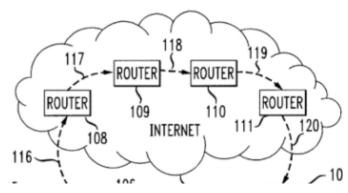
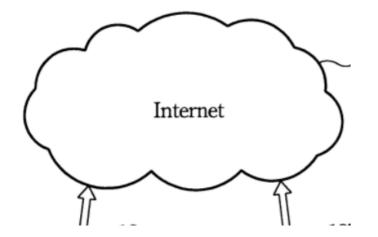
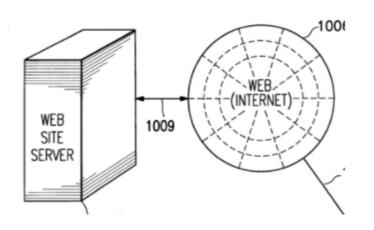
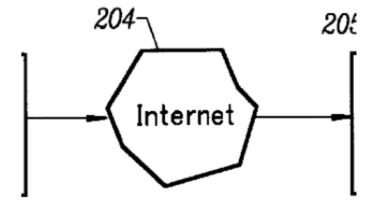


FIG. 1

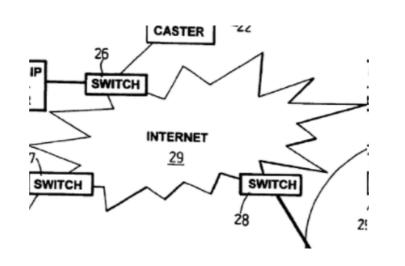


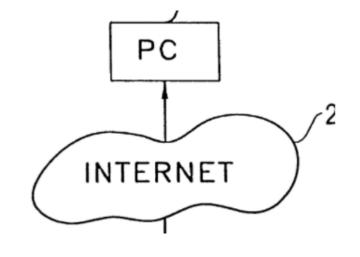












January 18, 2019

A History of the Internet

Laurel Schwulst Art369b: Interactive Design and the Internet



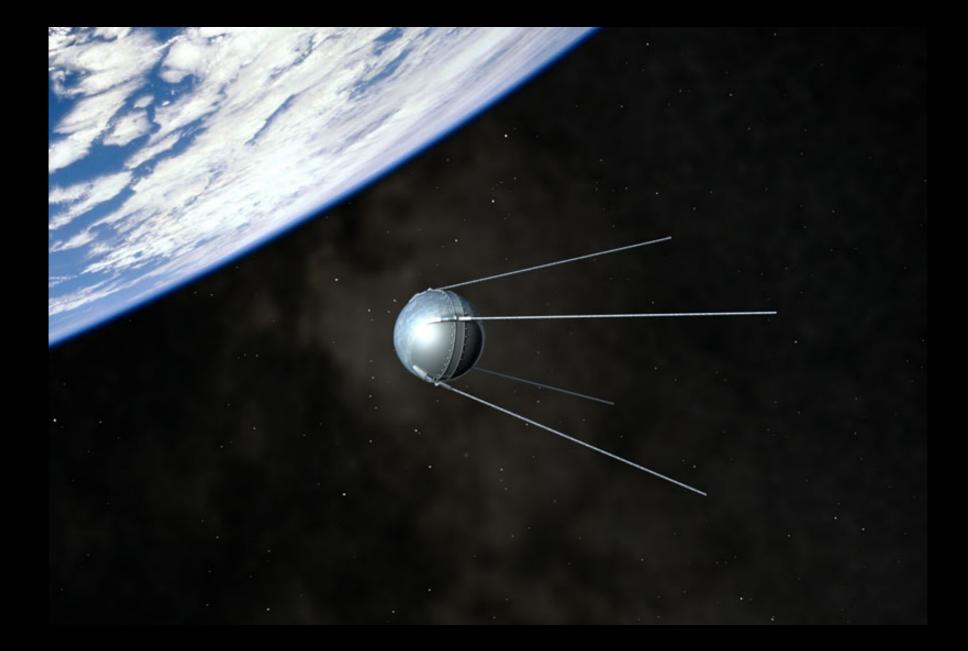
1830s-50s

A NEW MAP of the SUBMARINE CABLES connecting the World, according to the best Authorities with all the latest Discoveries to the PRESENT PERIOD, 2015.



