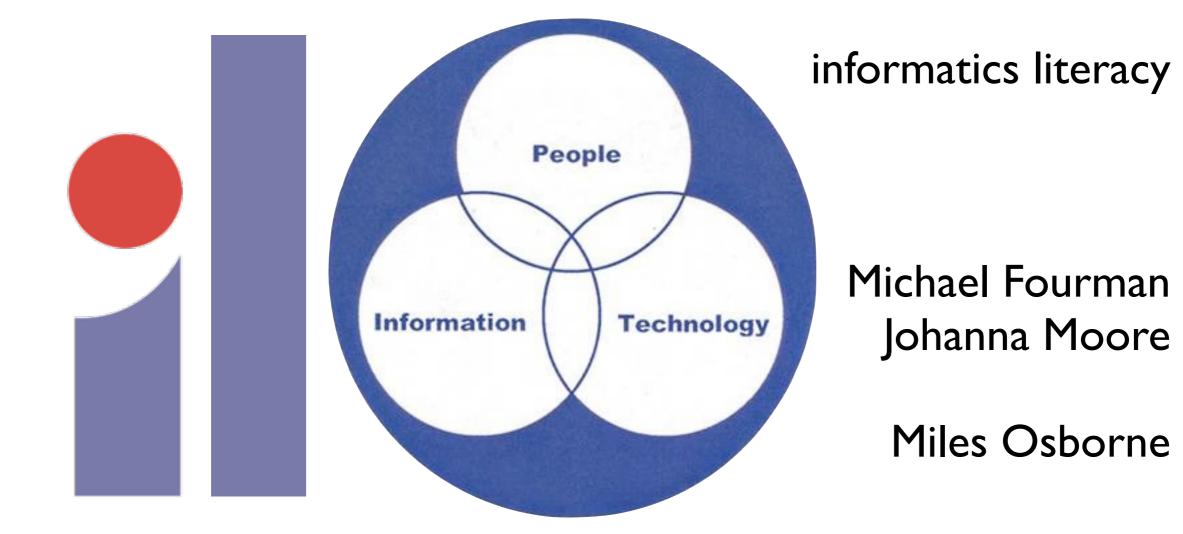
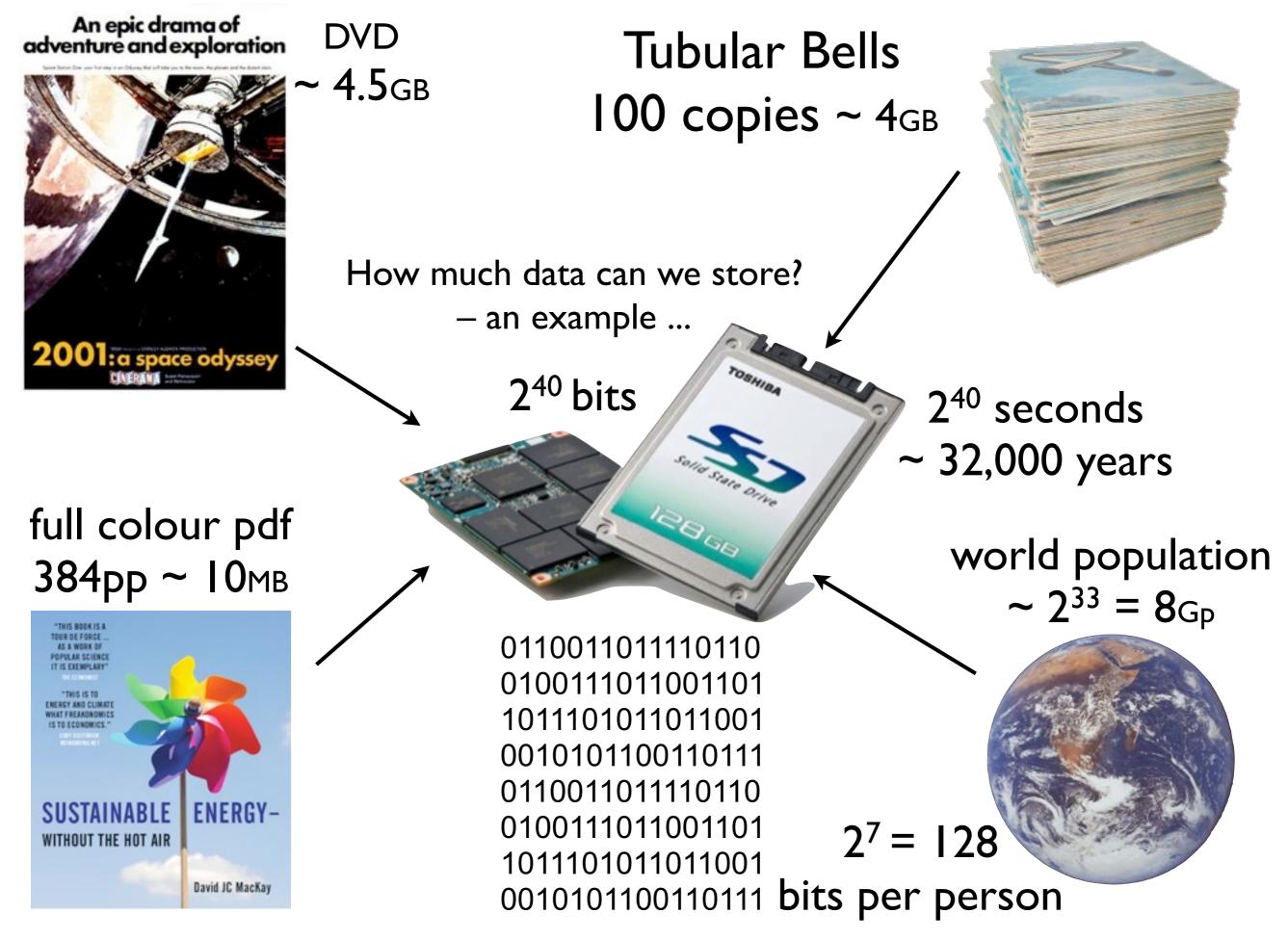
## Plan

