

THE WEB IS NOT THE INTERNET

- A BRIEF HISTORY OF THE WORLD WIDE WEB -



"During some sessions in the CERN cafeteria,
Tim and I try to find a catching name for the system. […]
Tim proposes "World-Wide Web". I like this very much,
except that it is difficult to pronounce in French…"

(Robert Cailliau, 1995)

Quote: http://www.netvalley.com/archives/mirrors/robert_cailliau_speech.htm



CERN research centre in Geneva, Switzerland researchers Tim Berners-Lee and Robert Cailliau joint proposal for "World-Wide Web"

developed to "meet the demand for automated information-sharing between scientists in universities and institutes around the world". [1], [2]

1989



1960s terms hypertext, hypermedia coined by Ted Nelson

1970s

Transmission Control Protocol/Internet Protocol (TCP/IP) invented by Vint Cerf and Robert (Bob) Elliot Kahn [1]

1980s Mail Transfer Protocol (MTP, SMTP); Suzanne Sluizer, Jon Postel [2]

 $[1] \ https://www.darpa.mil/attachments/ARPANET_final.pdf, \ https://doc.lagout.org/network/The \%20 Illustrated \%20 Network.pdf$

[2] https://www.cnet.com/tech/tech-industry/end-of-the-road-for-smtp/



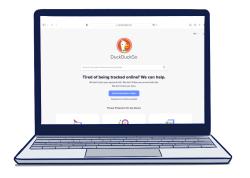
HTML (HyperText Markup Language with "hyperlinks")

HTTP

(HyperText Transfer Protocol; conventions for client-server communication on the Web)

URI (Uniform Resource Identifier)







GET Path HTTP/1.0

Host: Host

User-Agent: Mozilla

. . .



The web browser



First operating-system-independent web browser – "Line-Mode browser" – was written by undergraduate CERN intern Nicola Pellow in 1990. [1]



an undergraduate moth student, Nicola low joined the select members of the WWW ject at Sweden's CERN in 1990. She helped ate the first web browser compatible across y operating systems, making web browsing adly available for the first time.

www

A collection of innovations by women in the fields of computer science and technology.

NoWebWithoutWomen.com

[1] https://nowebwithoutwomen.com/images/Nicola_Pellow.pdf

Image: screenshot PDF https://nowebwithoutwomen.com/images/Nicola_Pellow.pdf

Early web servers & repositories



early 1990s arXiv preprint repository switches from email to HTTP access for manuscript transmission. [1]1992 Deutsches Elektronen-Synchrotron DESY in Hamburg connects a web server to the WWW.

Web repositories store and publish (scholarly) digital objects – like paper publications and research data – and their metadata records. They aim to improve the persistent findability and accessibility of research output on the Web. [2]









Über welches Protokoll wurde Anfang der 1990er auf das heutige arXiv.org zugegriffen?

Photo: Kindly provided by Paul Ginsparg

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MK 3.4 Digitale Repositorien

2

[1] https://ar5iv.labs.arxiv.org/html/1709.07020

[2] https://depositonce.tu-berlin.de/handle/11303/5330

Image: screenshot of slide 24; Pascal Becker (2022). "Digitale Repositorien". Potsdam University of Applied Sciences

Registries of repositories



Repositories are indexed for findability in registry services.

www.re3data.org v2.sherpa.ac.uk/opendoar risources.dfg.de