First submarine cables for the telegraph





Sputnik



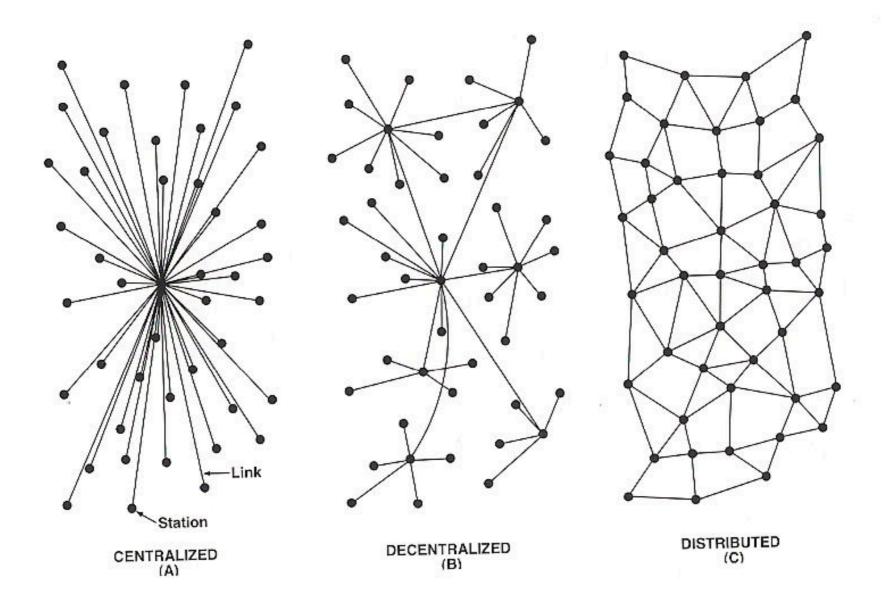
1957

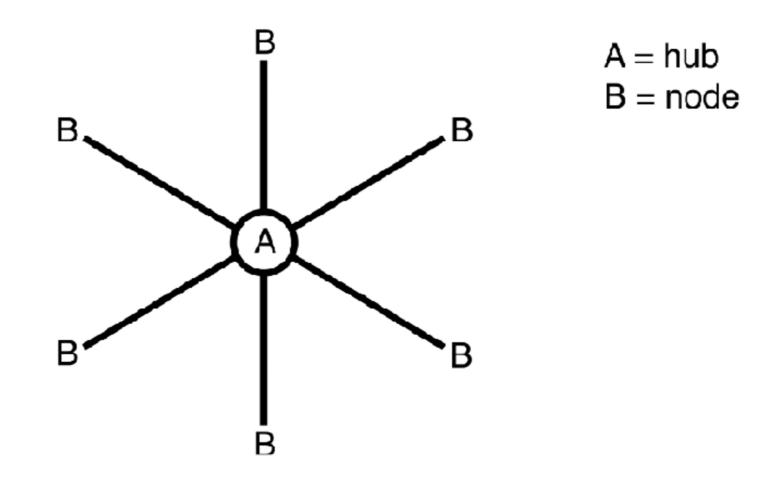
Sputnik



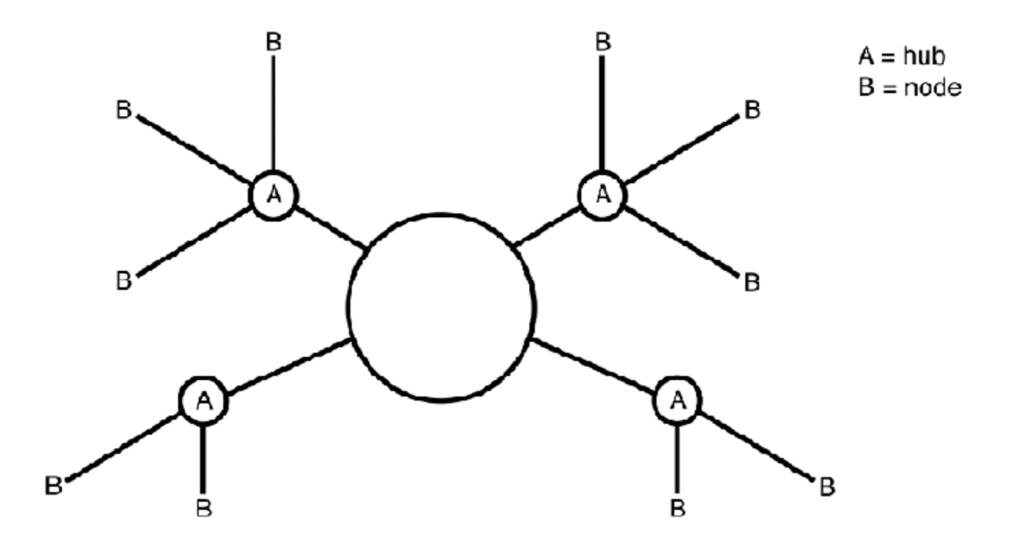
DARPA https://www.darpa.mil



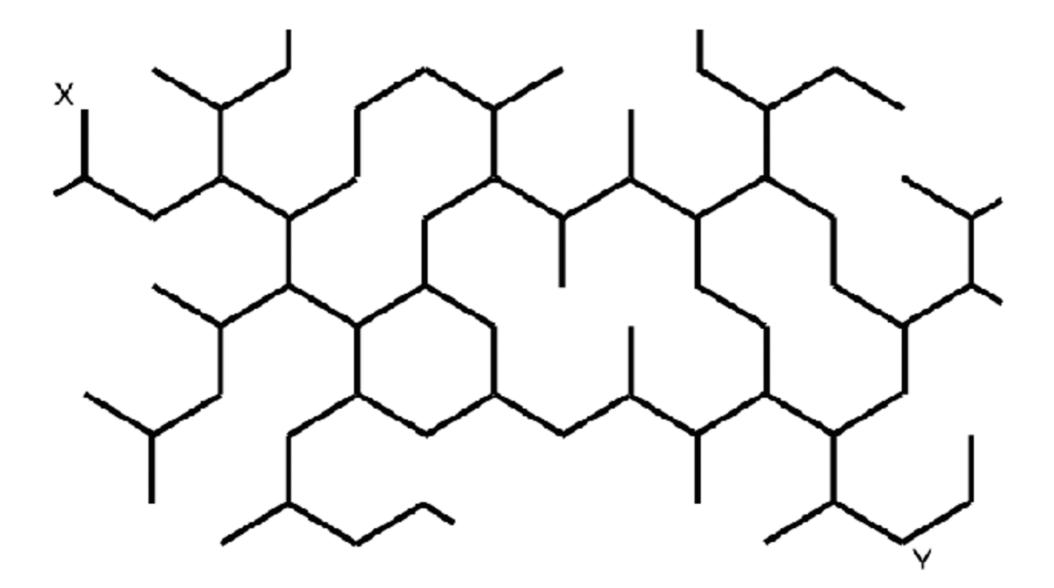


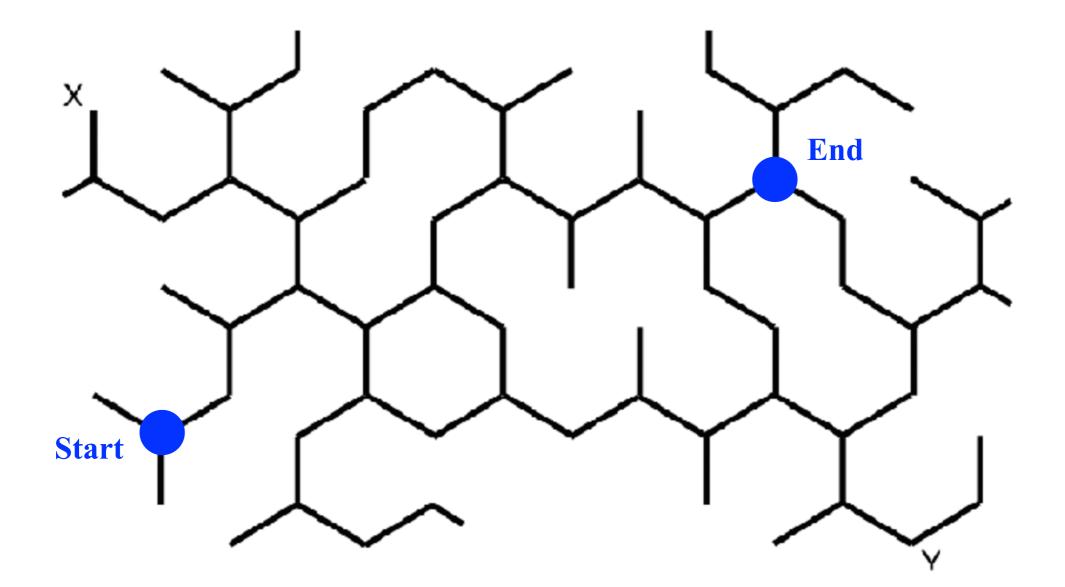


