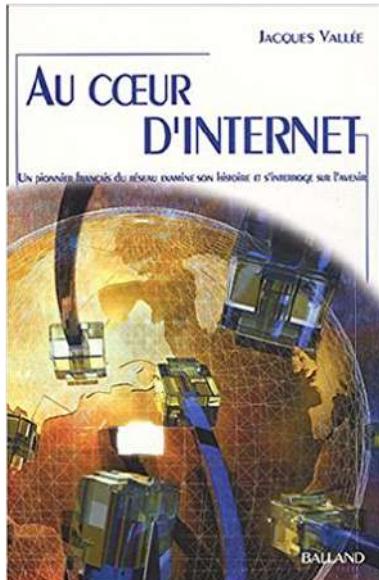


# Histoire des réseaux: enjeux, évolutions et perspectives

Séminaire Histoire et Philosophie de l’Informatique et du Calcul (HEPIC)  
24 avril 2019, Lille

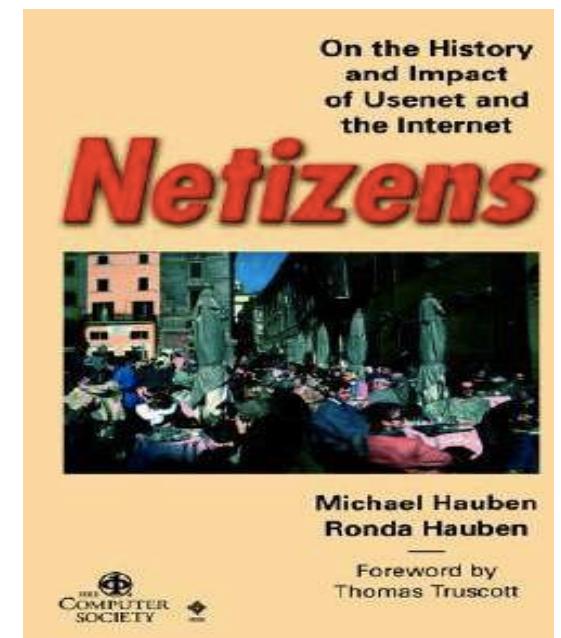
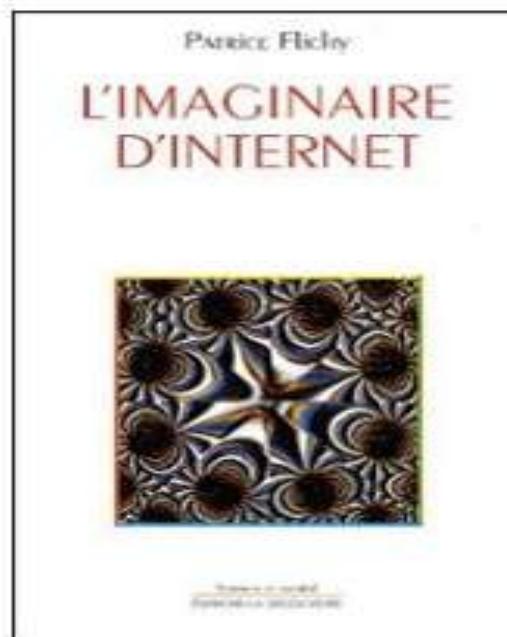
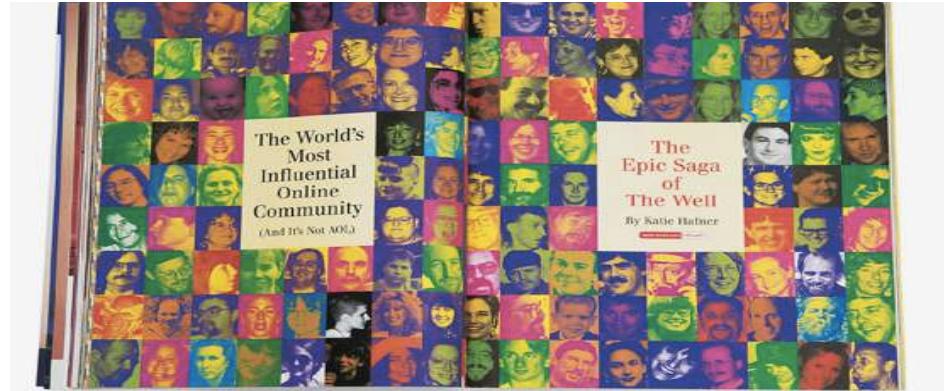
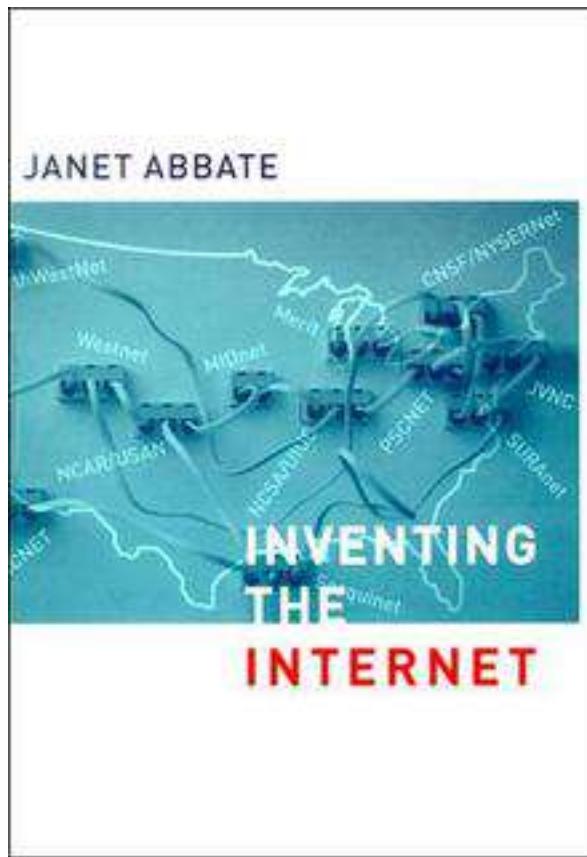
Valérie SCHAFER (C2DH, Université du Luxembourg)

