The noise in the archive: Oblivion in the age of total recall

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HOW THE E-MEMORY REVOLUTION WILL CHANGE EVERYTHING

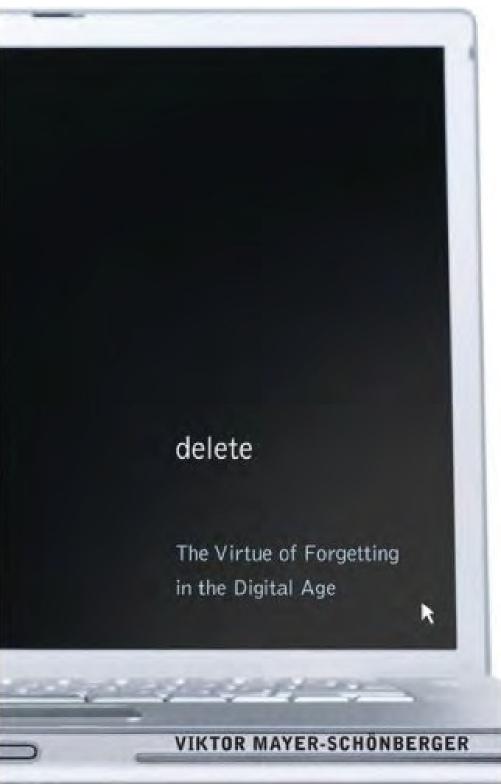


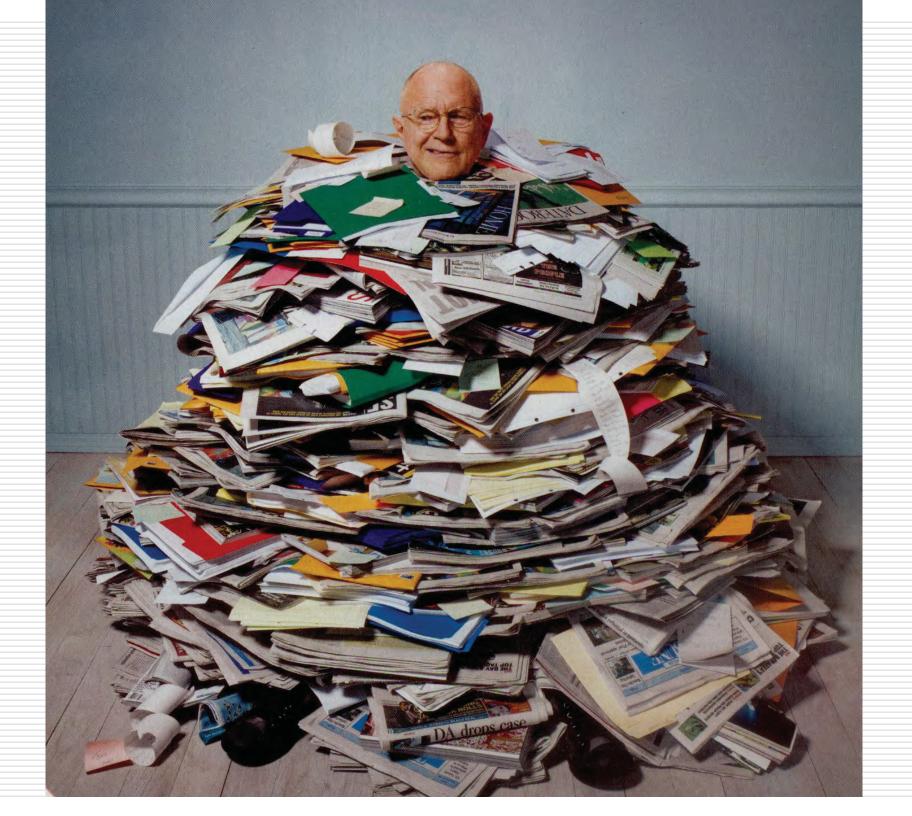
TOTAL RECALL



GORDON BELL AND JIM GEMMELL FOREWORD BY BILL GATES









On the record, all the time

- Bell: "successful people don't shy away from the honest record. ... In court, we ask for the truth, the whole truth, and nothing but the truth. It might be painful, but I believe better memory is really better."
- Mayer-Schönberger: the individual and collective unlearning of "one of the most fundamental behavioral mechanisms of humankind" will leave us unable to act in the present.

Perfect remembering

- Bell: in contrast to its biological counterpart, "digital memory is objective, dispassionate, prosaic, and unforgivingly accurate."
- Mayer-Schönberger: digital information is superior to all previous analog forms of remembering "because it lacks the noise problem," — it does not decay with use, reproduction, or time.

Negroponte, Being Digital

- "From atoms to bits."
- "The medium is no longer the message."