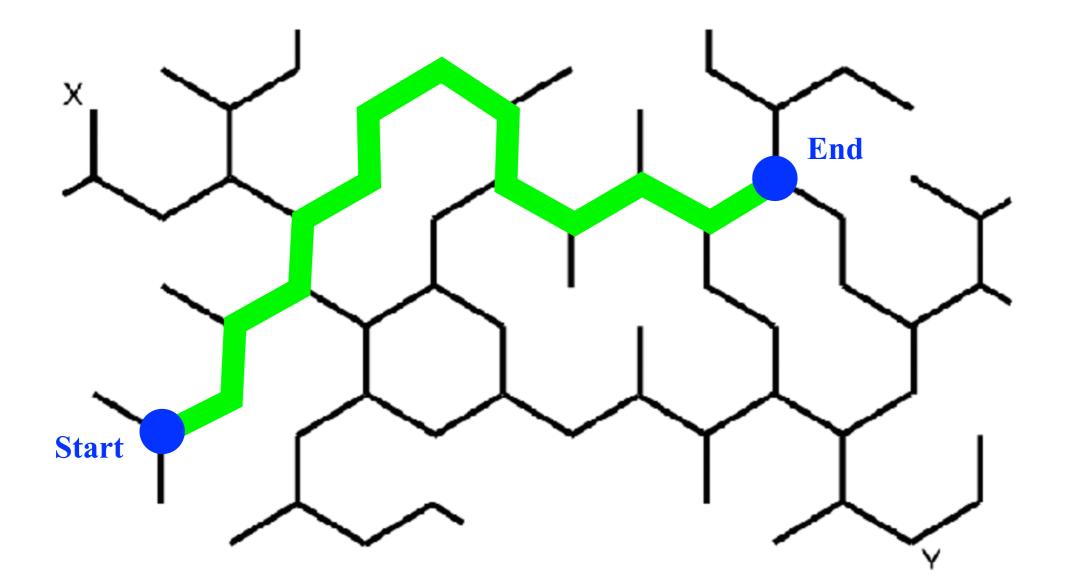
Centralized network diagram

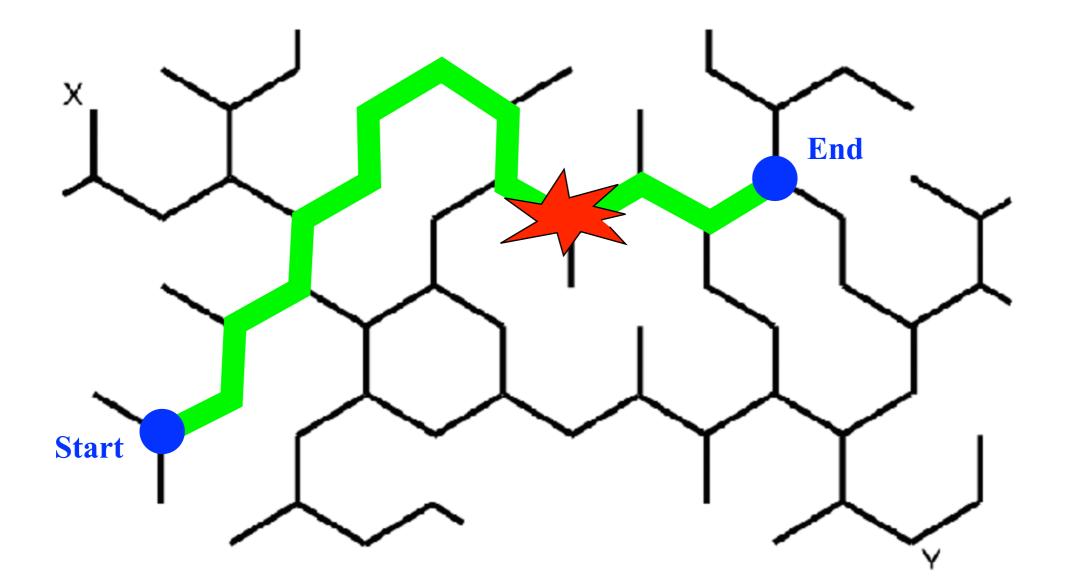


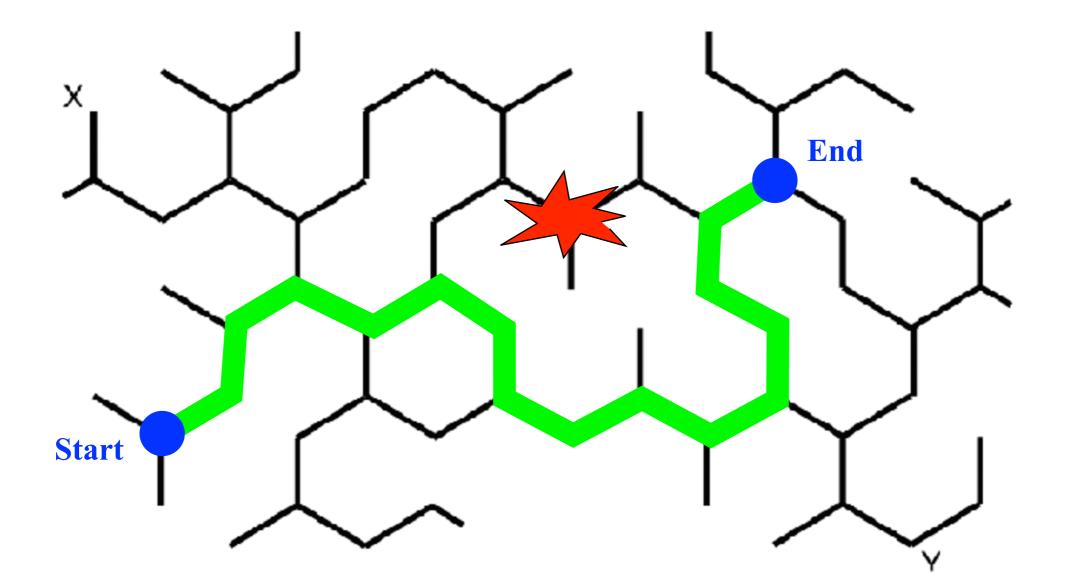
Decentralized network diagram



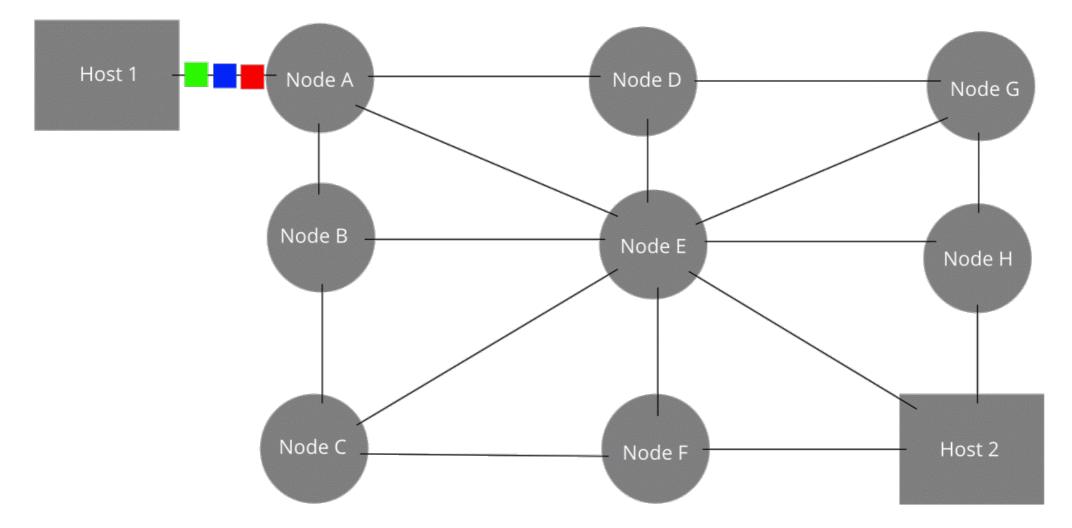








The original message is Green, Blue, Red.