@valerie\_schafer

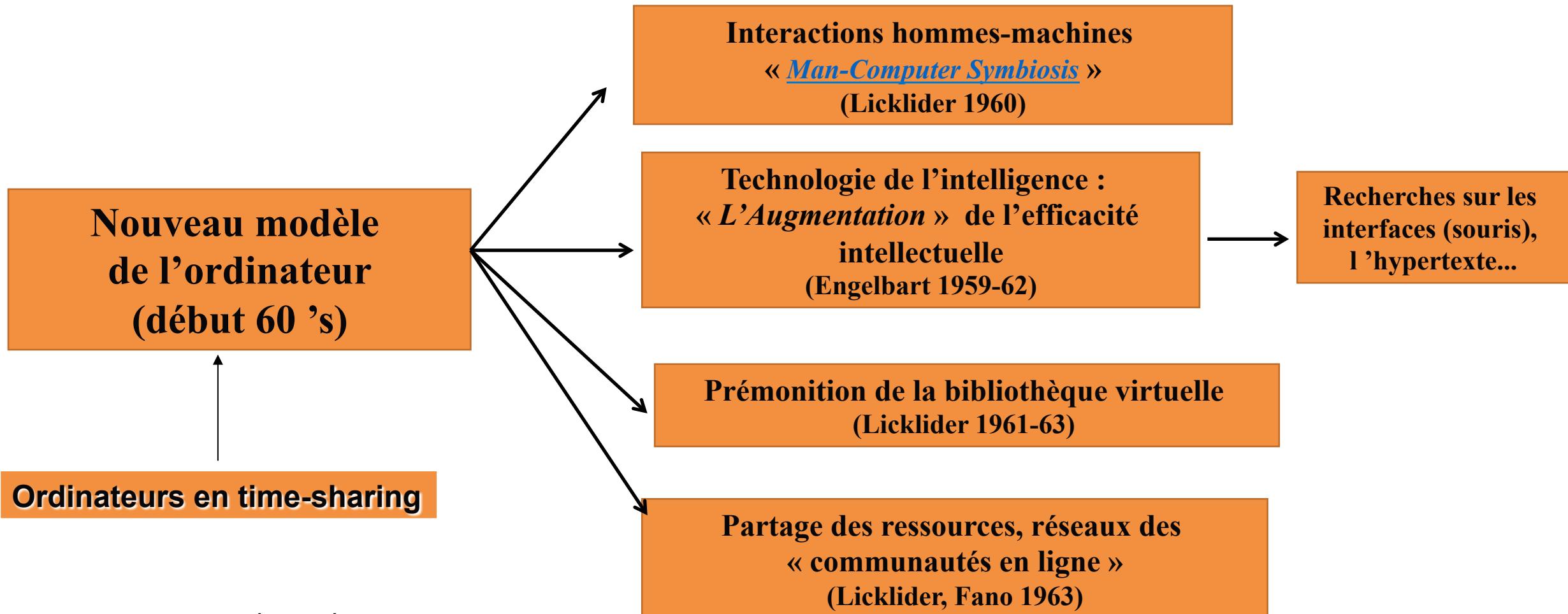


*Il existe une demi-douzaine de livres sur Internet, écrits par des gens qui n'étaient pas là quand il a été développé. On est tenté de commencer un ouvrage sur le sujet par la vieille remarque : « Tout ce que vous savez est faux ! ».*  
Jacques Vallée, *Au coeur d'Internet*, Paris, Balland, 2004, p. 21.

# Les pionniers



# Origines d'internet : L'informatique interactive



# Les IMP (Interface Message Processor)





By L. GORDON CROVITZ

July 22, 2012 6:21 p.m. ET

A telling moment in the presidential race came recently when Barack Obama said: "If you've got a business, you didn't build that. Somebody else made that happen." He justified elevating bureaucrats over entrepreneurs by referring to bridges and roads, adding: "The Internet didn't get invented on its own. Government research created the Internet so that all companies could make money off the Internet."

It's an urban legend that the government launched the Internet. The myth is that the Pentagon created the Internet to keep its communications lines up even in a nuclear strike. The truth is a more interesting story about how innovation happens—and about how hard it is to build successful technology companies even once the government gets out of the way.

**Gordon Crovitz: Who Really Invented the Internet?**

<http://www.wsj.com/articles/SB1000087239639044464304577539063008406518>

# La controverse sur l'invention de l'email

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- ② RHOC Gets Two New Cast Members — Find Out Who! »
- ③ Rob Kardashian's New Instagram Posts Are Proof That He's Fine! »
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Fran Drescher Married: Actress Weds E-Mail Inventor Dr. Shiva Ayyadurai

CELEBRITY NEWS SEP. 8, 2014 AT 12:05PM BY MADELINE BOARDMAN

Share Tweet Pin It



Shiva Ayyadurai and Fran Drescher were married this past weekend. Credit: Jemal Countess/Getty Images

A fairy tale for Fran! *Happily Divorced* actress Fran Drescher was happily married on Sunday, Sept. 7.

The *Nanny* alum, 56, said "I do" to her scientist love, Dr. Shiva Ayyadurai, who is widely credited as the inventor of e-mail. Drescher and Ayyadurai, 50, were first seen together last fall, but had not publicized any plans to tie the knot.

# Des polémiques françaises également

 **Quotidien**   
@Qofficiel

Si vous pouviez tous arrêter ce que vous êtes en train de faire pour remercier [@FrancoisFillon](#) pour Internet, ce serait sympa. **#Quotidien**



J'ai ouvert les télécommunications à la concurrence. Vous pensez qu'il y aurait de l'internet en France si on avait toujours France Télécom avec des fonctionnaires ?

RETTWEETS J'AIME

 **Manuel Valls**   
@manuelvalls



Grâce à F.Fillon, je peux vous écrire ce tweet depuis Évry 😂– Merci à France Télécom, son réseau, ses agents qui ont permis Orange/Free/SFR... [pic.twitter.com/22kcge7bRQ](http://pic.twitter.com/22kcge7bRQ)

17:51 - 7 Janv 2017 · Evry, France

1 545 1 808

**NEXTINPACT** MATERIEL LOGICIEL DROIT ÉCONOMIE INTERNET CULTURE NUM MOBILITÉ BLOG BONS PLANS

À NE PAS MANQUER CES 2017 DNS Free Élection Présidentielle Simulateur Impôt revenus Soldes d'hiver 2017 SFR Décod

Rappelons à François Fillon l'épisode fâcheux de son Comité supérieur de la télématique

Courage, Fillon 265



Au Consumer Electronics Show de Las Vegas, François Fillon, comme les autres politiques, a fait le tour des stands. Le candidat LR à la présidentielle a tenu à rappeler spécialement son apport essentiel pour le développement de l'Internet en France. Non sans faire un épisode moins glorieux.

<https://www.nextinpact.com/news/102797-rappelons-a-francois-fillon-episode-facheux-comite-superieur-telematique.htm>

# Des débats scientifiques

« Mais Fred Turner a choisi une approche différente en posant une question incongrue à tous les ouvrages précédents: pourquoi, alors que tous vos récits sont émaillés d'anecdotes sur la consommation de LSD par vos inventeurs, traitez-vous cette question comme une sorte de folklore décoratif? Pourquoi ne pas prendre au mot Doug Engelbart, Alan Kay, Larry Tesler et tant d'autres, qui n'ont cessé de répéter qu'ils n'auraient pas fait ce qu'ils ont fait sans avoir mis au moins un pied dans la marmite psychédélique des années soixante et soixante-dix? Internet aurait-il été le même s'il n'était pas né en Californie en pleine effervescence hippie? Steve Jobs pensait sérieusement que Bill Gates aurait eu plus d'imagination et fait de meilleurs produits s'il avait pris des drogues pendant sa jeunesse et ne cessa de déclarer que « *prendre du LSD avait été l'une des deux ou trois expériences les plus importantes de sa vie* ».

Préface de Dominique Cardon, in Turner Fred, *Aux sources de l'utopie numérique*, pp. 13-14.

« C'est le travail de Paul Baran qui donna naissance au mythe selon lequel l'objectif du réseau aurait été de communiquer pendant le déroulement d'une éventuelle guerre nucléaire. Des années plus tard, lorsqu'on lui demanda si c'était vrai, il répondit que son but avait été *d'empêcher* l'éclatement d'une guerre nucléaire, en permettant de maintenir les canaux de communication ouverts en cas de crise diplomatique »

Paul E. Ceruzzi, in *Le Temps des Médias*, 2012.

« The perspective of these Internet histories stuck fairly close to those of the network's creators. (...) our perspectives on its history have remained focused on the men who originated it and, as the "greybeards" of the Internet Engineering Task Force, continue to provide technical leadership in the evolution of its protocols.

The Internet which is invented in Abbate's book, and the other works mentioned, is the Internet as understood circa 1994, not the incomparably broader Internet of 2014 ».

W. Dutton, T. Haigh, A. Russell, Introduction du dossier « Histories of the Internet » in *Information & Culture*, 2015.

“We built the Internet hoping that the world would come.

The world did, but the dream that drove so many of us in the early days isn’t the dream of those who are shaping the Internet today.

