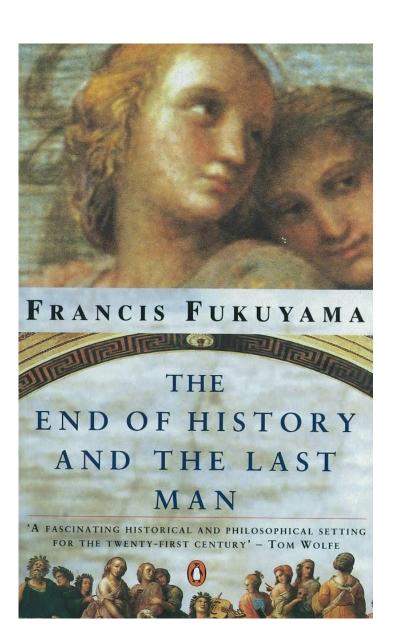


Preservation and Big Data: broad strokes and emerging trend

(aka my guide to the future)

Three narratives of the future 15th September 2008
Data: abundant, inexhaustible, frictionless
Obsolescence as an economic function
And transactional data?

Three futures.

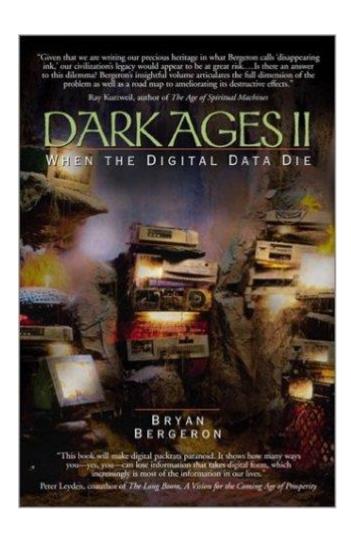


1990's: the End of History

What we may be witnessing is not just the end of the Cold War, or the passing of a particular period of post-war history, but the end of history as such: that is, the end point of mankind's ideological evolution and the universalization of Western liberal democracy as the final form of human government.

Verdict:

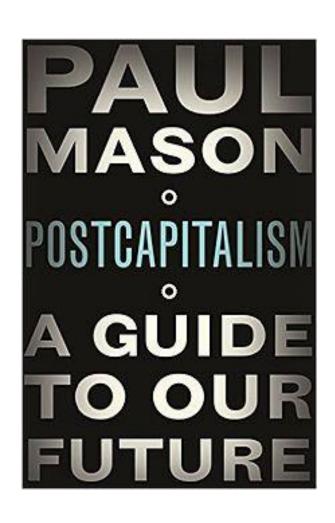
Wrong!



2000's: the Digital Dark Age

'data is at far greater risk than we've ever imagined ... a frightening future, where so much critical information is lost that civilization itself could collapse.

Verdict:Still waiting



2010's: Post Capitalism

"An economy based on information, with its tendency to zero-cost products and weak property rights, cannot be a capitalist economy.

Verdict:

I don't think so: here's why

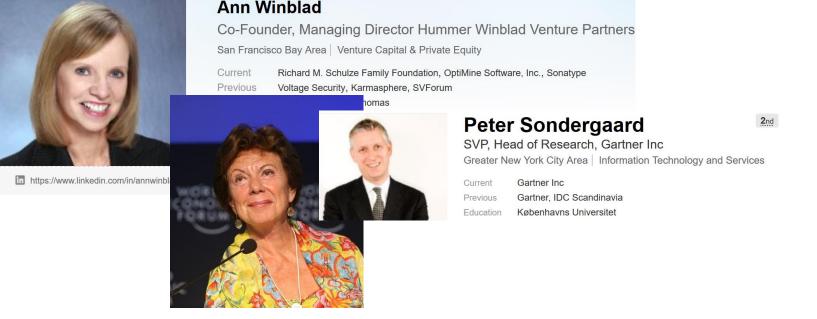


From the End of History to 15th September 2008

"Capitalism's failure to revive has moved concerns away from the scenario of a ten year stagnation caused by overhanging debts towards one where the system never regains its dynamism. Ever.

- Fiat money
- Financialization
- Global imbalances
- Information Technology

Data is the new oil.



Data as the new oil: is (big) data the light at the end of the tunnel?

Abundant Valuable Inexhaustible Frictionless Additive

Abundant?

'It's not like finding a needle in a haystack: it's like finding a needle in Germany.'

