

Origines d'internet : <u>L' IPTO</u> (Information <u>Processing</u> Techniques Office)

- Petit service de la recherche informatique au sein de l'ARPA, créé en 1962
- Des dirigeants visionnaires (<u>Licklider</u>), jeunes et brillants (Sutherland, Taylor, Roberts)
- Des moyens financiers importants
- ▶ Une équipe très réduite (3-4 personnes)
- Un fonctionnement souple, informel
- Une vision de l'informatique interactive et communicationnelle
- > Un réseau de chercheurs
- De nombreux projets de recherche avancée



(1973. There was a major computer communications network conference in Brighton, at the University of Sussex. It was a great conference, in fact that's the conference where Bob Kahn and Vint Cef first started talking about this thing called TCP. I had to leave a day early, I came home. I'm unpacking, and I realise that I let my electric razor in Brighton. Now at that meeting, we had taken a high-speed line from London, which was an ARPANEI node, down to University, of Sussex (...). It was a crazy hour in the morning like four in the morning in Brighton, So. I said: "What crazy person will be on the network at four in the morning the four in the morning Evecutive". You could type in the name of anybody and say, "Where Roberts" (...). Finally, five minutes later, it came back and said, "Roberts logged on teletype 13". We had the ability to communicate. Here was no formal chat ession, it was an ada hoc kind of chat session. People were able to communicate by typing things out on the other person's ferminal. I could type on his and he could type on mine. It was a kind of rudimentary chat session.) The next day, Danny Cohen came back with my razor, and so in fact, I admit that was the first illegal use of the Internet, because it was a personal use and not devoted to science and technology as it was supposed to be [Laughs] ».

Morten Bay (2018) Conversation with a pioneer:Leonard Kleinrock, Internet Histories 2:1-2, 140-152

De nouvelles tendances historiographiques

Histories of Networking vs. the History of the Internet Andrew L. Russell College of Arts & Letters, Stevens Institute of Technology

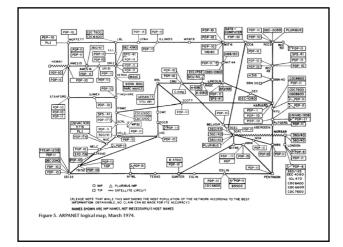
ted at the 2012 SIGCIS Workshop, October 7, 201

In this paper I describe the difference between "the history of the Internet" and hat starts with Soutnik (1957) and then moves to the creation of the Amonet (1969). Cerf and Kahn's Transmission Control Program (1974), the commercialization of the Interne nity now for historians to talk more about the latter category, "historia

ons, and wireless transmission that took place in other c re not necessarily part of the established linear history of the Internet but are

vertheless important to describe and to understand. The goal for this paper, therefor ss-from Arpanet to Internet to global information society-that is so pro

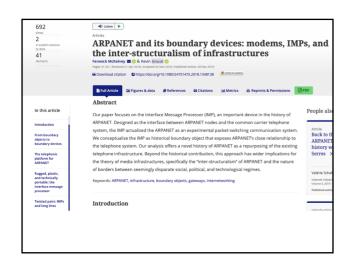
The Production and Interpretation of ARPANET Maps Bradley Fidler and Morgan Currie University of California, Los Angeles (ous) - 57m7 THE ARPA NETWORK THE ARPA NETWORK SEPT 1969 DEC 1969

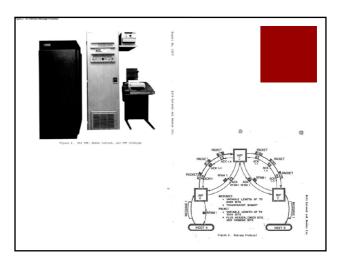


A Specific Parameterization

A Specific Parameterization
The maps' focus on the subnet stayed in place
while the ARPANET grew in complexity with
the introduction of new applications such as
email and FTP, as it began connecting to both
external and local networks, and as it reconfigured its institutional governance and
access control policies (to name just a few
developments). BBN had no reason to alter
its intermetive strategies as staff (ovul access). developments). BBN had no reason to alter tis interpretive strategies a staff could access more encompassing data that reflected these changes. Rather, BBN parameterized its maps by selecting from a larger set of static data it maintained on the configuration of the network, such as IMPs and their interconnections (the highest) that the properties of IMPs compared to the compared ections (the subnet), the type of IMP connection to its hosts, the name of each host, as well as line and modem numbers.