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BLOWN.

BITS

Life, Liberty, and Rappiness atter the Sigital Explosion

HAL ABELSON + KEN LEDEEN + HARRY LEWIS

Bits are bits

"Bits are bits, whether they represent movies, payrolls, expletives or poems. Bits are bits, whether they are moved as electrons in copper wire, light pulses in glass fiber, or modulations in radio waves. Bits are bits, whether they are stored in gigantic data warehouses, on DVDs sent through the mail, or on flash drives on keychains."

Digital exceptionalism

"Law and policies regulating information developed around the technologies in which that information was embodied. The digital explosion has reduced all information to its lowest common denominator, sequences of 0 and 1s. ... The universality of bits gives mankind a rare opportunity. We are in a position to decide on an overarching view of information. We can be bound in the future by first principles, not historical contingencies."

Pure information objects

"Writing in the digital realm are different. They do not depend on the alteration of matter. Such records are very close to 'pure information,' and exist by virtue of a mere succession of the differentiation of 1s and 0s, distinguished by electricity flowing in machine systems. In writing today we deal in pure information objects, unfettered by matter. They can be whisked or shaken or rearranged in an instant." (George Paul, Foundations of Digital Evidence, 2010)

Three propositions:

- 1. The medium is *still* the message. "Form is constitutive of information, not its transparent representation" (Drucker 2009);
- The specific material instantiations of informational artifacts are always undergoing changes, aging, crumbling, acquiring or resisting wear;
- 3. Any "memory regime" includes both structural and intentional forms of forgetting.

Structural forgetting

Unavailability of data

- Incompatibilities exhibited by file formats, hardware platforms, and software applications (digital preservation problem);
- Hard drive crash, improper backups, content licensing that constrain the availability of documents;
- Classification, description, and characteristics of search algorithms induce a certain stratification of archives.

Exclusion

- Through technical processes (the temporal or spatial resolution of a sensor)
- Appraisal policies (Bell only keeps what he reads, not what he's been sent)
- Cultural/legal norms (consent)
- Intellectual property (Jim Gray's laptop)
- Self-selection

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Advanced Search

Maurack Machine

Around the World in 2 Billion Pages

Thanks to a generous grant from the Mellon Foundation, Internet Archive completed a 2 billion page web crawl in 2007. This is the largest web crawl attempted by Internet Archvie. The project was designed to take a global snapshot of the Web.

Please browse through the resulting collection.

Special thanks to the memory institutions who contributed URLs to the crawl. The crawl began with 18,000 websites from over 60 countries.

Web Archiving Services



ARCHIVING THE INTERNET FOR FUTURE GENERATIONS COLLECT IT, MANAGE IT, SEARCH IT ... ARCHIVE-IT

Archive-It allows institutions to build and preserve their own web archive of born digital content, through a user friendly web application, without requiring any technical expertise or hosting facilities. Subscribers can harvest, catalog, and archive their collections, and then search and browse the collections when complete. Collections are hosted at the Internet Archive data center, and accessible to the public with full text search.

With the rapid growth of the Internet and the World Wide Web, millions of people have grown accustomed to using these tools as resources to acquire information; and the availability of electronic information is taken for granted. However, it is a fallacy that if something is on the web, it will be there forever. The average lifespan of a web page is 44 -75 days. There's an urgent need for people to understand that that web is who we are. It's our culture and our social fabric, and we don't want to lose any of it. What is here today might be gone tomorrow.

Archive-It is designed to fit the needs of many types of organizations and individuals. The over 50 partners include: state archives, university libraries, federal institutions, state libraries, non government non profits, museums, historians, and independent researchers.

Contact the Archive-It team for more details about subscribing to this service and to learn more about our Curated and Domain Crawl services. Contract Crawls are for large topic, event or domain collections run by Internet Archive crawl engineers at an institutions' request.

Intentional forgetting







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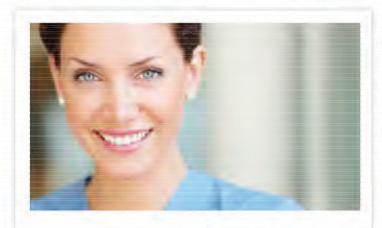
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One more proposition

Like any other media, digital media brings to the table its own dynamics of objectivity and subjectivity, signal and noise, integrity and decay, authenticity and forgery, transparency and censorship, remembrance and repression. These dialectics are never fully determined by the material characteristics of the technology.

Questions

- How can we think of bits as material objects?
- What would a material theory of digital information look like? What would a popular account of a material theory digital information look like?
- How would that theory inform the work of archivists?

Coordonnées

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"A material history of bits"

http://polaris.gseis.ucla.edu/blanchette/papers/materiality.pdf