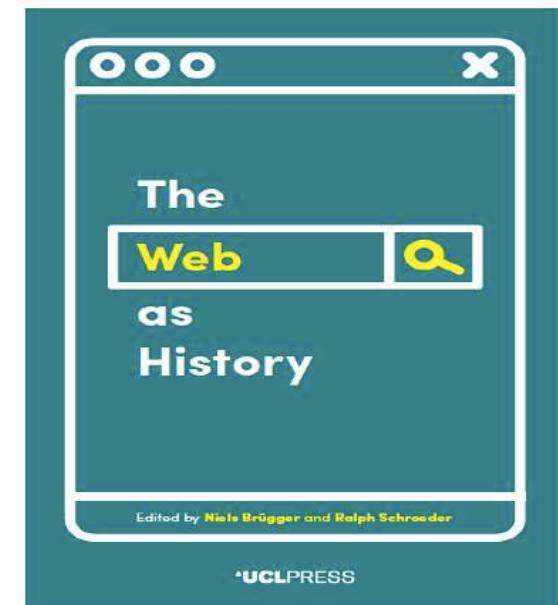
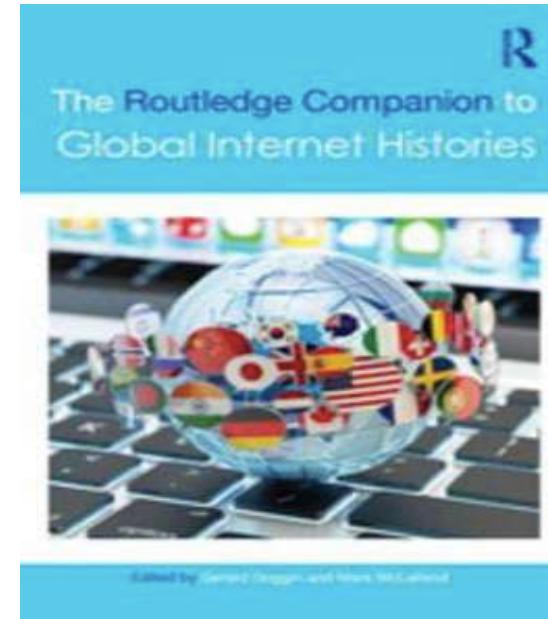
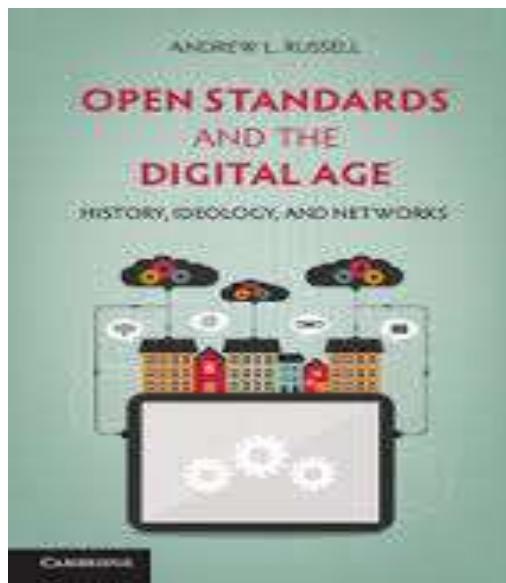
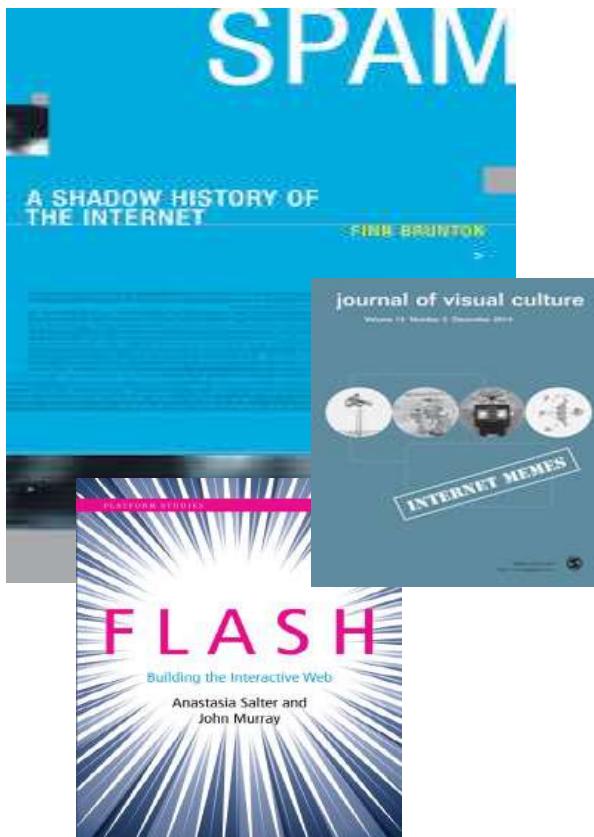
Now what?”

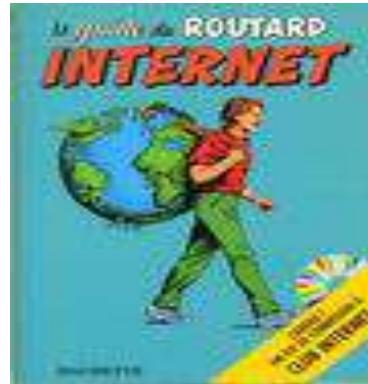
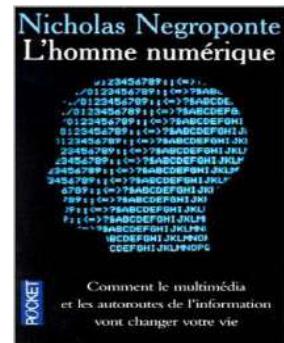
danah boyd, “It’s not Cyberspace anymore”,  
Points, 5 février 2016

The ways in which historians define the Internet profoundly shape the histories we write. Many studies implicitly define the Internet in material terms, as a particular set of hardware and software, and consequently tend to frame the development of the Internet as the spread of these technologies from the United States. This essay explores implications of defining the Internet alternatively in terms of technology, use and local experience. While there is not a single “correct” definition, historians should be aware of the politics of the definitions they use.

[Janet Abbate](#), What and where is the Internet?  
(Re)defining Internet histories, *Internet Histories*  
1-2, 2017, pp. 8-14 |

# 1. De nouvelles tendances historiographiques





## Nos conseils

- Pour un usage exclusif des services Le Kiosque : installez le logiciel Le Kiosque et consultez le guide des services, chaque jour il s'enrichit.
- Pour un usage occasionnel d'Internet : utilisez Le Kiosque et surfez sur Internet sans abonnement via Wanadoo.
- Pour un usage intensif d'Internet : abonnez-vous à Wanadoo et profitez du coût très attractif des communications.

Ma ligne d'assistance Le Kiosque  
0 803 017 000\* 0,09€ TTC/min  
e-mail : [lekiosque@minitel.net](mailto:lekiosque@minitel.net)



Branche Grand Public - Division Multimédia  
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INTERNET ARCHIVE  
**WayBack Machine** <http://> BROWSE HISTORY

452 billion web pages saved over time. [DONATE](#)

<http://www.letenneur.com>

## Entretien avec Stéphane Bortzmeyer – 1ère partie

Le 23 avril 2015, Stéphane Bortzmeyer était notre premier grand témoin interviewé dans le cadre du projet Web90 (par Camille Paloque-Berges et Valérie Schefer) pour revenir sur sa découverte et son expérience du Web des années 90.



## Pubs

<http://urlz.fr/1pmK>  
<http://urlz.fr/1pmQ>  
<http://urlz.fr/1pqq>

informatienne

Mes groupes Accueil Favoris Recherches entre... informatienne

Cliquez sur l'icône en forme d'étoile d'un groupe pour ajouter ce dernier à vos favoris

Consultez récem... fr.natwork.internet fr.aci.cognit... soc.culture.french fr.comp.sys... atari... fr.rec.humour Recherches récent... enseigner le code enseignement c... codage néophytes

Hervé Henri "Euh ?? Qu'est ce que vous appellez une eours exactement ???" et "nous allons baisser le taux de TVA sur les cd roms très rapidement" Jacques Chirac (Partie / France) (28/12/1997)

Jluc2Bdx Votre idole politique change bien volontiers mots et expressions politico-économique pour se financer. Pas étonnant qu'à force de parler comme chez vous, vous me Heriteau Fabrice (28/12/1997)

98 sera t'elle l'année ou les Minitel rempliront les poubelles ? (la France cultive-t-elle son retard sur Internet ?)

Pourquoi toujours cette question de la France cultive-t-elle son retard sur Internet ?) quant les Américains reconnaissent que plus de 50% du Commerce Electronique Mondial se fait en France (Sur Minitel, mais quand même). Je pense que la France a une vraie culture du "Clavier", qui beaucoup n'ont pas.

