### **CERN** – Κτίριο 31









Tim Berners-Lee





1980 – Enquire





1984 – Συνεργασία με το CERN

## Μάρτιος 1989



### WorldWideWeb: Proposal for a HyperText Project

To:

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From:

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Date:

12 November 1990

The attached document describes in more detail a Hypertext project.

HyperText is a way to link and access information of various kinds as a web of nodes in which the user can browse at will. It provides a single user-interface to large classes of information (reports, notes, data-bases, computer documentation and on-line help). We propose a simple scheme incorporating servers already available at CERN.

The project has two phases: firstly we make use of existing software and hardware as well as implementing simple browsers for the user's workstations, based on an analysis of the requirements for information access needs by experiments. Secondly, we extend the application area by also allowing the users to add new material

Phase one should take 3 months with the full manpower complement, phase two a further 3 months, but this phase is more open-ended, and a review of needs and wishes will be incorporated into it.

The manpower required is 4 software engineers and a programmer, (one of which could be a Fellow). Each person works on a specific part (eg. specific platform support).

Each person will require a state-of-the-art workstation, but there must be one of each of the supported types. These will cost from 10 to 20k each, totalling 50k. In addition, we would like to use commercially available software as much as possible, and foresee an expense of 30k during development for one-user licences, visits to existing installations and consultancy.

We will assume that the project can rely on some computing support at no cost: development file space on existing development systems, installation and system manager support for daemon software.

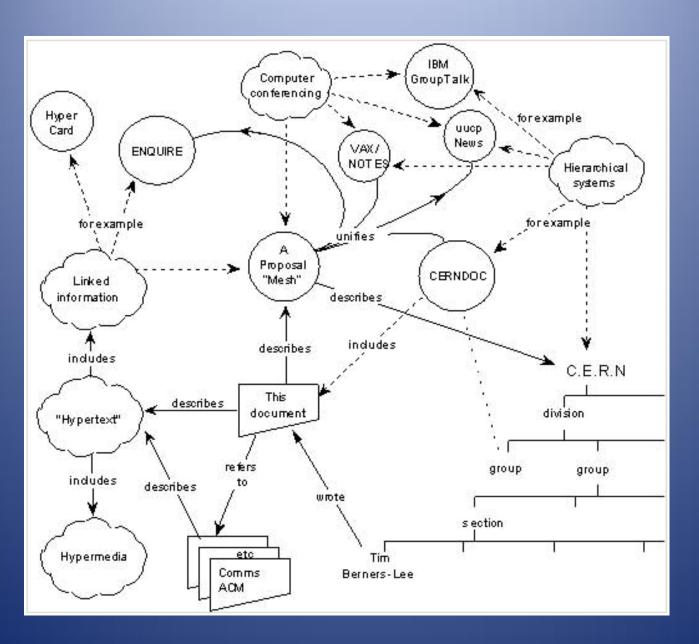
T. Berners-Lee R. Cailliau

#### WorldWideWeb:

Proposal for a HyperText Project
T. Berners-Lee / CN. R. Cailliau / ECP

#### Abstract:

HyperText is a way to link and access information of various kinds as a web of nodes in which the user can browse at will. Potentially, HyperText provides a single user-interface to many large classes of stored information such as reports, notes, data-bases, computer documentation and on-line systems help. We propose the implementation of a simple scheme to incorporate several different servers of machine-stored information already available at CERN, including an analysis of the requirements for information access needs by experiments.







09/1990 -European Conference on Hypertext Technology

12/1990 - Το πρώτο Web Site







10/1990 – Robert Cailliau – 2<sup>η</sup> δημοσίευση

## Τα πρώτα εργαλεία



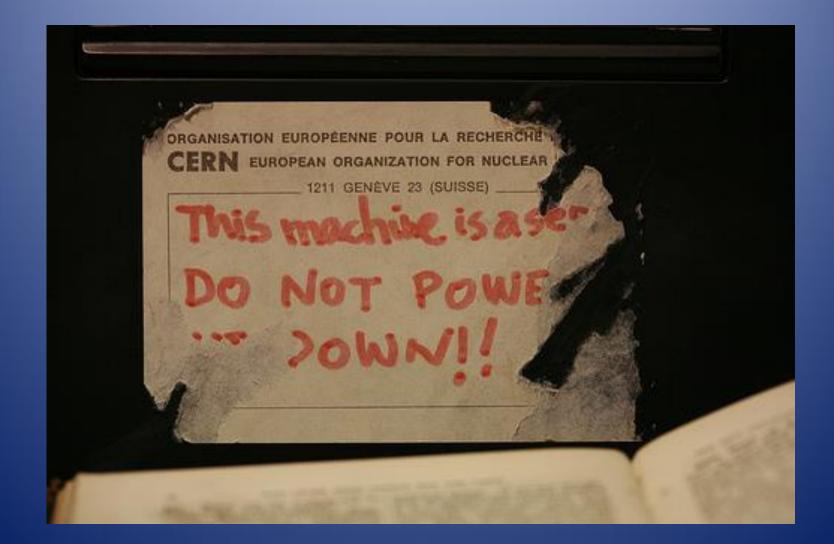
- HyperText Transfer Protocol (HTTP) 0.9
- HyperText Markup Language (HTML)
- Web browser (WorldWideWeb, ήταν και Web editor)
- HTTP server software (CERN httpd)
- web server (<a href="http://info.cern.ch">http://info.cern.ch</a>)
- Web pages που περιέγραφαν το project