Finally, the links on the map represent leased lines from telephone carriers, the connections between the subnet. The geographic maps appear to privilege geography graphic maps appear to privilege geography to show these connections, although geography is pushed aside in the case of nodes in Hawaii or London, which simply show up as "outside the continental United States"; concentrations of nodes, power centers of the US network, are magnified to fit the nodes on the printed map. On later geographic maps, satellite connections were represented as preven links (and experimental satellities connections). satellite connections were represented as uneven links (and experimental satellite connections were not shown at all. ³³ In the case of both maps, all links between IMPs, even on geographic maps, are displayed logically, only revealing their origins and destinations: the actual geographic route of the ARPA-NET's leased lines, and the connections and transfers across the line's routes, were unknown to BBN. Indeed, even though the





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Financial and Administrative Infrastructure for the Early Internet: Network Maintenance at the Defense Information Systems Agency.

Fiddre B. Russell AL.

Abstract

Popular and scholarly histories of computer networking often focus on technical innovation and the social impact of those innovations. These histories are marked by a contradiction, namely, failing to explain the existence of the infrastructure that they must ultimately use as evidence for the success of innovation, and the conduit of its social impact. The story of the U.S. Defense Advanced Research Agency's (DARPA's) Ayramet, and the role of both in the invention of the modern Internet, is a central archetype of this genre. Taking our lead from recent work in Infrastructure and infrastructure that is assumed but not explained in innovation-centric accounts. We do so by focusing on the U.S. Defense Advanced Research Agency's (DARPA's) Ayramet, and the role of both in the invention of the modern Internet, is a central archetype of this genre. Taking our lead from even which the second of the propose and the propose and the propose and the second internet historiography-centreing our explanation around the infrastructure not explained in innovation-centric accounts. We do so by focusing on the U.S. Defense Advanced Research Agency, which is traditionally cast, corita DARPA, as a conservative enemy of innovation. We explore its maintenance of the financial and administrative infrastructure excessary for the Arpanet to function as a contribution to broader histories of network infrastructure.

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Les maintenance et infrastructure studies pour une nouvelle approache de l'histoire d'ARPANET

De quoi la naissance d'ARPANET est-elle la fête? • UCLA computer science professor Leonard Kleinrock establishes the first local connection between two computers in his lab. Matthew Moore of the Lelegraph colled this "the most appropriate" of all the anniversaries. Discovery magazine and National Geographic both identify this as the true date of birth." Gustini R. (2011). "Happy Birthday Internet? Today is one of the many dates people cite as the Internet's birthday". The Atlantic, 7 April. • "Happy birthday, Internet! You may be turning 45 today, but we swear you don't look a day over 30. [...] How do we define the invention of the internet? It's a question that scholars and armchair historians have debated for decades. Did if start with the birth of the web? Did it start with the adoption of the internet? OCTOPHP? You could make a case for either. But one servinal amment in the credition of the internet Country of the National Country of the Nati

French memories about the ARPANET: a conversation with Michel Élie and Gérard Le Lann



The idea of making profit from the network was completely absent. It was an idyllic world where people just shared, and the NWG was the main apostle of this. For instance, Lawrence Roberts, the project manager, immediately accepted that the specifications would be open. The NWG was strongly opposed to computer manufacturers and their influence on the shape of networks.

(...) The ARPANET anniversary should emphasize the non-profit, social and societal sides of network developments and uses. It should be an opportunity to stress that the urgency seems not to be in technology but in re-humanizing the Internet and its uses in order to serve social needs all over the earth: let the Internet be human again!



"A guy named Gérard Lelann (sic) was at IRIA working with Pouzin and came to my lab at Stanford for a year and had a lot to do with the early discussions of what the ICP would look like. So did 8b0 MeCfolfe, it furns out. Metcalle was at Aerox at the time and in June of 1973 we began working together, Lelann, Metcalle, and I, on the design of the host-to-host protocol for INTERNET. Eventually Metcalfe got impatient with the rate at which things were going. I was trying to get a large number of people to agree on a set of protocols, and every time you brought in a new player we had to go through the argument again. Meanwhile Metcalfe had five or six guys over at Xerox trying to get the local area nets running. Finally they said they didn't want to wait until this process of agreement and consensus finally concluded, so they went off on a slightly different tack and invented XNS that took some different choices than the TCP did. And they got if up and running before ours, in fact. Of course in the long run we've... They kept it secret, and that was a mistake, I guess, now looking back. If they hadn't kept it secret, and that was unistake, I guess, now looking back. If they hadn't kept it secret, we might all be using XNS instead of TCP. But as it stood, TCP turned out to be the open protocol that everybody had a finger in at one time or another. That is just how it all worked out."

Cerf. Vinton G. (1990). Oral history interview with Vinton G. Cerf.

Cerf, Vinton G. (1990). Oral history interview with Vinton G, Cerf. Charles Babbage Institute. https://conservancy.umn.edu/handle/11299/107214