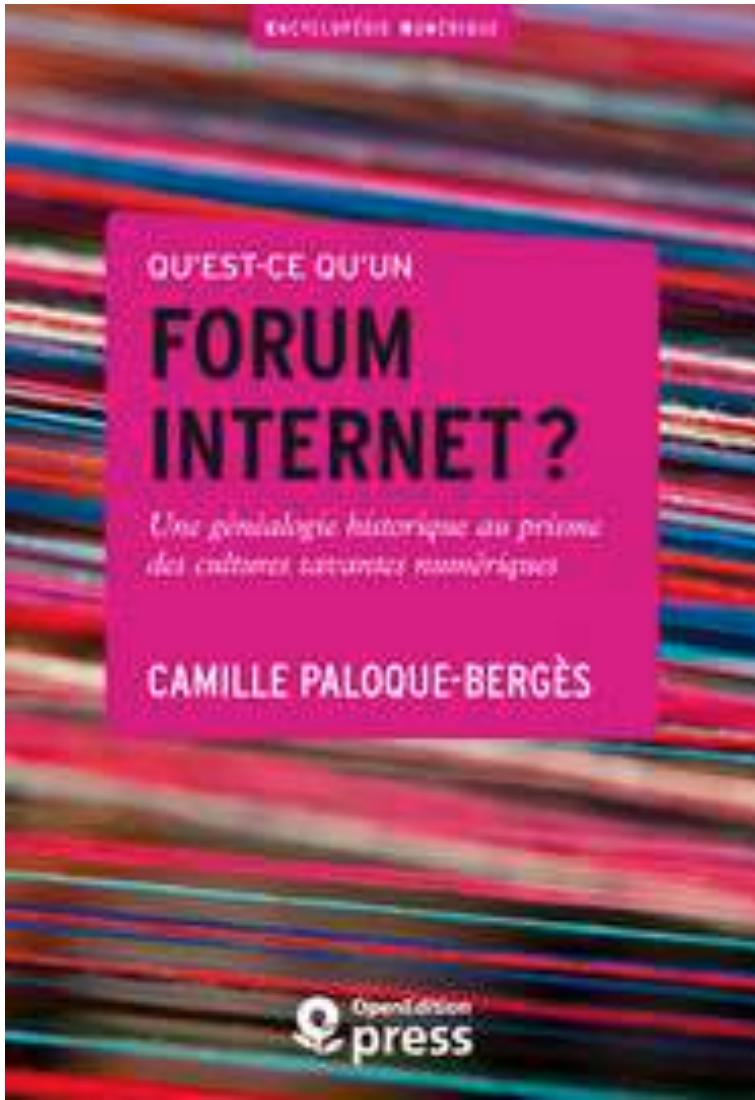
Alors si la vraie question ne nécessite pas, quant pourra non utiliser un "browser" pour consulter ses comptes, faire ses courses, etc? Ou quand les serveurs Minitel seront remplacés par des serveurs Web? ce qui permettrait enfin d'accéder à des serveurs "Utiles" sans avoir à sortir sa carte de sous-œuvre. Ce qui permettrait aussi aux "scieurs" de remobiliser leurs investissements.

Centaurax <Cent...@club-internet.fr> a écrit dans l'article <34A3E480...@club-internet.fr...> afficher le texte des messages précédents -

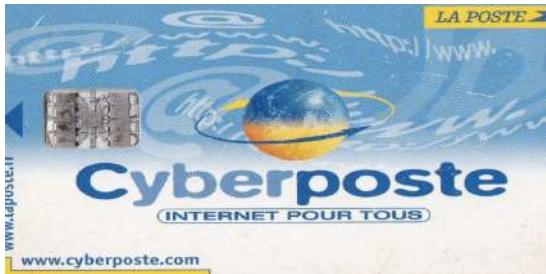
Alex Centaurax a écrit dans le message <34A3E480...@club-internet.fr...> (29/12/1997)

J.P. Kuypers In article (Dans l'article) <BBBHaig\$Spj89...@news2.pratico.fr>, "Alex" <ban...@usa.net> wrote (dovrait) : (29/12/1997)

W.T. Coppersmith Je ne suis pas de l'avoir que la nationalité des utilisateurs de l'internet soit la question la plus importante (bien que c'est certain que si mes amis en France pourraient (30/12/1997)

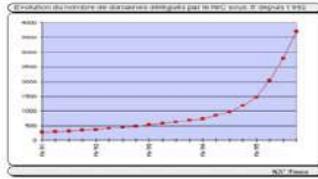


# Accès publics

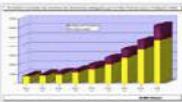


## Statistiques sur l'Internet en France, en Europe dans le monde, la charge de nos serveurs DNS.

### Evolution du nombre de domaines sous .fr



Evolution du nombre de domaines installés en France depuis 1991  
(10k, dernière modification le 16/05/97).



Evolution du nombre de domaines installés par trimestre en France  
(95/96)  
(18k, dernière modification le 16/05/97).

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[Statistiques]  
[English version] [Crédit]

Pour toutes remarques ou commentaires au sujet de cette page  
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NETWORK INFORMATION CENTER  
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nic.fr

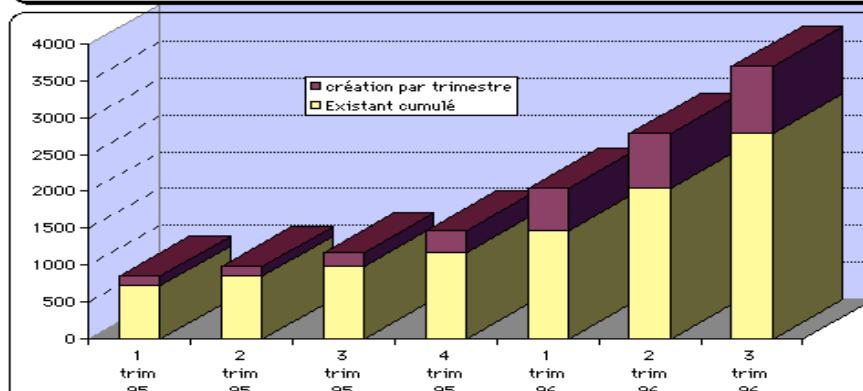
wayback machine

NIC France FR-NIC  
NIC France Pages Internet  
NIC France Infos WHOIS

PAGES INTERNET

Annuaire des noms de domaines français

### Evolution du nombre de domaines sous fr délégués par le NIC depuis 1995



NIC France

http://www.nic.fr/Annuaire/index.html

47 captures  
8 avr. 97 - 25 nov. 06

Go | AVR. MAI JUIN  
1996 5 1997 1999

### Annuaire des noms de domaines de la zone .FR

A la suite d'une plainte de la part de France Télécom, nous interdisant d'utiliser le terme "Pages Jaunes (TM)" pour désigner l'annuaire des noms de domaines de la zone .fr (Le terme "Pages Jaunes (TM)" étant une marque déposée par France Télécom), nous nous sommes donc résignés à retirer toute allusion au terme "Pages Jaunes (TM)" propriété de France Télécom. Ceci nous a permis de donner naissance aux Pages Internet.

Tapez le mot clé :  Rechercher Options

- **Listes des domaines français**  
*Nouveaux domaines / Domaines en créations*  
*Liste alphabétique des domaines*  
*Tables de correspondance d'adresses X400-Internet*
- **Marques (.TM.FR)**  
*ABCDEF GHIJKLMNOPQRSTUVWXYZ*  
*1234567890*
- **presse.fr**  
*Presse, Journaux, Publications*
- **ccifr**  
*Les Chambres de Commerce et de l'Industrie*
- **notaires.fr**  
*Les Cabinets d'Avocats*
- **la zone française (.fr)**  
*ABCDEF GHIJKLMNOPQRSTUVWXYZ*  
*1234567890*
- **gouv.fr**  
*Gouvernement, Ministères, Administrations*
- **asso.fr**  
*Les Associations*
- **barreau.fr**  
*Les Cabinets d'Avocats*
- **Les pays francophones** new!  
*Les pays de langue française*

223 captures

4 avr. 97 - 13 oct. 13



# Welcome to... Bienvenue à la CCI d'Amiens!



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For further information, contact us at [olivier.leclercq@www.amiens.cci.fr](mailto:olivier.leclercq@www.amiens.cci.fr)

**UNDER CONSTRUCTION**

## HISTORY IS OUR FUTURE

*And we've been trashing our history*

Archive Team is a loose collective of rogue archivists, programmers, writers and loudmouths dedicated to saving our digital heritage. Since 2009 this variant force of nature has caught wind of shutdowns, shutoffs, mergers, and plain old deletions - and done our best to save the history before it's lost forever. Along the way, we've gotten attention, resistance, [press and discussion](#), but most importantly, we've gotten the message out: **IT DOESN'T HAVE TO BE THIS WAY.**

This website is intended to be an offloading point and information depot for a number of archiving projects, all related to saving websites or data that is in danger of being lost. Besides serving as a hub for team-based pulling down and mirroring of data, this site will provide advice on managing your own data and rescuing it from the brink of destruction.

