

ACCESSIBILITY & WEB HISTORY

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"The power of the Web is in its universality. Access by everyone regardless of disability is an essential aspect."

Tim Berners-Lee, W3C Director and inventor of the World Wide Web (1997)



What is accessibility?

Giving users with disabilities or impairments alternative ways to access "products"

- These products can be web pages or other types of digital documents
- Educational, governments, some business clients may require it

In some countries it is also mandated by law

What is accessibility?

When you focus on accessibility you tend to build **better stuff**

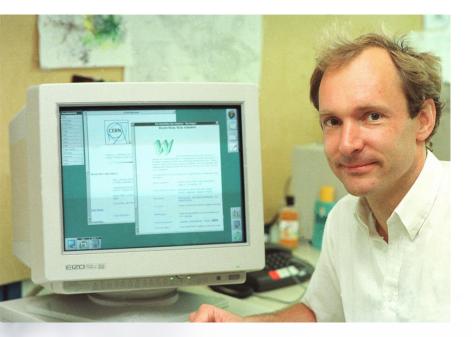
Web applications built considering the needs of

- blind or visually impaired users are easier to use in external environments with a lot of light
- deaf or hard of hearing users can benefit those who do not know well the language or in noisy environments



WEB HISTORY

1989, at CERN





CERN DD/OC

Tim Berners-Lee, CERN/DD

Information Management: A Proposal

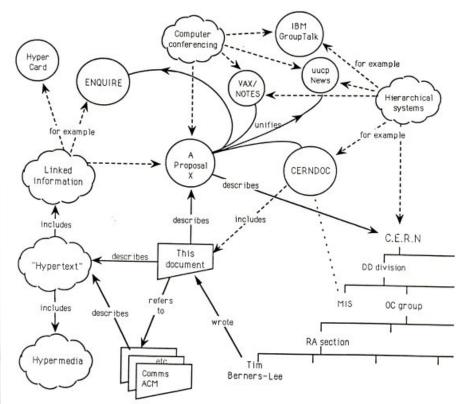
March 1989

Information Management: A Proposal

Abstract

This proposal concerns the management of general information about accelerators and experiments at CERN. It discusses the problems of loss of information about complex evolving systems and derives a solution based on a distributed hypertext system.

Keywords: Hypertext, Computer conferencing, Document retrieval, Information management, Project control



Source: https://home.cern/science/computing/birth-web/short-history-web

1st web page, textual browsers



▲ Not secure info.cern.ch/hypertext/WW... < ☆ 🛊 🔲 🥙 :







World Wide Web

The WorldWideWeb (W3) is a wide-area <u>hypermedia</u> information retrieval initiative aiming to give universal access to a large universe of documents.

Everything there is online about W3 is linked directly or indirectly to this document, including an executive summary of the project, Mailing lists, Policy, November's W3 news, Frequently Asked Questions .

What's out there?

Pointers to the world's online information, subjects, W3 servers, etc.

Help

on the browser you are using

Software Products

A list of W3 project components and their current state. (e.g. Line Mode, X11 Viola, NeXTStep, Servers, Tools, Mail robot, Library)

Technical

Details of protocols, formats, program internals etc

Bibliography

Paper documentation on W3 and references.

People

A list of some people involved in the project.

History

A summary of the history of the project.

How can I help?

If you would like to support the web..

Getting code

Getting the code by anonymous FTP, etc.

1st web page, textual browsers

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The WorldWideWeb (W3) is a wide-area Internet Gopher Information Client v1.12

Root gopher server: gopher.tc.umn.edu

- Information About Gopher/
 - Computer Information/ 2.
 - 3. Internet file server (ftp) sites/
 - Fun & Games/
 - Libraries/
 - 6. Mailing Lists/
 - UofM Campus Information/ 7.
 - 8. Neus/
 - Other Gopher and Information Servers/
 - 10. Phone Books/
 - 11. Search lots of places at the U of M <?>

Press ? for Help, q to Quit, u to go up a menu

Page:1/1

1st web page, textual browsers

▲ Not secure info.cern.ch/hypertext/WW... < ☆ 🛊 🗖 🦚







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Getting code

ttp://lynx.invisible-island.net/release/

Getting the code by anonymous FTP, etc.