(Paul Miller, DPC Briefing Day on Linked Open Data, July 2013)



G. Bembridge 2012 https://www.flickr.com/photos/tipsfortravellers/

Frictionless?

Julian Assange Edward Snowden Alexandra Elbakyan

. . .

Institutional Repositories
EDRMS
Data Sharing



Valuable?



Cash Value: \$6.3bn

Share Valuation: \$104bn

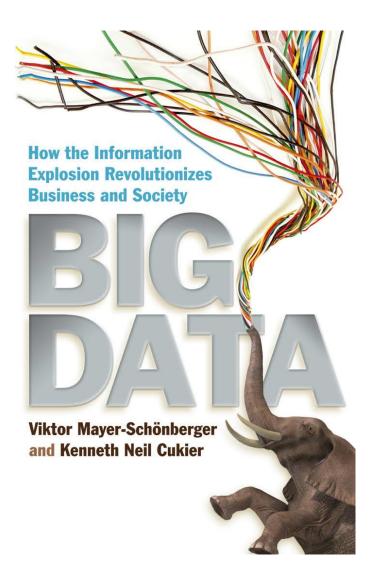
Intangible assets: \$97.7bn

Pieces of data: 2.1trillion

Productive capacity: nil

Production costs (to FB): nil

Additive?



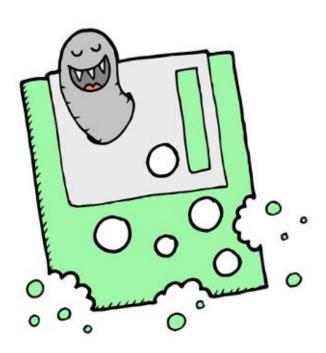
"...The crux of data's worth is its seemingly unlimited potential for re-use: it's option value. ...most of data's value lies in its use not in its possession"

(Mayer-Schonberger and Cukier 2015)

...Digital Preservation Claxon...

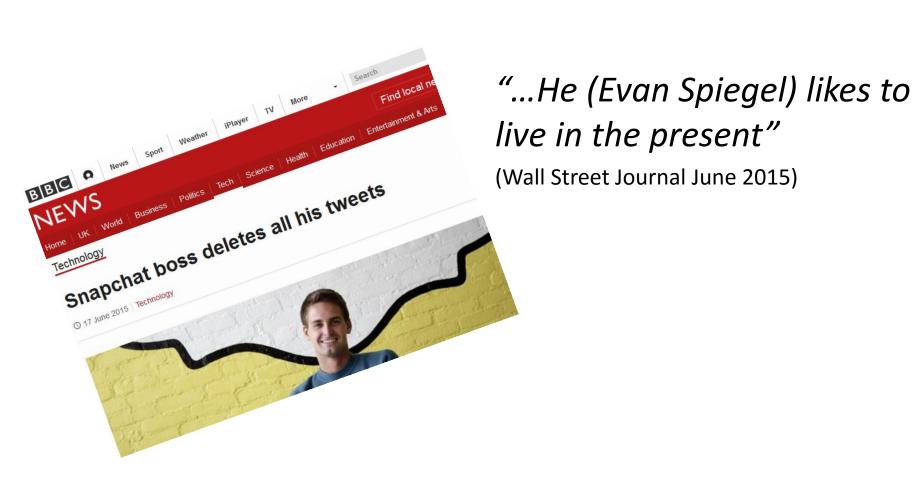
Inexhaustible?

Digital preservation makes bleak reading



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Inexhaustible?



What's the problem?

Media failure Virus or malware

Media obsolescence Poor documentation

Software failure Poor rights management

Software obsolescence Lost encryption key

Inaccessible file format Poor version control

Format migration errors Inadvertent deletion

Loss of media Malicious deletion

Disaster Poor file-naming

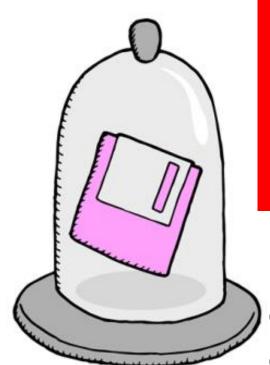
Broken dependency Corruption

Failure of systems integration Link rot

Data Theft

@williamkilbride

Actual Experience?