## Currently Active Projects (Get Involved Here!)

### Archive Team recruiting

- Want to code for Archive Team? Here's a starting point.

### Warrior based projects

- Google Baraza:** Read-only, getting deleted on April 30, 2015. [IRC Channel #bonanza](#).
- Last.fm:** Switching codebases in the first two weeks of April, some user-generated content might be lost. [IRC Channel #lastchance.fm](#).
- Trovebox:** Closing March 31, 2015. [IRC Channel #treasuretrove](#).
- Blogger:** Google was to restrict public access to adult blogs, but they backed down. We're backing up Blogger anyway. [IRC Channel #frogger](#).
- URLTeam:** URL shorteners were a fucking awful idea. [IRC Channel #urlteam](#).
- TwitPic:** allegedly acquired and possibly to be rearranged by [Twitter](#). We're saving it in its current state. [IRC Channel #quitpic](#).
- Halo:** Downloading all the read-only data from Halo. [IRC Channel #yolohalo](#).

Help us: [Download and run your warrior](#).

What's on: [online tracker](#).

Combined project activity graphs [here](#).

[http://archiveteam.org/index.php?title=Main\\_Page](http://archiveteam.org/index.php?title=Main_Page)



Valérie Schafer  
@valerie\_schafer

[Suivre](#)

La mémoire de Geocities compilée en un fichier  
[lemonde.fr/technologies/a...](http://lemonde.fr/technologies/a...)

10:32 - 23 Janv 2016

 Le Monde

A banner for "Jayne's Place" featuring a red wavy background. In the center is a portrait of a woman named Jayne. Below her photo is the text: "Hi, my name is Jayne and I hope you enjoy my home page." To the right of the photo is the text "COOL PLACES TO VISIT".

Jayne's Place

Hi, my name is Jayne and I hope you enjoy my home page.

COOL PLACES TO VISIT

La mémoire de Geocities compilée en un fichier

Face à la suppression du service de pages personnelles Geocities, site emblématique de l'Internet des années 1990, un groupe d'internautes a sauvé la quasi-totalité du site dans un seul fichier,...

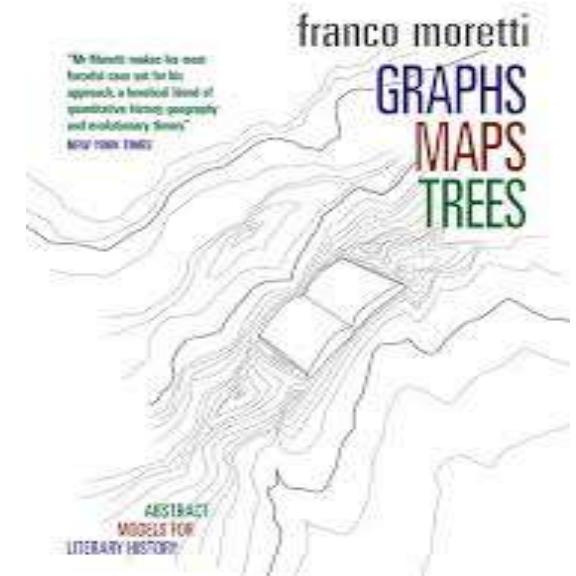
[Voir sur le web](#)



# Crawler, browser and lurker

« [C]lose reading won't help here, a novel a day every day of the year would take a century or so .... And it's not even a matter of time, but of method: a field this large cannot be understood by stitching together separate bits of knowledge about individual cases, because it isn't a sum of individual cases: it's a collective system, that should be grasped as such, as a whole ».

Franco Moretti, *Graphs, Maps, Trees: Abstract Models for Literary History*, Verso,  
2007.



export-2.csv

Rechercher dans la feuille

**Accueil Mise en page Tableaux Graphiques SmartArt Formules Données Révision**

**Edition Police Alignement Nombre Format Cells Thèmes**

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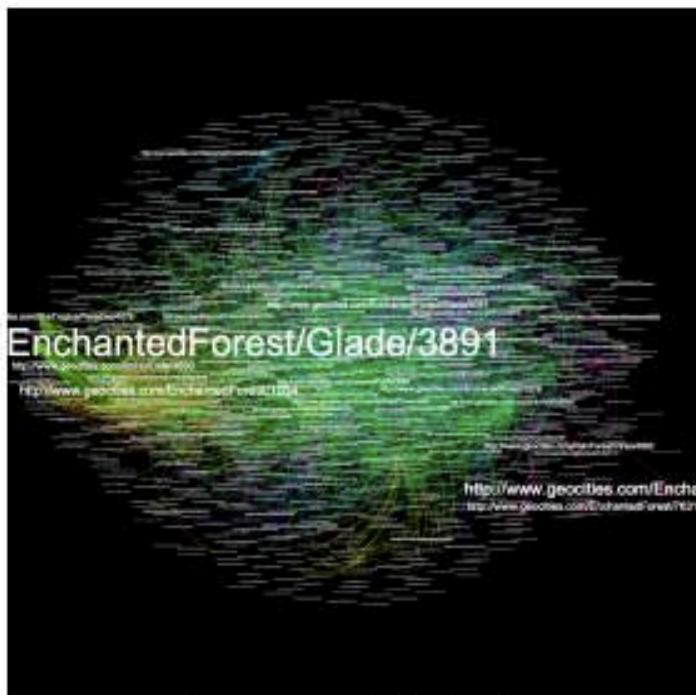
**A1 Results from the British Library's Shine interface, (webarchive.org.uk/shine), on 18/01/2016.**

| 1  | Results from the British Library's Shine interface, (webarchive.org.uk/shine), on 18/01/2016.   |
|----|---|
| 2  | Search Summary: Search Term(s): "Digital humanities", Crawl Years: (Include) "2005"   |
| 3  | Title, Host, Public Suffix, Crawl Year, Content Type, Content Language, Crawl Date, URL, Wayback Date, URL  |
| 4  | "trace Online Writing Centre", "trace.ntu.ac.uk", "ac.uk", "2005", "html", "en", "2005-01-01 09:17:49", "http://web.archive.org/web/20050101091749/http://trace.ntu.ac.uk:80/showcase/index.cfm?article=24"                           |
| 5  | Buy books : siemens online UK. Compare prices with Amazon this Christmas., "www.swopworld-shops.co.uk", "co.uk", "2005", "html", "en", "2005-01-03 07:04:38", "http://web.archive.org/web/20050103070438/http://www.swopworld-        |
| 6  | Online Archaeology - Using computers in Archaeology - HUMBUL - Humanities Computing, "www.online-archaeology.co.uk", "co.uk", "2005", "html", "en", "2005-01-04 01:39:42", "http://web.archive.org/web/20050104013942/http://wv       |
| 7  | ...and John Ray / books by Author - Psychohelp best price counselling books secrets., "www.psychohelp.co.uk", "co.uk", "2005", "html", "en", "2005-01-08 21:23:19", "http://web.archive.org/web/20050108212319/http://www.psychohel   |
| 8  | DRH2002 Abstracts, "www.drh2002.lib.ed.ac.uk", "ac.uk", "2005", "html", "en", "2005-01-09 04:33:51", "http://web.archive.org/web/20050109043351/http://www.drh2002.lib.ed.ac.uk:80/abstracts.html"                                    |
| 9  | trace Online Writing Centre - Review, "trace.ntu.ac.uk", "ac.uk", "2005", "html", "en", "2005-01-11 00:38:05", "http://web.archive.org/web/20050111003805/http://trace.ntu.ac.uk:80/review/index.cfm?article=24"                      |
| 10 | Amazon.co.uk: Books: A Companion to Digital Humanities (Blackwell Companions to Literature & Culture S.), "www.amazon.co.uk", "co.uk", "2005", "html", "en", "2005-01-15 09:02:40", "http://web.archive.org/web/20050115090240/htt    |
| 11 | ALLC Chair's Report 2000-2001, "www.kcl.ac.uk", "ac.uk", "2005", "html", "en", "2005-01-22 21:40:21", "http://web.archive.org/web/20050122214021/http://www.kcl.ac.uk:80/humanities/cch/allc/refdocs/chr03-04.htm"                    |
| 12 | Forumjam's University Page Of North America, "www.forumjam.co.uk", "co.uk", "2005", "html", "en", "2005-01-22 22:13:15", "http://web.archive.org/web/20050122221315/http://www.forumjam.co.uk:80/univ/namerica/california/ca-u        |
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Métadonnées via SHINE (British Library)

# EXPLORING THE GEOCITIES WEB ARCHIVE WITH WARCBASE & SPARK: LINKS (OR HOW WE CAN USE WARCBASE TO FIND AMAZING SITES TO ASK HISTORICAL QUESTIONS!)