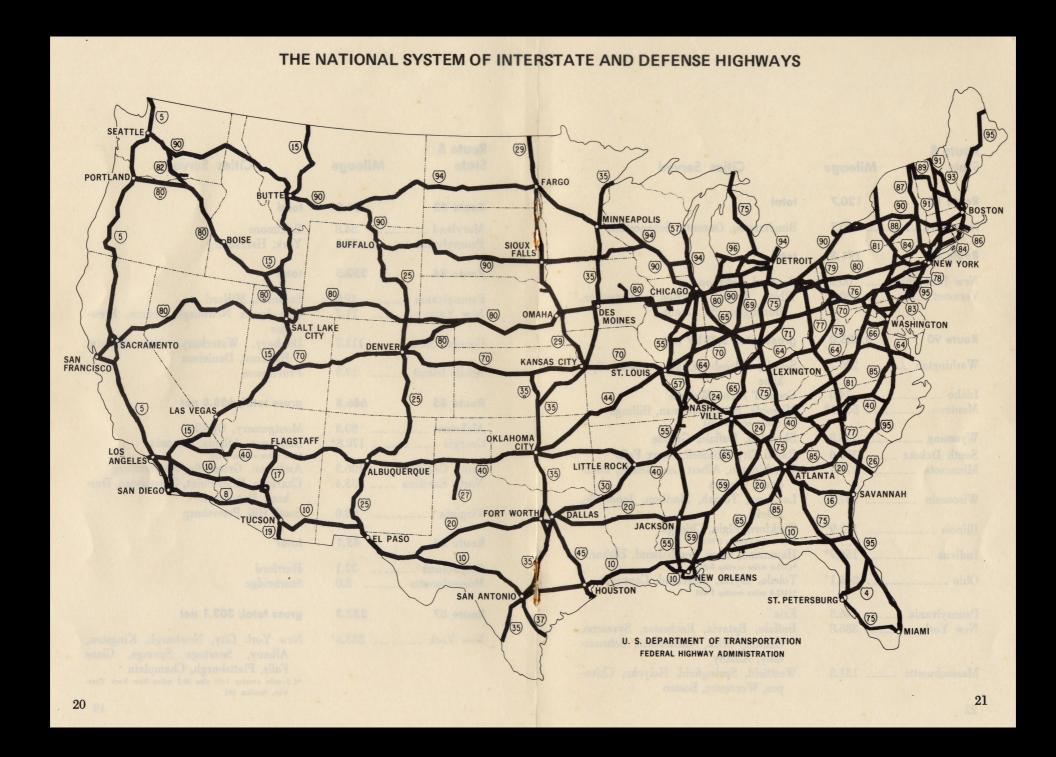
Packet switching



Panopticon

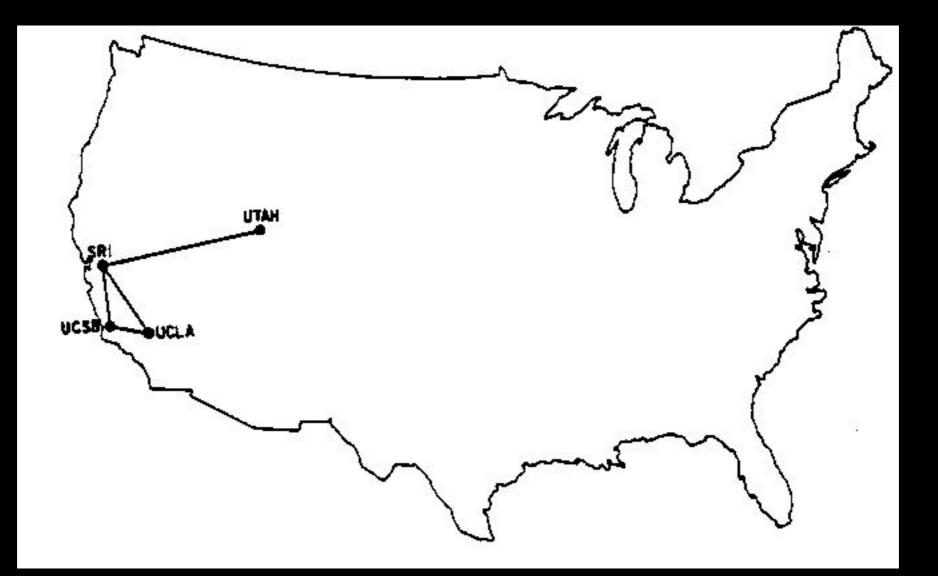


Air Travel Routes



Highway System



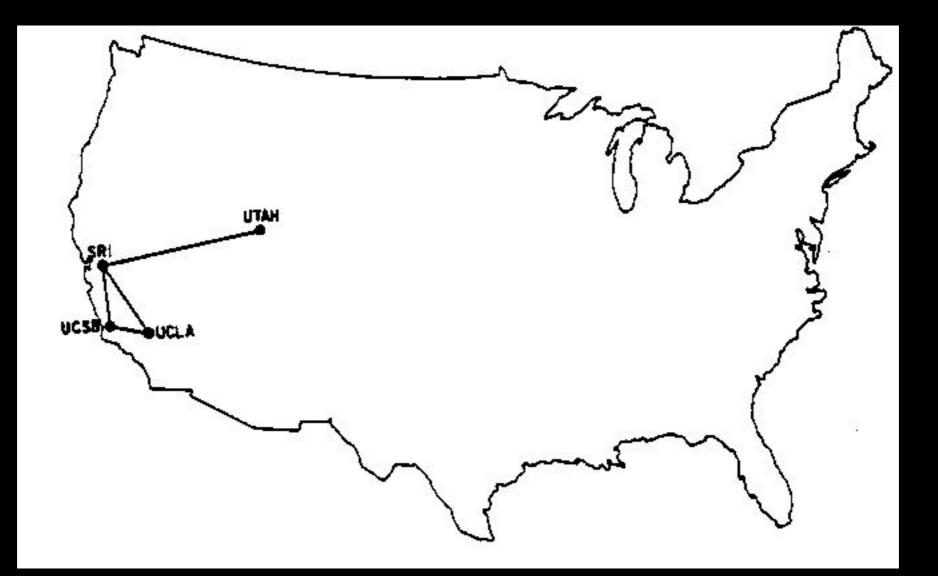


ARPANET

First host-to-host message from UCLA to the Stanford Research Institute

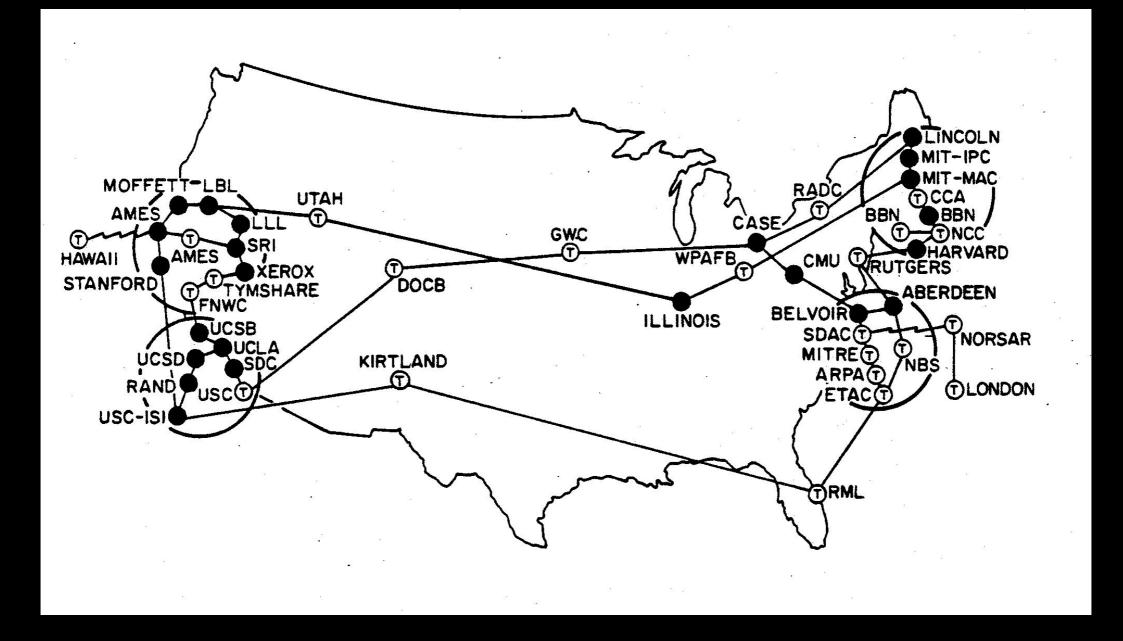
1969