CORPORATE ABANDONMENT IS AS BIG A THREAT TO THE DIGITAL ESTATE **AS OBSOLESCENCE**

Nook GeoCities GoogleWave

knol

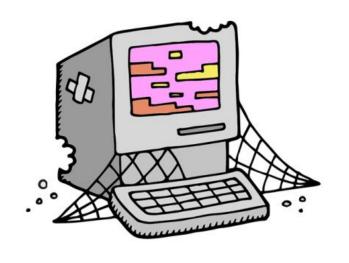
Friends ReUnited GoogleCode Yahoo Mail Classic del.icio.us Blipfoto **MySpaceBlogs**

Yahoo 360

MyBlogLog

BeBo

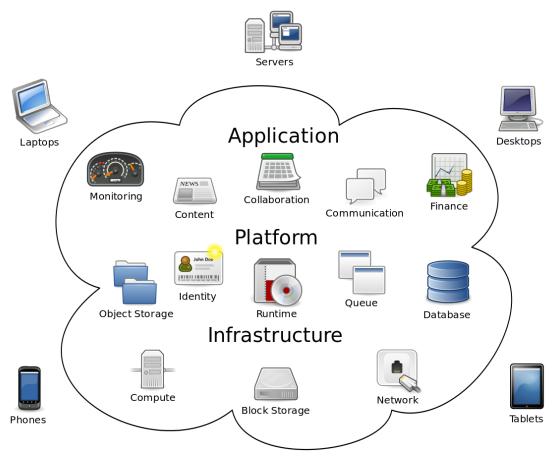
Interdependence as risk



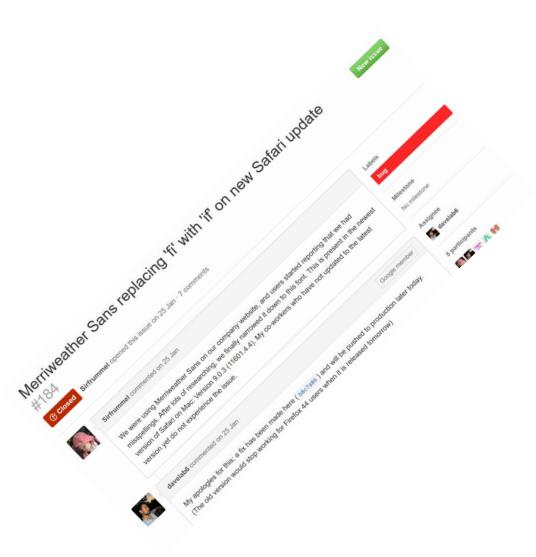


everything is a vulnerability

Cloud Computing



Cloud computing is the delivery of computing as a service rather than a product



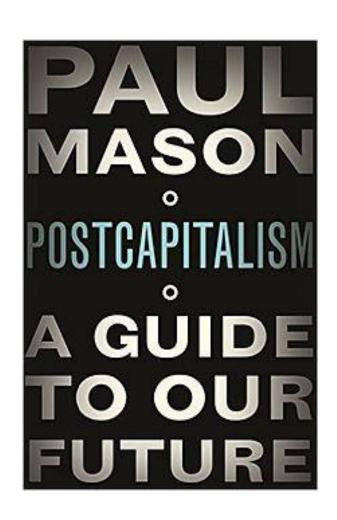
Why this matters?

Long chains of interdependence

When a small glitch or upgrade changes our view on data and the real world impact this has

- Stephen House
- HSBC
- Google Fonts

Obsolescence, link rot and platform instability are practical expressions of neoliberal economics.



2010's: Post Capitalism

"An economy based on information, with its tendency to zero-cost products and weak property rights, cannot be a capitalist economy.

Verdict:

There are problems with the economic analysis: but more than anything, he takes the data for granted. No clear sense of what data is, how it is created and how it exists.

From the End of History to 15th September 2008



"Capitalism's failure to revive has moved concerns away from the scenario of a ten year stagnation caused by overhanging debts towards one where the system never regains its dynamism. Ever.



Fiat money



Financialization



Global imbalances



The Future: Transactional data.

Unless we figure out how to secure this data for access and re-use in the long term we simply cannot derive long term value from it.

Ignorance is no longer an excuse. Sara has taken care of that.

The implications of failure are not a digital dark age. The implication of failure is to extinguishing the one glimmer of light in the darkness already upon us.

Agencies that invest in the development of data but which don't have policies regarding the long-term value and exploitation of these data sets are derelict in their duties.



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