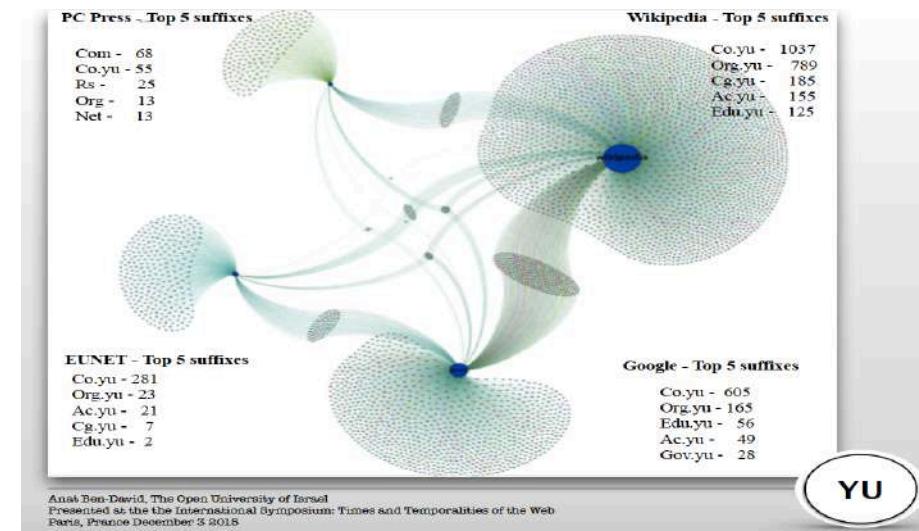
23 February 2016



*Not just spaghetti and meatballs, but the starting point  
for research.*

In my last post, we left off with scripts running to extract all URLs and a link diagram. They finished decently quickly – about three days on our `rho` server at York University, or about 30 minutes on our roaringly-fast cluster. Given that hopefully we will be running these only once or twice at first, even three days isn't too bad.

This is a relatively technology-heavy post, but I think even relative newcomers to digital history might find this interesting as an entree into several tools that we might use to extract meaningful historical information from big datasets.

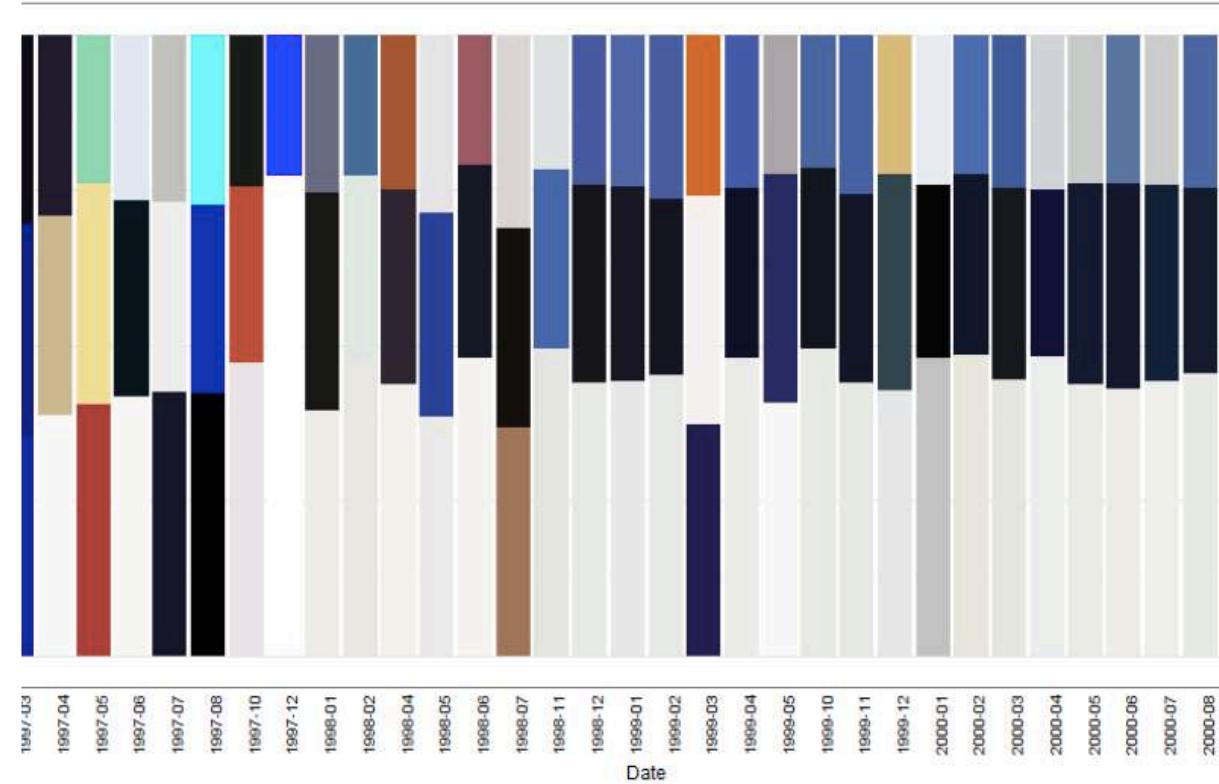


Ben-David, A. (2016a). [What does the Web Remember of its Deleted Past?](#)  
An Archival Reconstruction of the Former Yugoslav Top Level Domain.  
*New Media & Society*, 18(7), 1103–1119.

# The Colors of the National Web

Anat Ben-David, The Open University of Israel

Distributions of colors in the Yugoslav Web



Ben-David, A., Amram, A., & R. Bekkerman. (2016).

[The colors of the national Web: visual data analysis of the historical Yugoslav Web domain.](#)

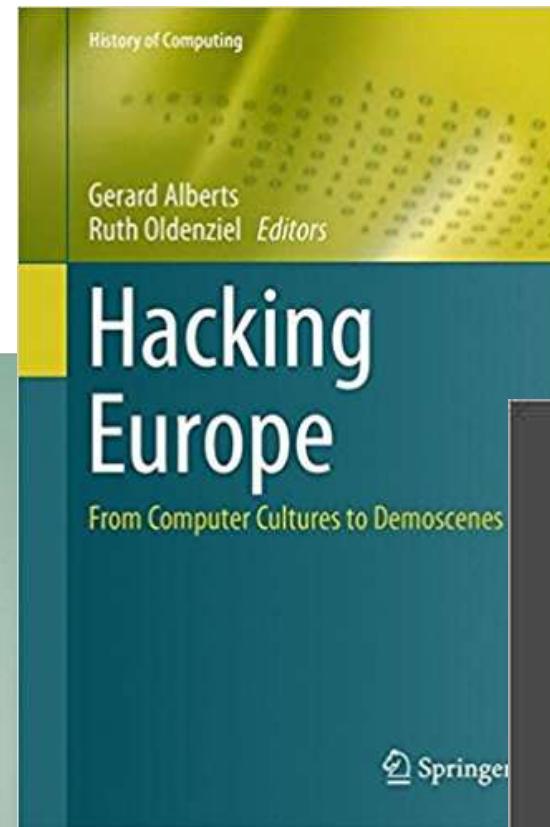
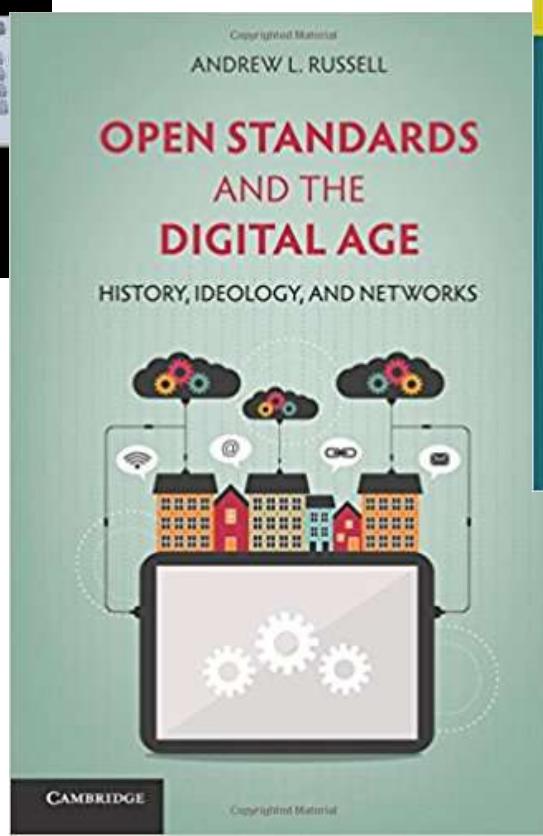
*International Journal on Digital Libraries*, DOI: 10.1007/s00799-016-0202-6.