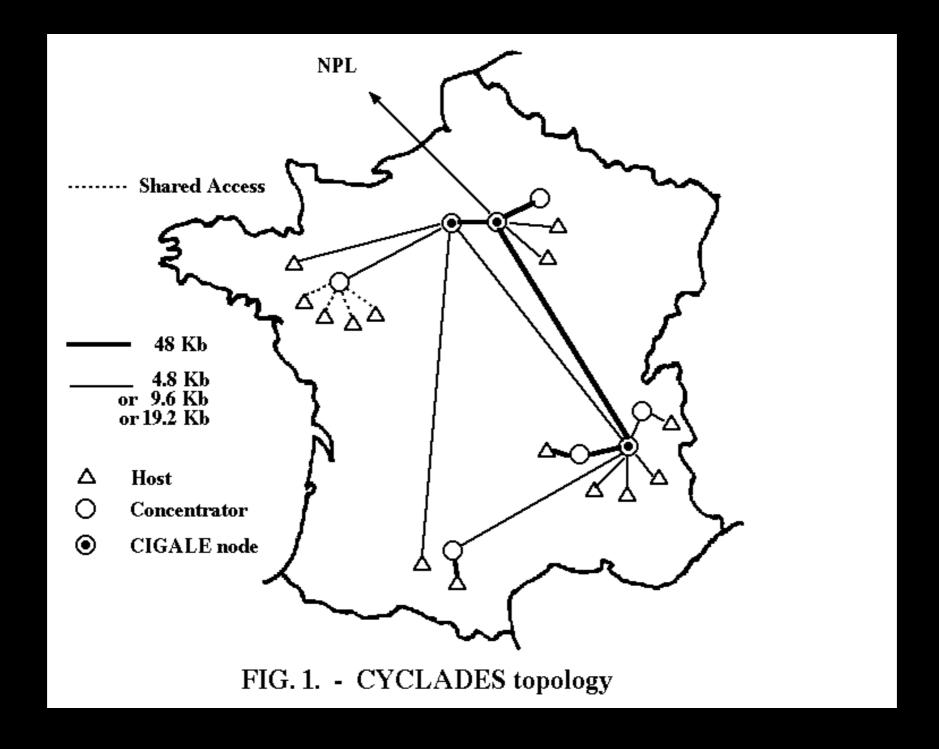
ARPANET





ARPANET

1970s



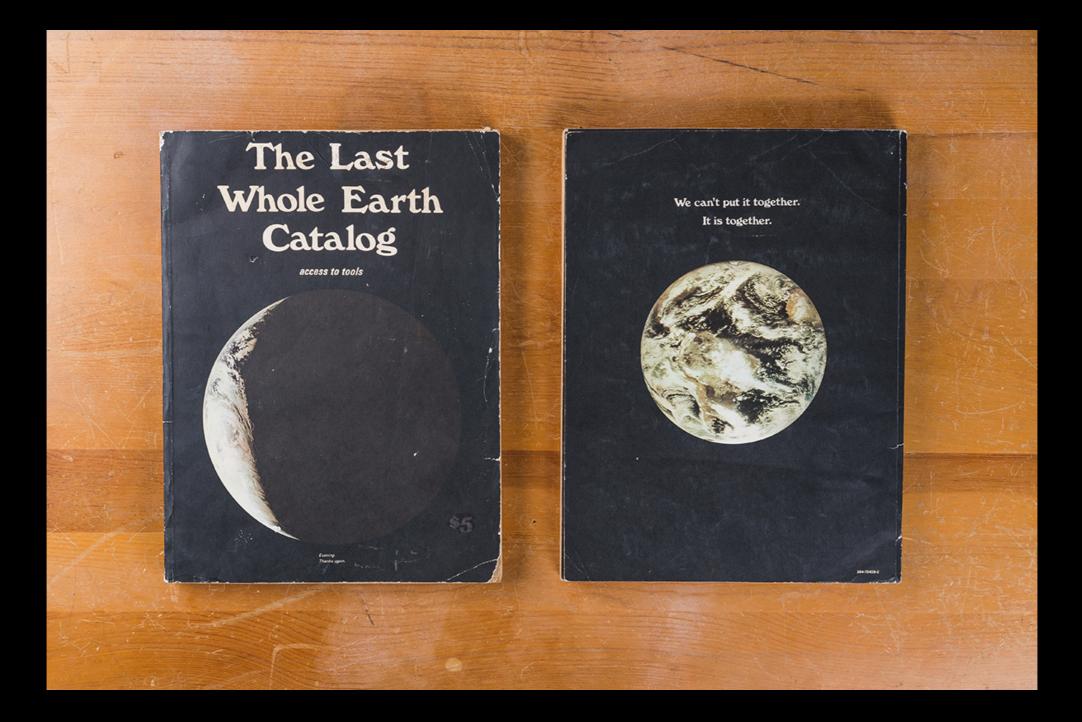
CYCLADES & Louis Pouzin



1968

Earthrise





Stewart Brand's Whole Earth Catalog

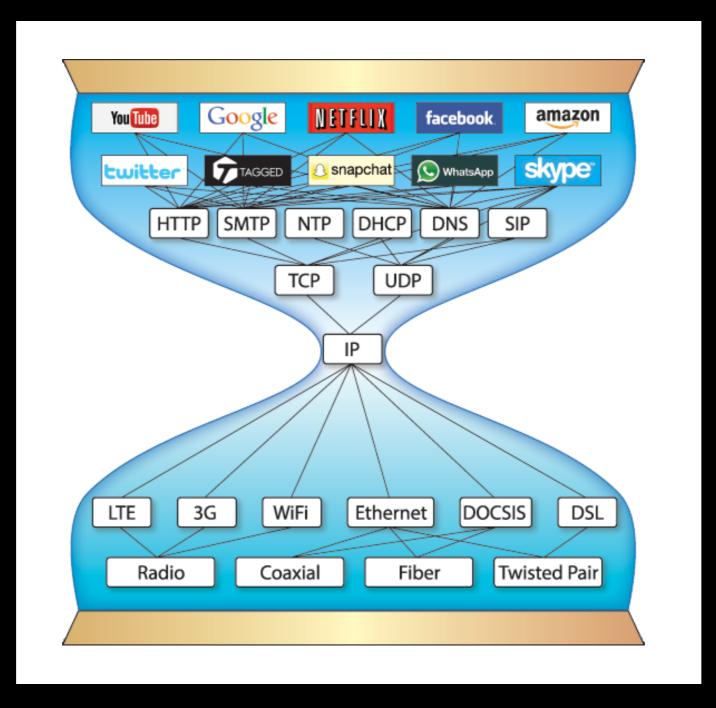


Email & Ray Tomlinson



Internet Protocol

1980



Internet architecture (hourglass model)