Lynx

Lynx Informatio

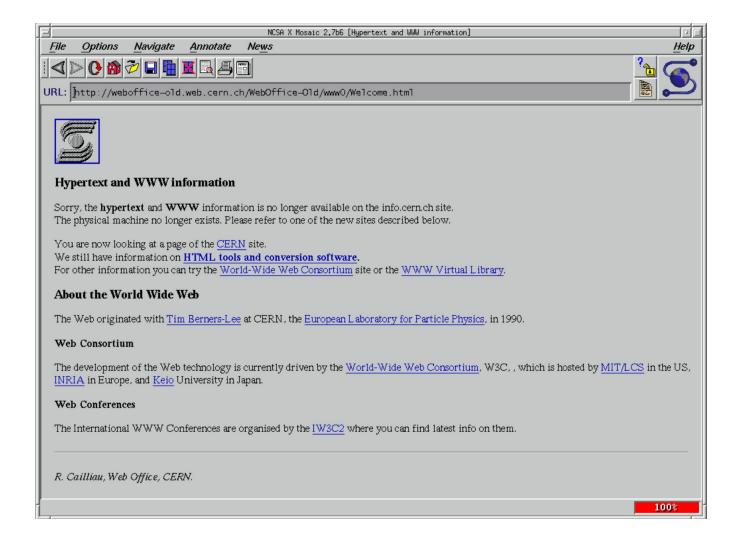
Lynx is a text browser for the World Wide Web. Lynx 2.8.8 runs on Un*x, MacOS, VMS, Windows 95/98/NT, DOS386+ (but not 3.1, 3.11), as well as OS/2 EMX. The current developmental version (2.8.9) is also available for testing.

- * Many user questions are answered in the online help provided with Lynx. Press the '?' key to find this help.
- * If you are encountering difficulty with Lynx you may write to mu.org. Be as detailed as you can about the URL where you were on the Web when you had trouble, what you did, what Lynx version you have (try '=' key), and what OS you have. If you are using an older version, you may well need to upgrade.

Maintained by web@lynx.browser.org.

1993, at NCSA

The National Center for Supercomputing Applications (University of Illinois) released a first version of its **Mosaic** browser



1994, first conference on WWW



May 25-26-27 1994, CERN, Geneva (Switzerland)

- The Conference on the MBONE
- · For the volunteers
- Attention All Attenders
- Welcome reception & Registration
- Holiday
- Hotels
- Organisation

Attention All Attenders: read notices lower down.

We will relay some of the events on the MBONE, and also to the California SIGWEB meeting, watch this document!

You should not forget to cast your vote for the Awards!

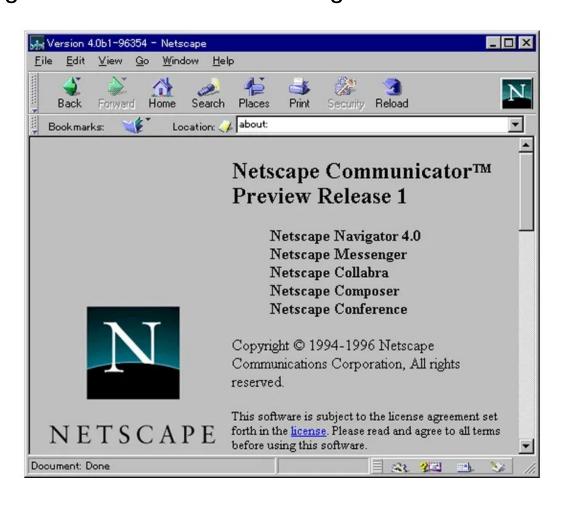
Welcome Reception and Registration

There will be a welcome reception on Tuesday 24 May, from 18:00 to 22:00 in the restaurant of CERN.

The registration office will be open from 18:00 to 21:00 in the same room. (see above on how to get there)

1994, at Netscape Communications

Netscape announced in its first press release (13/10/1994) that it would make Navigator available without charge to all non-commercial users