Social issues Data and Information How the Internet works What computers can't do Natural Language Multimedia Search Privacy and security



### informatics in society 2011-09-20





Sunday, 4 December 11

roughly 32 million seconds per year - say 2^25

so 2^40 seconds is roughly 2^15 years (actually 34842.1652 years)

- or we could store 32,000 bits (1000 numbers?) every second for one year

12,800 copies of the book - 5 books per week for a lifetime

3,200 copies of the LP - 8 hours per day for more than a year

30 copies of the DVD

128 bits per person – enough to encode both parents and best friend position 360 degrees 9 bits + 180 degrees 8 bits

2 <sup>3</sup> 2x2x2	8
2 <sup>10</sup> 2x2x2x2x2x2x2x2x2x2x2x2	I,024 kilo
2 <sup>20</sup> 2x2x2x2x2x2x2x2x2x2x2x2x2 x 2x2x2x2x2x	I,048,576 mega
2 <sup>30</sup> 2x2x2x2x2x2x2x2x2x2x2x2 2x2x2x2x2x2x2x	I,073,74I,824 giga

## 1984 – a long time ago

• cctv



digital footprint



browser history search history location history

online photos



#### Did the CIA Do Enough to Protect Bin Laden's Hunter?



Sunday, 4 December 11





# <u>DigiNotar</u>



- a Dutch certificate authority
  - trusted third party



- assign certificates to government bodies
- issued hundreds of fraudulent certificates in July 2011 for Google, Yahoo!, Mozilla, WordPress and The Tor Project *inter alia*

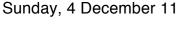
## Wikileaks

ACollectionOf**Diplomatic**HistorySince\_1966\_ToThe\_PresentDay#

- Julian Assange gave the Guardian an encrypted file and a password.
- The encrypted file was widely mirrored.

WikiLeal

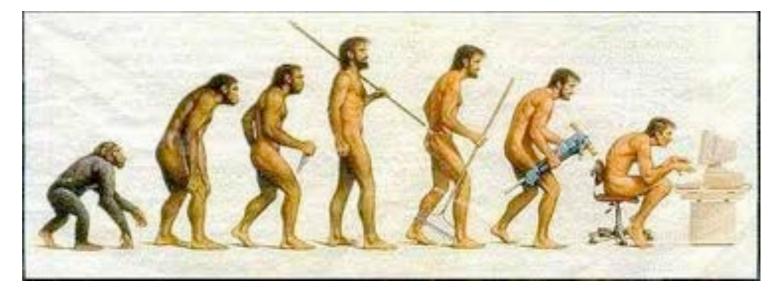
- David Leigh published the password.
- Domscheit-Berg told Freitag both were available.
- The unredacted cables became public.





An essay:

## First assignment



- The Internet : for better or for worse
- Include a list of sources
- 1,000 1,200 words



## upcoming

- 21/22 Lab Introduction
- 26 Monday Guest lecture 17:00-18:00 G.07
- Wednesday 5 October 16:00-17:00
  - Special Lecture (no extra charge :-)