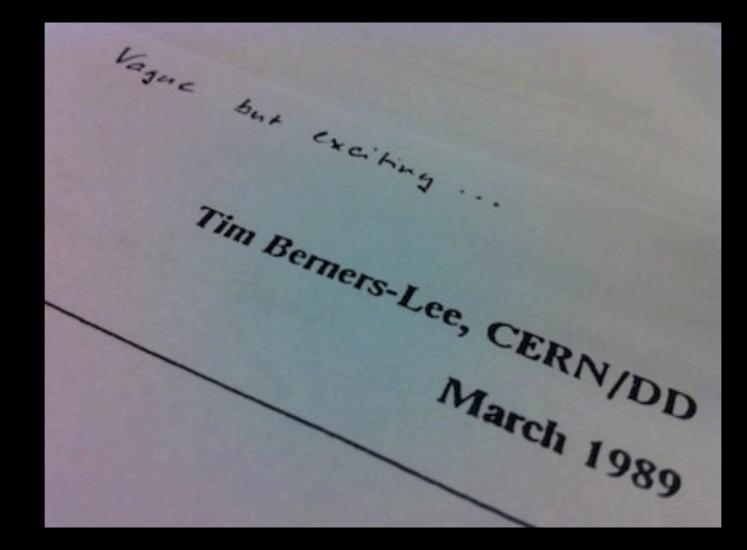
Transmission Control Protocol





Hypertext Transfer Protocol



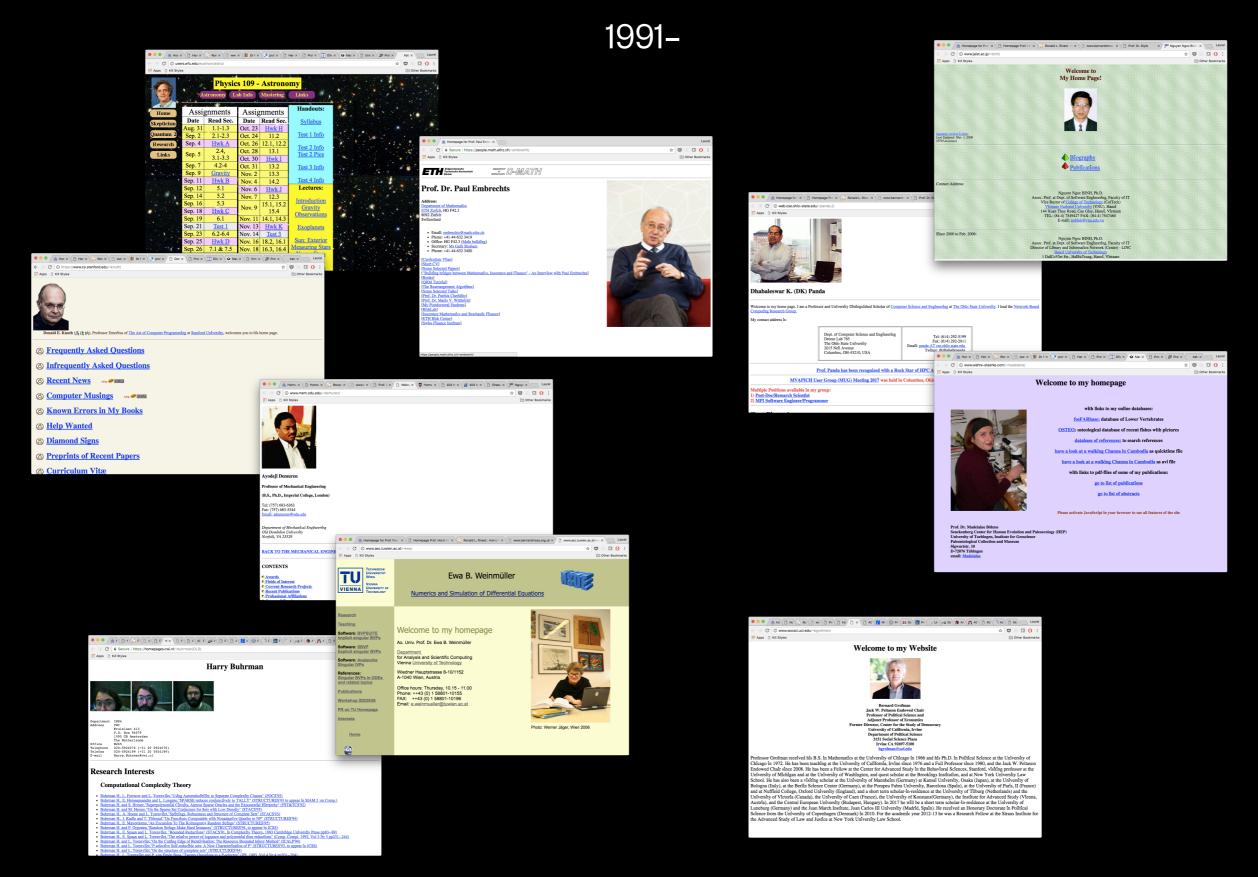


World Wide Web & Tim Berners Lee



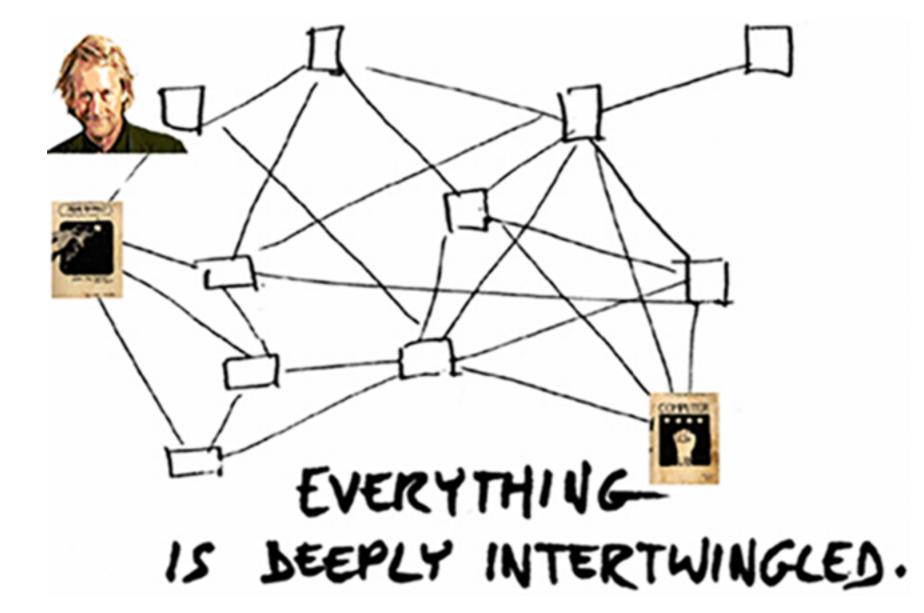
World Wide Web & Tim Berners Lee

1991



Websites of professors "Prof. Dr. Style" by Olia Lialina <u>http://contemporary-home-computing.org/prof-dr-style/</u> 1960