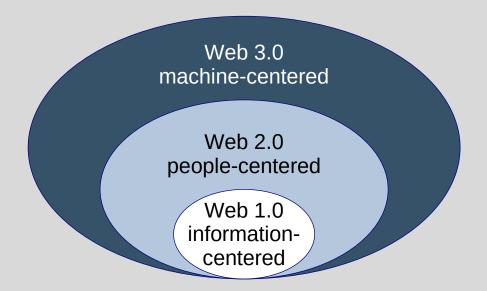


Thanks to user-friendly browsers

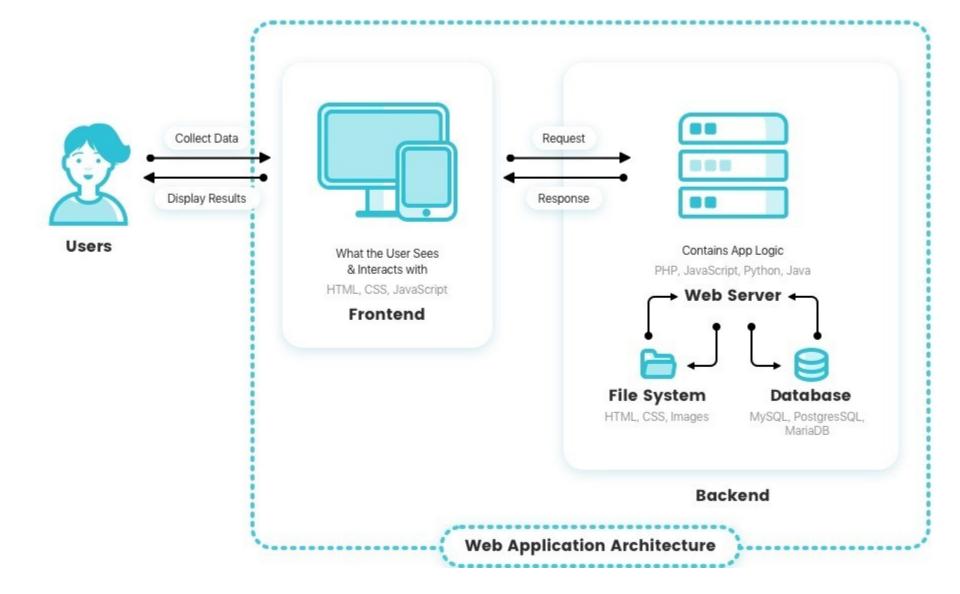




Web 1.0, Web 2.0, Web 3.0



Source: https://www.geeksforgeeks.org/web-1-0-web-2-0-and-web-3-0-with-their-difference/



1991 – 2004, Web 1.0

First stage of the WWW evolution

Information-centered

- personal web pages
- no advertisements on websites
- "controlled" content

1991 – 2004, Web 1.0

Web 1.0 site design

- static pages
- content served from the server's file system
- pages built using Server Side Includes (SSI) or Common Gateway Interface (CGI)
- Frames and Tables used to position and align the elements on pages

User-generated content, usability, interoperability for the users

Called the participative social web

Not real modification to any technical specification, but changes in the way web pages are designed and used

Enhanced front-end thanks to web browser technologies such as AJAX and JavaScript frameworks

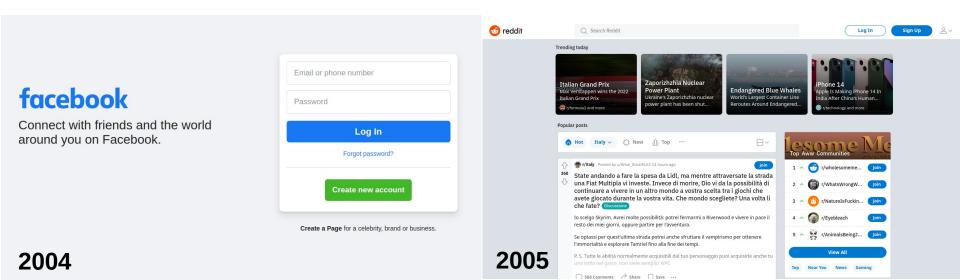
Online tools and platforms where people share their perspectives, opinions, thoughts, and experiences

- Podcasting
- Blogging
- Tagging
- Social networking
- Social media
- Web content voting
- Marketplace (eBay, Amazon, Uber,...)
- Complex video creation (TikTok)

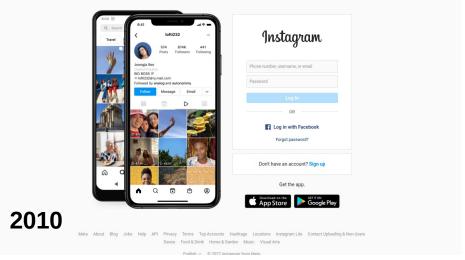
WikipediA

The Free Encyclopedia









and many others...

