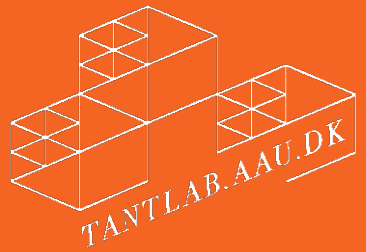
Hvad er digitale metoder?

Et lynhurtigt overblik fra min stol



Web 2.0
Participation
'Produsage' & 'crowd-intelligence'
Open data
Algorithms
Platforms

Web 1.0
Surfing
Publishing
Websites

Prehistory of the digital revolution:
Computing
Automatic data treatment
Decentralised networks

2000s: Social Media

2000: Google Ad Words

2000s: Algorithmic search and curation

2000: Dot-com crash

Late 1990's: Search engines, blogs, wikis

1993: First website

1989: World Wide Web

1975: First PC

1960s: ARPANET & agent-based modeling

1950s: Neural networks

1930's: network science

1911: IBM founded as the Computer Tabulating Recording Company

1889: Punch Cards

TANTLAB.AAU.DK

2003 2004 2005 2006

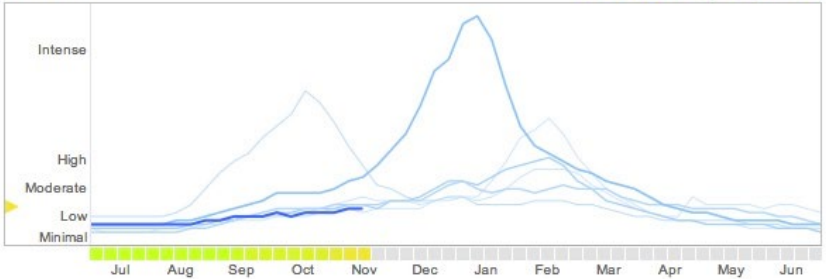
2007 2008 2009

Explore flu trends - United States

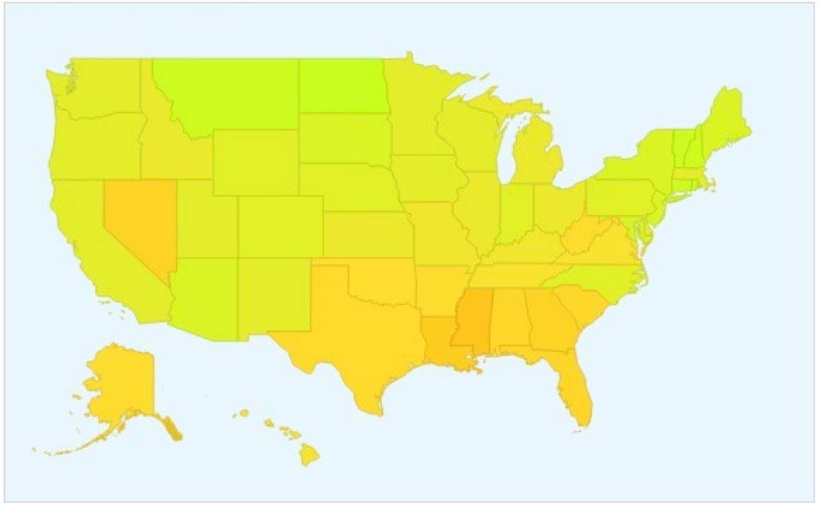
We've found that certain search terms are good indicators of flu activity. Google Flu Trends uses aggregated Google search data to estimate flu activity. Learn more »

National

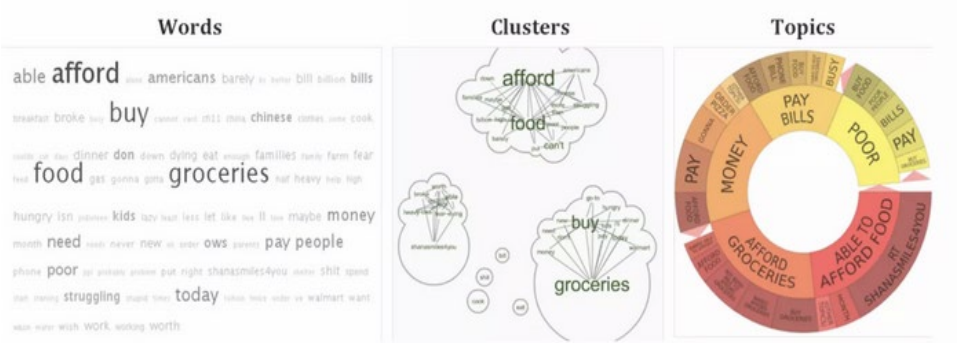
2013-2014 Past years ▼



States | Cities (Experimental)



UN GLOBAL PULSE



DIGITAL METHODS

RICHARD ROGERS

SOCIAL SCIENCE

Computational Social Science

A field is emerging that leverages the capacity to collect and analyze data at a scale that may reveal patterns of individual and group behaviors.

David Lazer,[1] Alex Pentland,[2] Lada Adamic,[3] Sinan Aral,[2,4] Albert-László Barabási,[5] Devon Brewer,[6] Nicholas Christakis,[1] Noshir Contractor,[7] James Fowler,[8] Myron Gutmann,[3] Tony Jebara,[9] Gary King,[1] Michael Macy,[10] Deb Roy,[2] Marshall Van Alstyne[2,11]

We live life in the network. We check our e-mails regularly, make mobile phone calls from almost any location, swipe transit cards to use public transportation, and make purchases with credit cards. Our movements in public places may be captured by video cameras, and our medical records stored as digital files. We may post blog entries accessible to anyone, or maintain friendships through online social networks. Each of these transactions leaves digital traces that can be compiled into comprehensive pictures of both individual and group behavior, with the potential to transform our understanding of our lives, organizations, and societies.