Ted Nelson's Project Xanadu



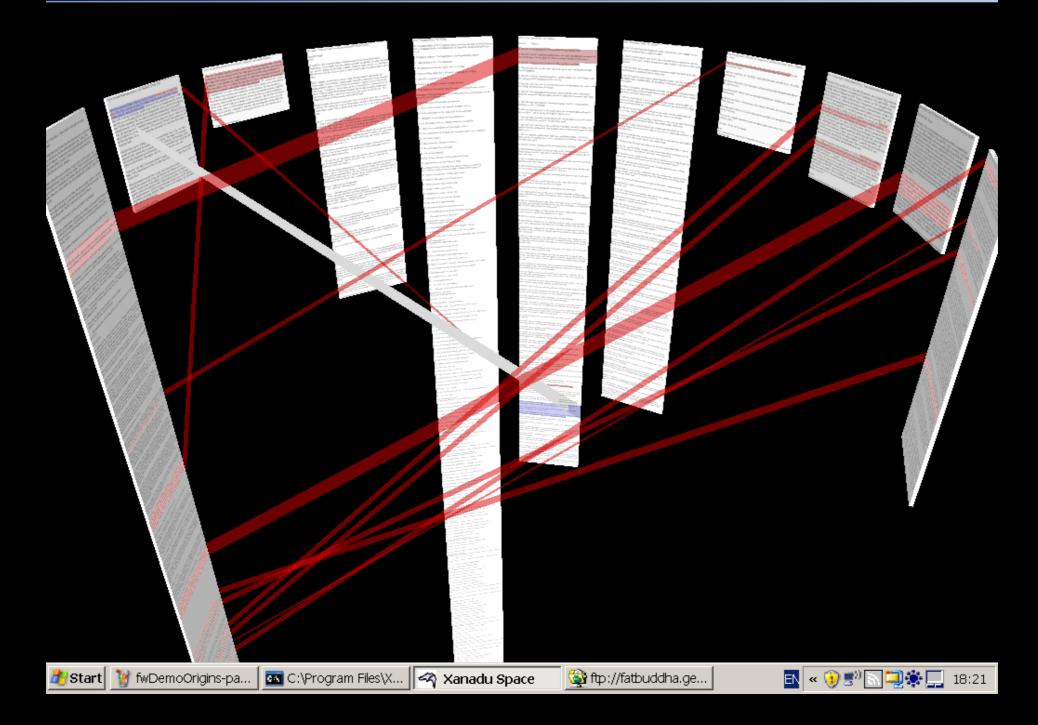
Computer Lib / Dream Machines

1974



🐴 Xanadu Space





XanaduSpace

1997

L		pyxi v2.16		1
1.1	1.0.1.0.3 Document Edit Link back fwd reload	compare	1.1.0.1.0.3.1 Document Edit Link back fwd reload	1
	A <mark>Declaration of the</mark> Representatives of the <mark>United States of</mark> America, in General Congress assembled		The Unanimous Declaration of the Thirteen United States of America	
-	When in the course of human events, it becomes necessary for a people to advance from that subordination in which they have hitherto remained, and to assume among the powers of the Earth, the equal and independent station to which the laws of nature and of nature's God entitle them, a decent respect to the opinions of mankind requires that they should declare the causes which impel them to the change.		When in the course of human events, it becomes necessary for one people to dissolve the political bands which have connected them with another, and to assume among the powers of the Earth, the separate and equal station to which the laws of nature and of nature's God entitle them, a decent respect to the opinions of mankind requires that they should declare the causes which impel them to the	
	We hold these truths to be sacred and undeniable, that all men are created equal and independent, that from that equal creation they derive rights inherent and inalienable, among which are the preservation of life, and liberty, and the pursuit of happiness; that to secure these ends, governments are instituted among men, deriving their just powers from the consent of the governed; that whenever any form of government shall become destructive of these ends, it is the right of the people to alter or to abolish it, and to institute new government, laying its foundation on such principles and organising its powers in such form, as to them		separation. We hold these truths to be self-evident, that all men are created equal, that they are endowed by their Creator with certain unalienable rights, that among these are life, liberty, and the pursuit of happiness; that to secure these rights, governments are instituted among men, deriving their just powers from the consent of the governed; that whenever any form of government shall become destructive of these ends, it is the right of the people to alter or to abolish it, and to institute new government, laying its foundation on such principles and organising its powers in such form, as to them	
	shall seem most likely to effect their safety and happiness. Prudence, indeed, will dictate that governments long established should not be changed for light and transient causes; and accordingly all experience hath shewn that mankind are more disposed to suffer while evils are sufferable, than to right themselves by abolishing the forms to which they are accustomed. But when a long train of abuses and usurpations, begun at a distinguished period, and pursuing invariably the same object, evinces a design to subject them to arbitrary power, it is their right, it is their duty, to throw off such government and to provide new guards for their future security. Such has been the patient sufferance of these colonies; and such is now the necessity which constrains them to expunge their former systems of		shall seem most likely to effect their safety and happiness. Prudence, indeed, will dictate that governments long established should not be changed for light and transient causes; and accordingly all experience hath shewn that mankind are more disposed to suffer while evils are sufferable, than to right themselves by abolishing the forms to which they are accustomed. But when a long train of abuses and usurpations, pursuing invariably the same object, evinces a design to reduce them under absolute despotism, it is their right, it is their duty, to throw off such government and to provide new guards for their future security. Such has been the patient sufferance of these colonies; and such is now the necessity which constrains them to expunge their former systems of government. The	
V	government. The history of his present majesty, is a history of unremitting injuries and usurpations, among which no one fact stands single or solitary to contradict the uniform tenor of the rest, all of which have in direct object the establishment of an absolute tyranny over these states. To prove this, let facts be submitted to a candid world, for the truth of which we pledge a faith yet unsullied by falsehood. He has refused his assent to laws the most wholesome and necessary for the public good.		history of the present King of Great Britain is a history of repeated injuries and usurpations, all of which have in direct object the establishment of an absolute tyranny over these states. To prove this, let facts be submitted to a candid world. He has refused his assent to laws the most wholesome and necessary for the public good. He has forbidden his governors to pass laws of immediate	7

XanaduSpace



Internet Archive <u>http://archive.org</u>





Internet Archive http://archive.org

Internet Archive <u>http://archive.org</u>





America Online (AOL)

1994-2009

YAHOO! GEOCITIES

SERVICE ANNOUNCEMENT

Final notice: GeoCities is closing.

Dear Yahoo! GeoCities customer,

We're writing to remind you that Yahoo! GeoCities, our free web site building service and community, is closing on October 26, 2009.