20?? - today, Web 3.0

Web 3.0 is a term that is used to describe **many evolution of web usage** and interaction among several paths

After a long time of focusing on the front-end, the backend of the web becomes fundamental

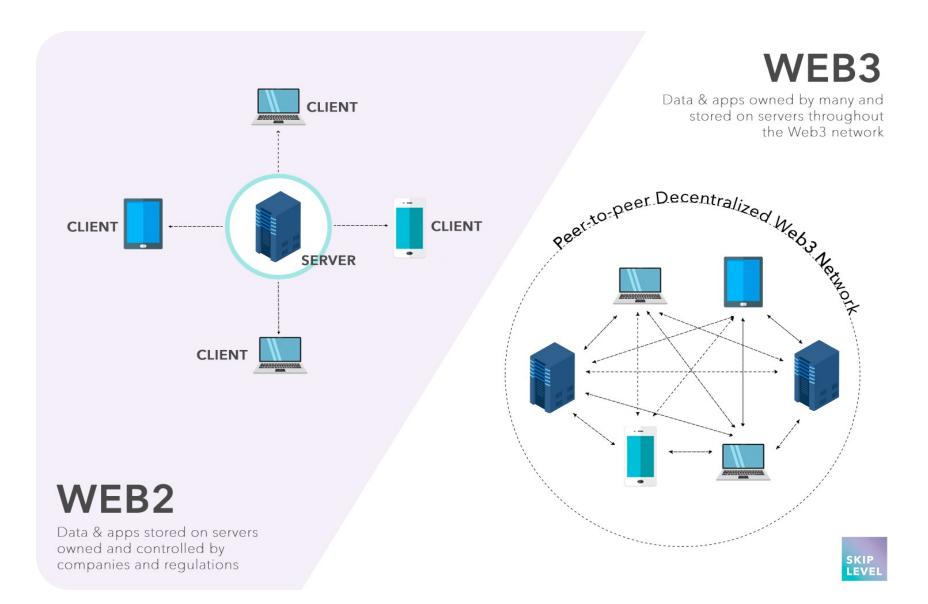
Data is not owned but instead shared, and services show different views for the same web / the same data

20?? – today, Web 3.0

Topics which are included in Web 3.0 are

- Semantic web
- Artificial Intelligence
- 3D graphic
- Ubiquity
- DLT and Smart Contract

20?? - today, Web 3.0



	Web 1.0	Web 2.0	Web 3.0
1.	Mostly Read-Only	Wildly Read-Write	Portable and Personal
2.	Company Focus	Community Focus	Individual Focus
3.	Home Pages	Blogs / Wikis	Live-streams / Waves
4.	Owning Content	Sharing Content	Consolidating Content
5.	WebForms	Web Applications	Smart Applications
6.	Directories	Tagging	User behavior
7.	Page Views	Cost Per Click	User Engagement
8.	Banner Advertising	Interactive Advertising	Behavioral Advertising
9.	Britannica Online	Wikipedia	The Semantic Web
10.	HTML/Portals	XML / RSS	RDF / RDFS / OWL

11.	Data was not Focused.	Data of many was controlled by some mediatory.	Data was personalized and no use of mediatory.
12.	Information sharing is the goal.	Interaction is the goal.	Immersion is the goal.
13.	It connects information as its primary goal.	It aims to connect people.	Focuses on relating knowledge.
14.	Static websites	Introduction of web applications	Intelligent web-based functions and apps
15.	A simpler, more passive web.	An enhanced social Web	A semantic web exists.
16.	Web and File Servers, HTML, and Portals are technologies connected to Web 1.0.	AJAX, JavaScript, CSS, and HTML5 are examples of related technology.	Web 3.0 technologies include blockchain, artificial intelligence, and decentralized protocols.
17.	 Associated Technologies:- Web and File Servers Search Engines (including AltaVista and Yahoo!) E-mail accounts (Yahoo!, Hotmail) Peer-to-Peer File Sharing (Napster, BitTorrent) and others. 	 Associated Technologies:- Frameworks for Ajax and JavaScript Microsoft.NET Blogs Wikis and others. 	 Associated Technologies:- Searching Using Semantics Databases of Information Ontologies Intelligent Digital Personal Assistants and others.