“Although Moretti in the main uses the distant reading approach to the study of large amounts of digital data, I will argue that none of these two approaches are per se inscribed or inherent in the digital material. By this I mean that simply because collections of digital material are in many cases big data, which opens the possibility of asking and answering new types of research questions, this does not necessarily mean that they have to be approached as Big Data”. (p. 11)

“The question is not *if* scholarly studies within the Humanities want to “go digital”, but rather *how*”. (p. 9)

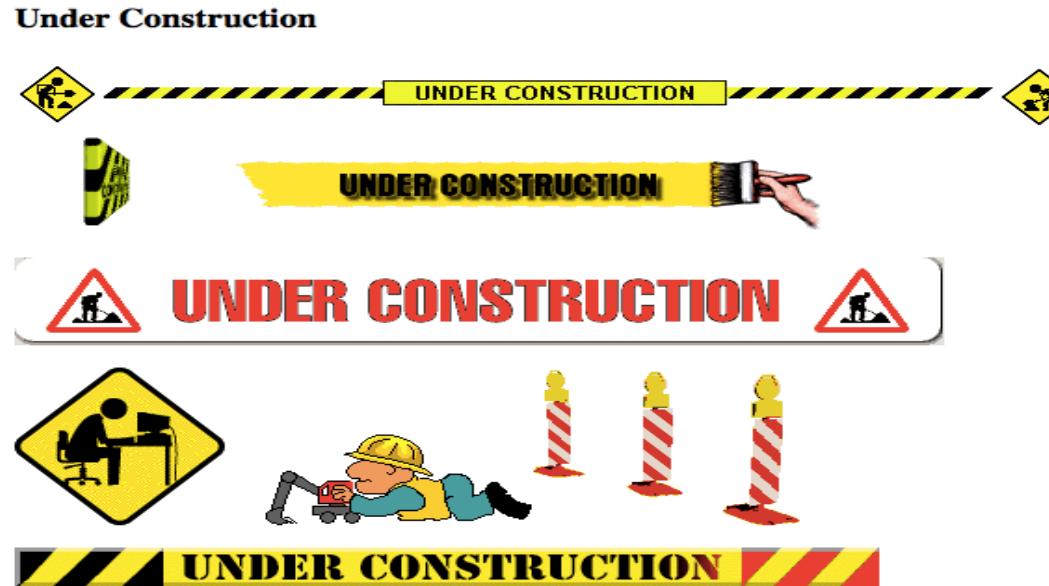
Brügger N., Humanities, *Digital Humanities, Media Studies, Internet Studies: An inaugural Lecture*, Aarhus, CFI, 2015.

## 2- Des regards décalés: missing narratives, longue durée, etc.



Olia Lialina :

To me, what defines the history of web is not just the launch dates of new browsers or services, not just the dot-com bubbles appearing or bursting, but also the appearance of a blinking yellow button that said 'New!' or the sudden mass extinction of starry wallpaper<sup>540</sup>.



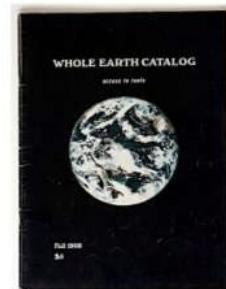
The "Under Construction Sign" is a very strong symbol of the early web. It reminds us of the great times shortly after the scientists and engineers finished their work on the Information Highway. Ordinary people came with their tools and used the chance to build their own roads and junctions. Work was everywhere and everywhere there was something that wasn't ready, links were leading to nowhere or to pages that didn't quite exist and there were signs on the pages that warned of broken connections and the lack of navigation.

Step by step people were developing pages into a functioning web and it became less necessary to warn us, especially using road signs, about missing information. But they didn't disappear. Instead, "Under Construction" images changed their meaning from a warning to a promise that this page will grow. The symbol became a hybrid of excuse and invitation. It could appear on an empty or properly functional site as a sign that the project was growing and being updated. Often you could see the newer sign, "Always Under Construction."

# Des innovateurs ... aux passeurs

Ce livre réussit un véritable tour de force. De la biographie d'un individu singulier, Stewart Brand, Fred Turner dresse le portrait d'un personnage collectif : internet. Ce geste métonymique a valeur d'exemple pour l'histoire des sciences et des techniques. Car Fred Turner ne fait pas de son héros un créateur génial, omniscient et visionnaire. Stewart Brand n'a rien inventé. Il n'est pas le personnage le plus connu de la glorieuse constellation des figures de la Silicon Valley. Il n'est à l'origine d'aucune innovation technologique. Il n'a pas écrit de sa main de texte fondateur. En déplaçant l'attention des inventeurs vers les passeurs, Fred Turner offre une leçon de sociologie des sciences et des techniques inspirée tout à la fois des approches de Bruno Latour et d'Howard Becker. Son héros, Stewart Brand, incarne à merveille ces figures secondaires souvent négligées par l'histoire des techniques qui s'affairent en arrière-plan des innovateurs glorieux pour articuler les enjeux technologiques aux traits politiques et culturels d'une époque. Presque à chaque intersection des multiples univers qui ont fabriqué internet, Stewart Brand était présent.

Introduction de Dominique Cardon



... aux mainteneurs



## Hail the maintainers

Capitalism excels at innovation but is failing at maintenance, and for most lives it is maintenance that matters more

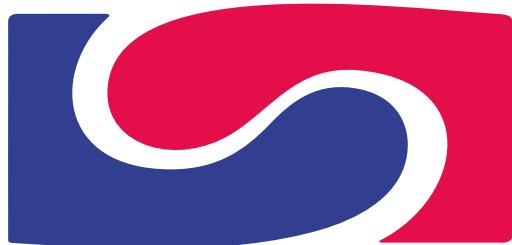
Workers at the Blue Plains Waste Water Treatment Plant, Washington DC. Robert Madden/National Geographic Creative

Andrew Russell is Dean and Professor in the College of Arts & Sciences at SUNY Polytechnic Institute in Utica, New York. He is the author of *Open Standards and the Digital Age* (2014) and co-editor of *Ada's Legacy* (2015).

Lee Vinsel is an assistant professor of science and technology studies at the Stevens Institute of Technology in Hoboken, New Jersey. He is working on the book *Taming the American Idol: Cars*.