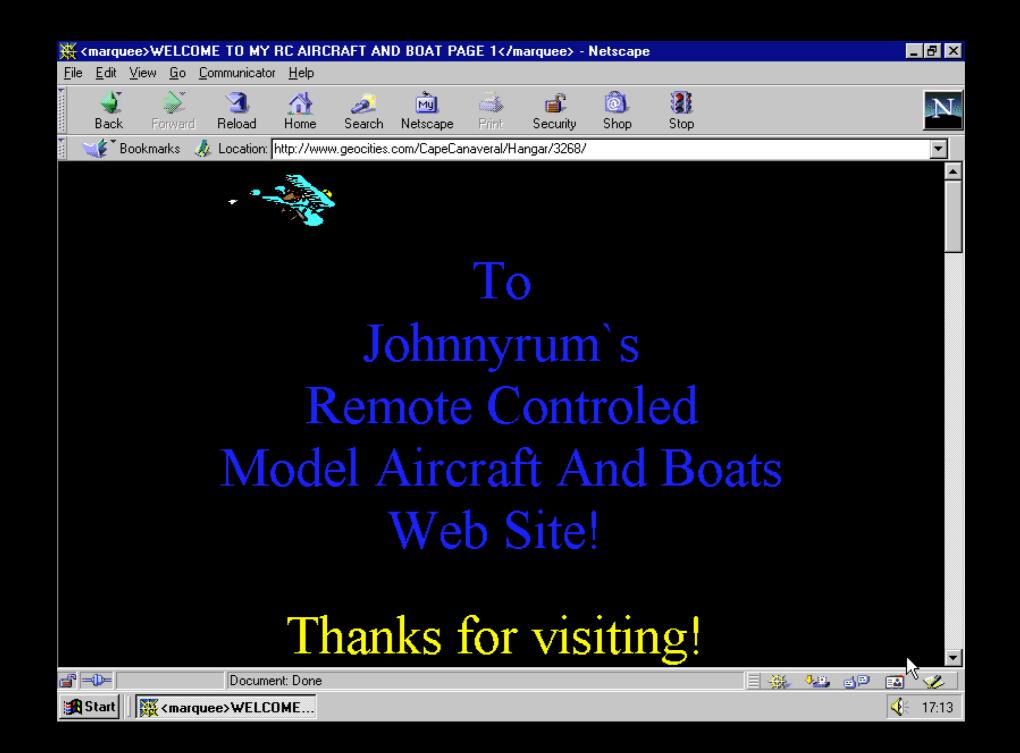
On October 26, 2009, your GeoCities site will no longer appear on the Web, and you will no longer be able to access your GeoCities account and files.

What You Need to Do

If you'd like to move your web site, or save the images and other files you've posted online, you need to act now by choosing one of the following options:

Yahoo! GeoCities

2011-



One Terabyte of Kilobyte Age: Digging through the Geocities Torrent Olia Lialina & Dragan Espenschied <u>http://blog.geocities.institute</u>

Attention Shoppers: Internet Is Open

By PETER H. LEWIS Published: August 12, 1994

At noon yesterday, Phil Brandenberger of Philadelphia went shopping for a compact audio disk, paid for it with his credit card and made history.

e-commerce

2000s-2010s



Switching from the Page to the Feed via Anil Dash, "The Web We Lost," 2013

2001



WIKIPEDIA The Free Encyclopedia

Wikipedia

2000s, 2010s-



"Imagine a world without free knowledge"

Net Neutrality, SOPA, PIPA





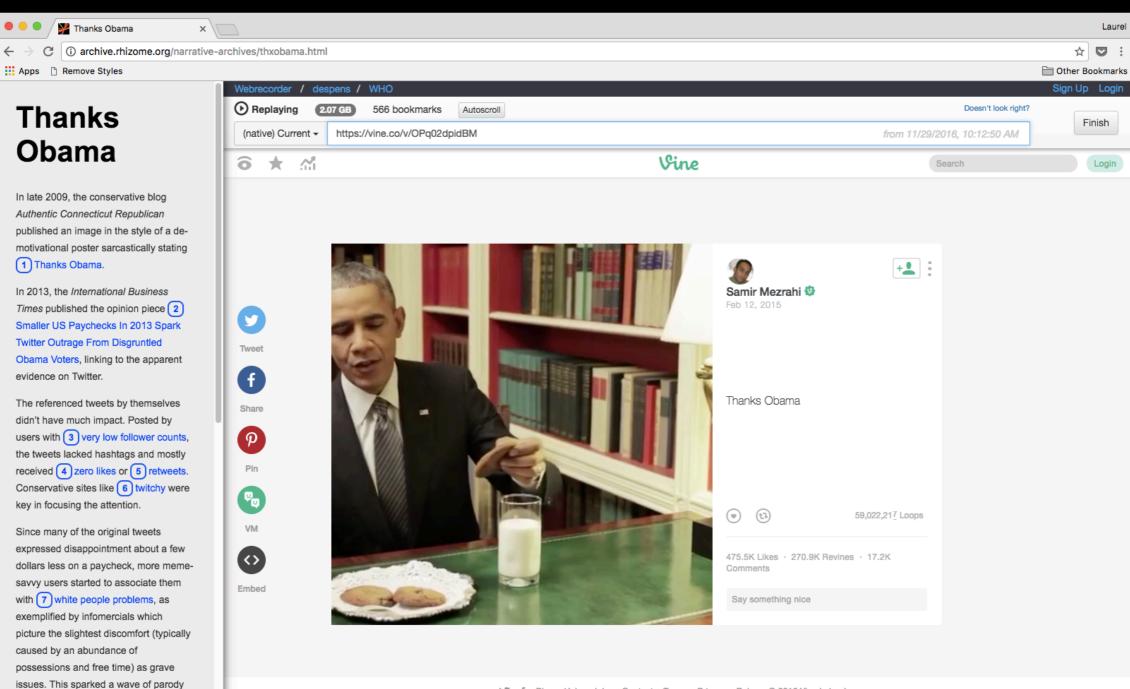
iPhone





Rhizome's Webrecorder

2016



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Rhizome's Webrecorder

GIFs being made, combining the

2010s-

The Internet of Things

Key Terms

A <u>host</u> is a computer on the network that can communicate with other computers. Think of it as a single node in the network diagrams.

When a host sends information, it's called a server. When a host receives information, it's called a *client*. <u>Protocol</u> is a way in which information is passed from one computer to another. It's like a language that all hosts (computers on the network) speak. Many protocols that make up the internet as we know it:

- HTTP hypertext transfer protocol
- FTP file transfer protocol
- IP internet protocol
- TCP transmission control protocol

<u>DNS</u> stands for "Domain Name Service." Every website is actually a number (its IP), but DNS lets us refer to these numbers with language.

Example: allmyfriendsatonce.com = 198.74.60.197 Most websites have:

1. <u>Server</u> (a computer always connected to the Internet that sends information when you request it)

Such as dreamhost.com, mediatemple.com, godaddy.com, etc. These are called "hosting providers." From a host, you'll receive your own unique IP (string of numbers).

2. <u>Domain</u> (a special name for the server)

Domains are simply special words that the host points to, like veryinteractive.net. You can buy domains at "domain name registrars" such as name.com, iwantmyname.com, namecheap.com, etc.

X. THE FUTURE