The capacity to collect and analyze massive amounts of data has transformed such fields as biology and physics. But the emergence of a data-driven "computational social science" has been much slower. Leading journals in economics, sociology, and political science show little evidence of this field. But computational social science is occurring—in Internet companies such as Google and Yahoo, and in government agencies such as the U.S. National Security Agency. Computational social science could become the exclusive domain of private companies and government agencies. Alternatively, there might emerge a privileged set of academic researchers presiding over private data from which they produce papers that cannot be critiqued or replicated. Neither scenario will serve the long-term public interest of accumulating, verifying, and disseminating knowledge.

What value might a computational social science—based in an open academic environment—offer society, by enhancing understanding of individuals and collectives? What are the

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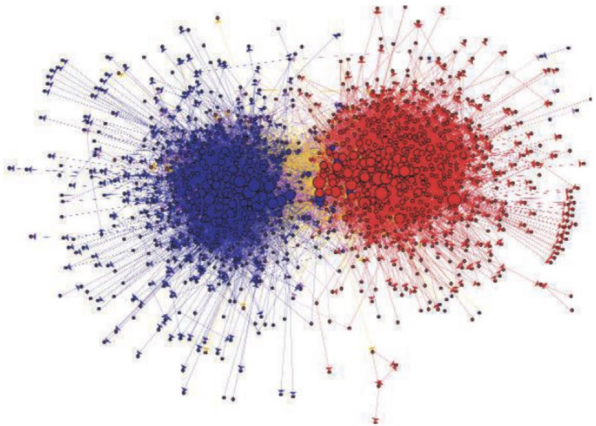


Data from the blogosphere. Shown is a link structure within a community of political blogs (from 2004), where red nodes indicate conservative blogs, and blue liberal. Orange links go from liberal to conservative, and purple ones from conservative to liberal. The size of each blog reflects the number of other blogs that link to it. [Reproduced from (*8*) with permission from the Association for Computing Machinery]


Histopathological
Histologic
pathologists
carcinomas
cancer research
Metastasis
OS
Cancer surgery
resections
rectal
Gastrointestinal
ultrasonography
pregnancy monitoring
computer-aided diagnosis
For mammography
cell detection for histolo
sequencing for
of HIV

My experience so far has been fantastic!

POSITIVE

The product is okay I guess.

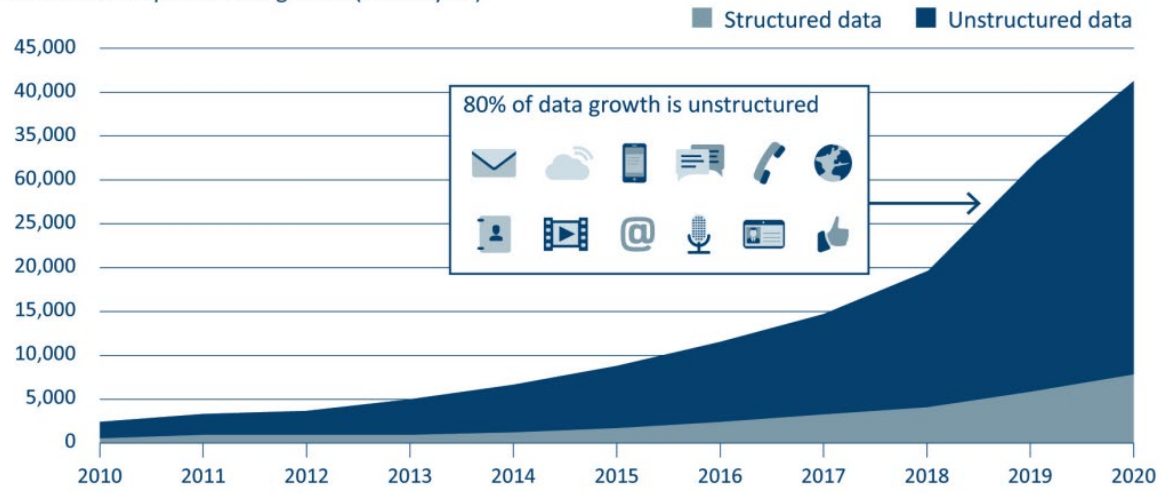
NEUTRAL

Your support team is useless.

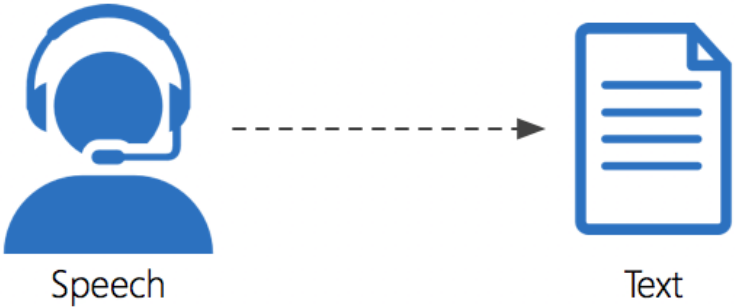
NEGATIVE

Massive growth in unstructured content

Worldwide corporate data growth (in exabytes)



Source: The Digital Universe




BERT

AInterviewer