Innovation is a dominant ideology of our era, embraced in America by Silicon Valley, Wall Street, and the Washington DC political elite. As the pursuit of innovation has inspired technologists and capitalists, it has also provoked critics who suspect that the peddlers of innovation radically overvalue innovation. What happens *after* innovation, they argue, is more important. Maintenance and repair, the building of infrastructures, the mundane labour that goes into sustaining functioning and efficient infrastructures, simply has more impact on people's daily lives than the vast majority of technological

<https://aeon.co/essays/innovation-is-overvalued-maintenance-often-matters-more>



CORÉE 한국  
프랑스 FRANCE  
2015 2016

# Une histoire comparée et croisée de l'Internet en France et en Corée

## Valérie Schafer et Dongwon Jo

Manifestation organisée dans le cadre de l'Année France-Corée 2015-2016 :  
[www.anneefrancecoree.com](http://www.anneefrancecoree.com)



Ministry of Foreign Affairs  
Republic of Korea

MINISTÈRE  
DES AFFAIRES ÉTRANGÈRES  
ET DU DÉVELOPPEMENT  
INTERNATIONAL  
MINISTÈRE  
DE LA CULTURE  
ET DE LA COMMUNICATION



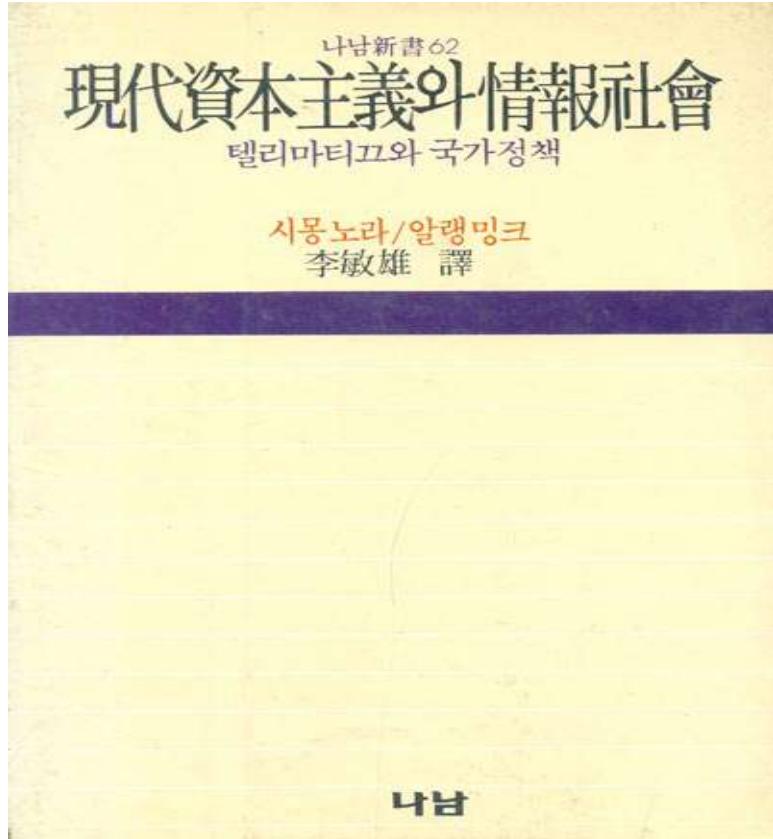
Korean Culture and Information Service  
Ministry of Culture, Sports and Tourism



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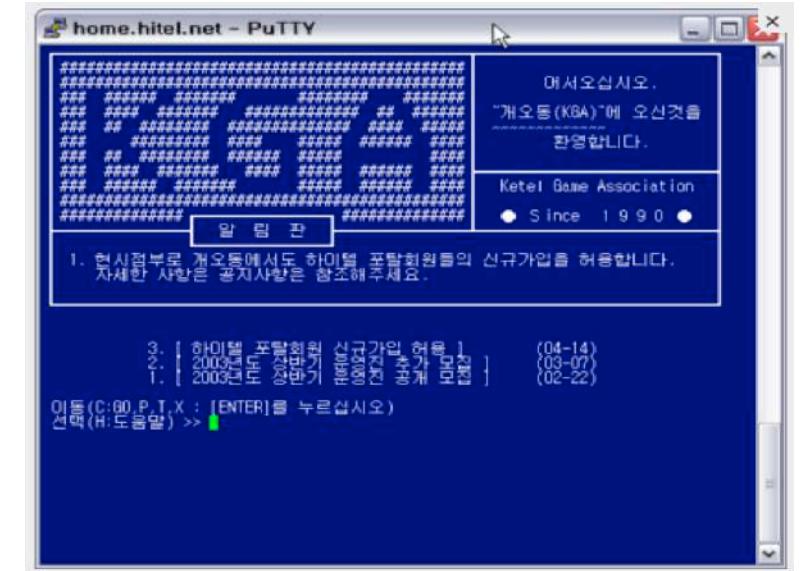


## HiTEL (1991)

videotex modelled after Minitel, by Korea Telecom

## HiTEL (1992 ~)

as a major PC communication service



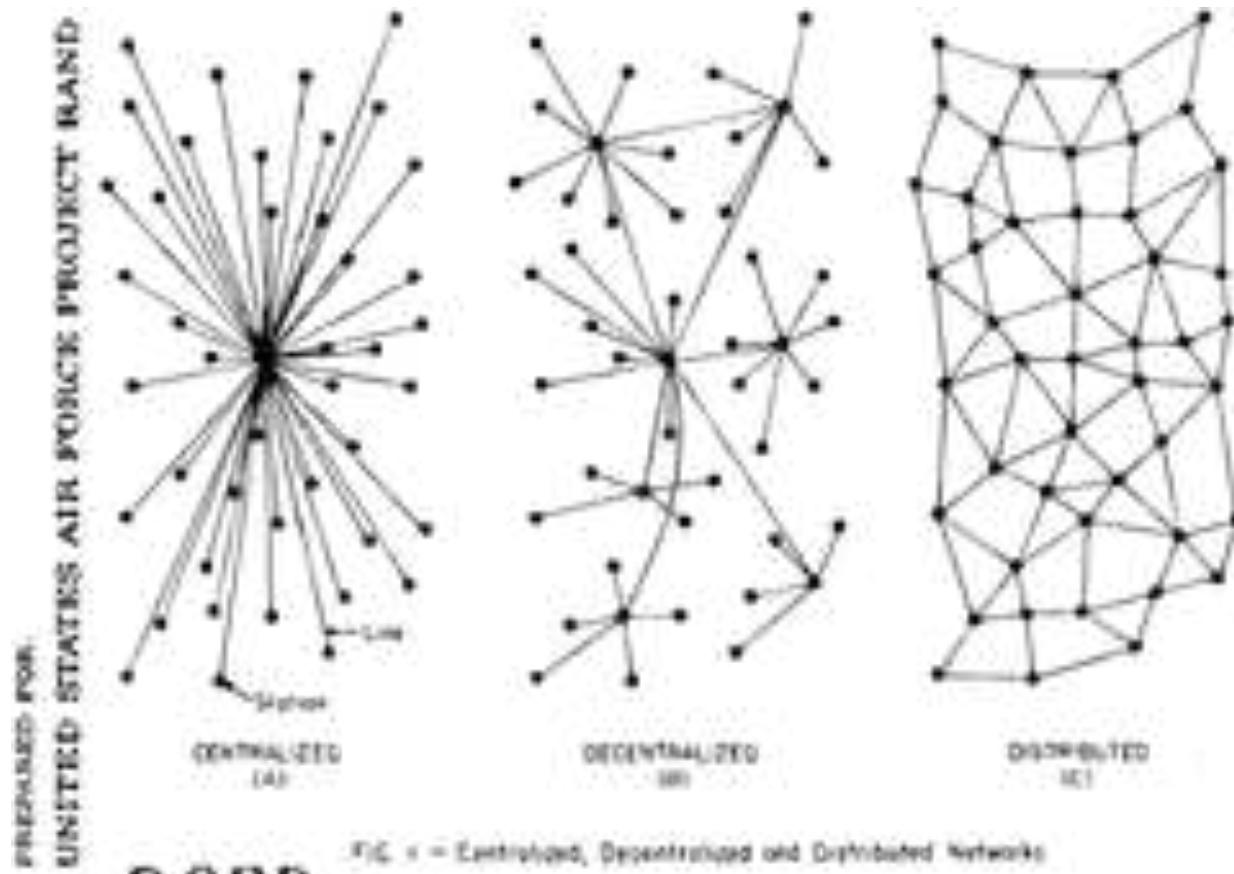


FIG. 4 - Centralized, Decentralized and Distributed Networks



« Leaving people out isn't ethical either.

I feel similarly uncomfortable with leaving the voices of everyday people completely outside the historical record when there is ample opportunity to include them. Moving to a full opt-in process would likely lead to the historical record being dominated by corporations, celebrities and other powerful people, tech males, and those wanted their public face and history to be seen a particular way ».

<https://ianmilligan.ca/2018/03/27/ethics-and-the-archived-web-presentation-the-ethics-of-studying-geocities/>