# Ο πρώτος web server









Manufacturer NeXT, <u>Fremont, California</u>, plant

Type <u>Workstation</u>

Release date 1988

Introductory price US\$6500

Discontinued 1990

Operating system NeXTSTEP, OPENSTEP

Power 300 Watts, 3 Amperes

CPU

Motorola 68030 @ 25 MHz, 68882 FPU @ 25 MHz,
56001 digital signal processor (DSP) @ 25 MHz

Memory shipped with 8 MiB, expandable to 16 MiB using 1 MiB Single Inline Memory Modules (SIMMs)

Storage 256 MiB <u>magneto-optical drive</u>, optional <u>hard disk</u>

Display MegaPixel 17" monitor

Graphics 1120×832 pixel resolution, four-level grayscale

Sound built-in <u>speakers</u>

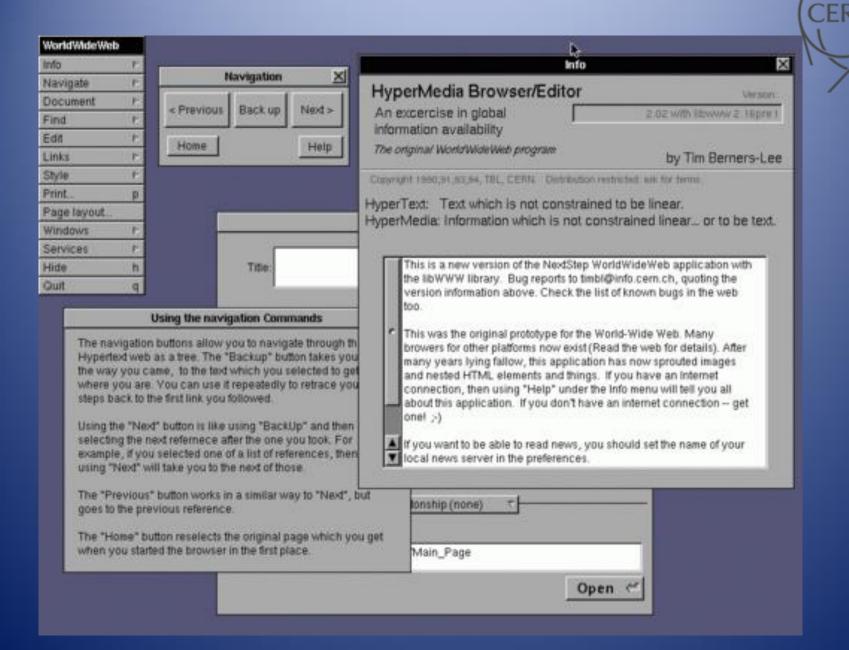
Input 85-key keyboard, 2-button mouse

Connectivity <u>Ethernet</u>

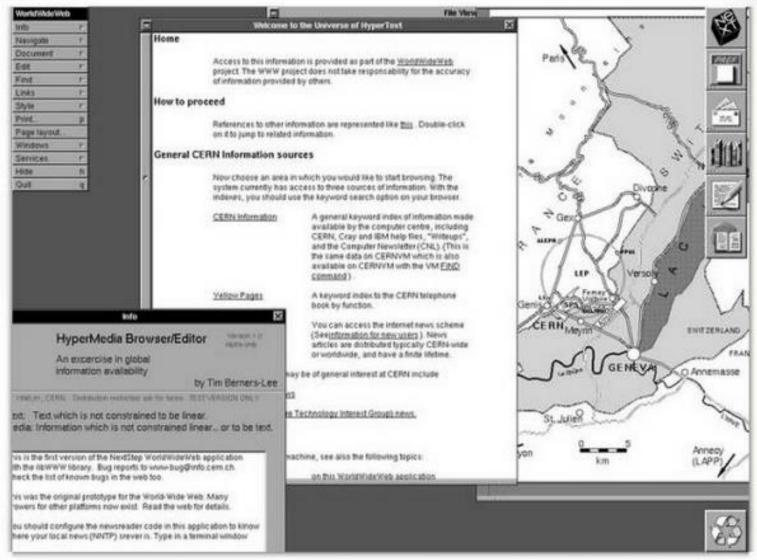
Dimensions 1-foot (305 mm) <u>die-cast magnesium</u> cube-shaped case

Successor NeXTcub





### http://info.cern.ch











01/1991 – Web servers εκτός CERN 04/1993 www λογισμικό ελεύθερα διαθέσιμο









01/1993 - 50 web servers

10/1993 ->500 web servers



### ORGANISATION EUROPEENNE POUR LA RECHERCHE NUCLEAIRE CERN EUROPEAN ORGANIZATION FOR NUCLEAR RESEARCH

### STATEMENT CONCERNING CERN W3 SOFTWARE RELEASE INTO PUBLIC DOMAIN

#### TO WHOM IT MAY CONCERN

#### Introduction

The World Wide Web, hereafter referred to as W3, is a global computer networked information system.

The W3 project provides a collaborative information system independent of hardware and software platform, and physical location. The project spans technical design notes, documentation, news, discussion, educational material, personal notes, publicity, bulletin boards, live status information and numerical data as a uniform continuum, seamlessly intergated with similar information in other disciplines.