Web Technologies

Spring 2025

CS6.201 - Introduction to Software Systems







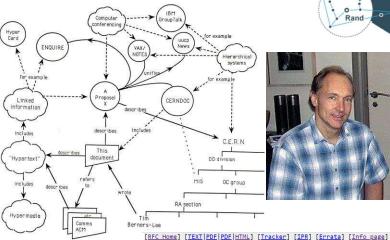
March 1989

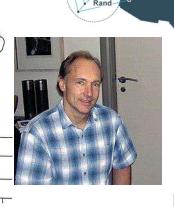
Information Management: A Proposal

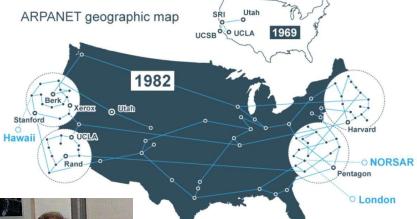
Abstract

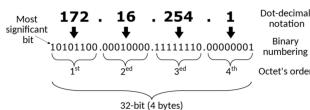
This proposal concerns the management of general information about accelerators and experiments at CERN. It discusses the problems of loss of information about complex evolving systems and derives a solution based on a distributed hypertext sytstem.

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

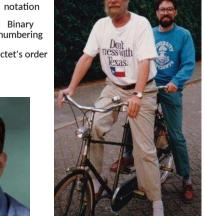








numbering Octet's order

















https://www.rfc-editor.org



INTERNET STANDARD Errata Exist Network Working Group Vint Cerf Request for Comments: 20 October 16, 1969

ASCII format for Network Interchange

For concreteness, we suggest the use of standard 7-bit ASCII embedded in an 8 bit byte whose high order bit is always 0. This leads to the standard code given on the attached page, copies from USAS X3, 4-1968. This code will be used over HOST-HOST primary connections. Break characters will be defined by the receiving remote host, e.g. SRI uses "." (ASCII X'2E' or 2/14) as the end-of-line character, where as UCLA uses X'OD' or $\theta/13$ (carriage return).



1. Scope

This coded character set is to be used for the general interchange of information among information processing systems, communication systems, and associated equipment.





















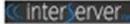












https://www.whois.com https://www.datacentermap.com





Content Delivery Network





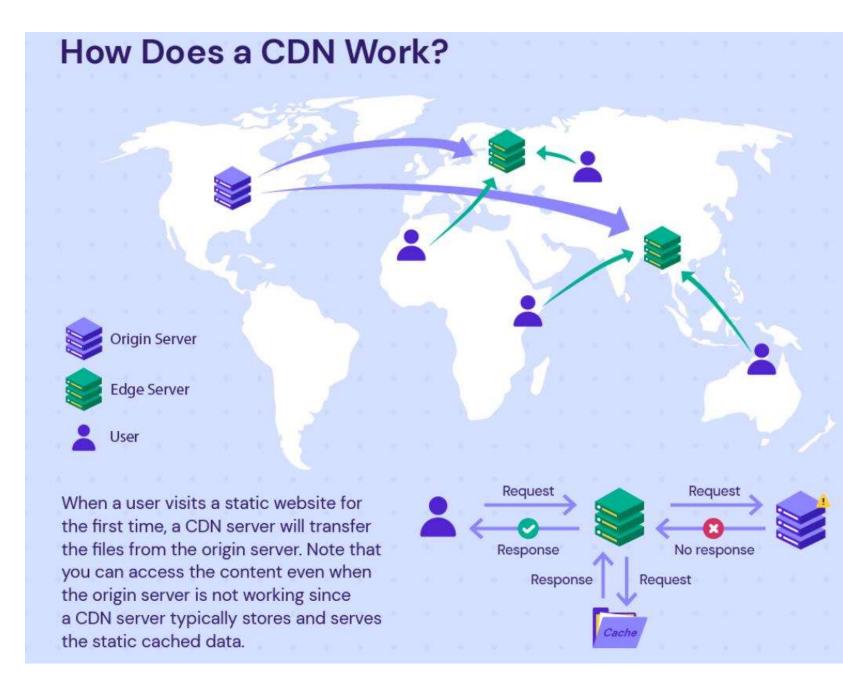


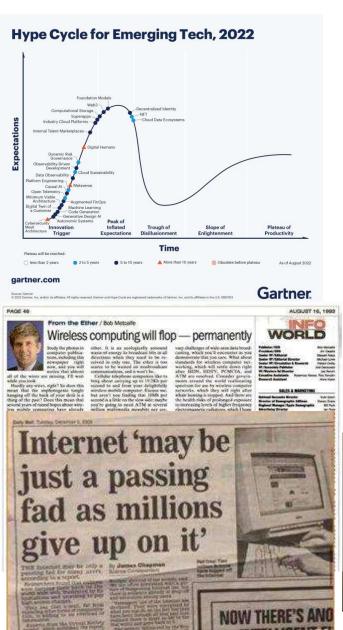


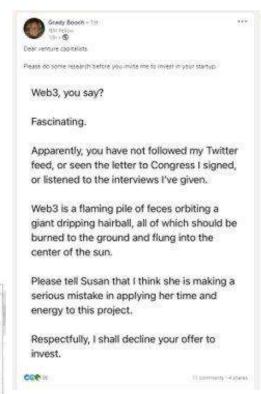












The Internet? Bah! Hype Alert: Why cyberspace isn't, and will never the special properties of completeness. Let's not that I haven't had a gas of a good time on the Internet. I've met great people and even caught a hacker or two, But today I'm uneasy about this most trendy and oversold community. Visionaries see a future of telecommuting works, interactive libraries and multimedia classrooms. They speak of electronic town meetings and virtual communities. Commerce and business will shift and the special properties. The special properties and multimedia classrooms. They speak of electronic town meetings and virtual communities. Commerce and business will shift from offices and malls to networks and modems.

Web 1.0

Company-Centered Static Web Pages, Encyclopedia, Phonebook, Static News, Information

READ-ONLY

Almost No-Interaction

READ+WRITE Shared-Dynamic Community-Centered

Email, Wikipedia, Social Network, Stock Market, E-News, Video Websites, Mobile

READ-WRITE-OWN
Al-driven Centered
Individual-Centered

Semantic Web, VR/AR/MR, MetaVerse, DeCentralized Social Networks, NFTs

Web 4.0

Web 3.0

??

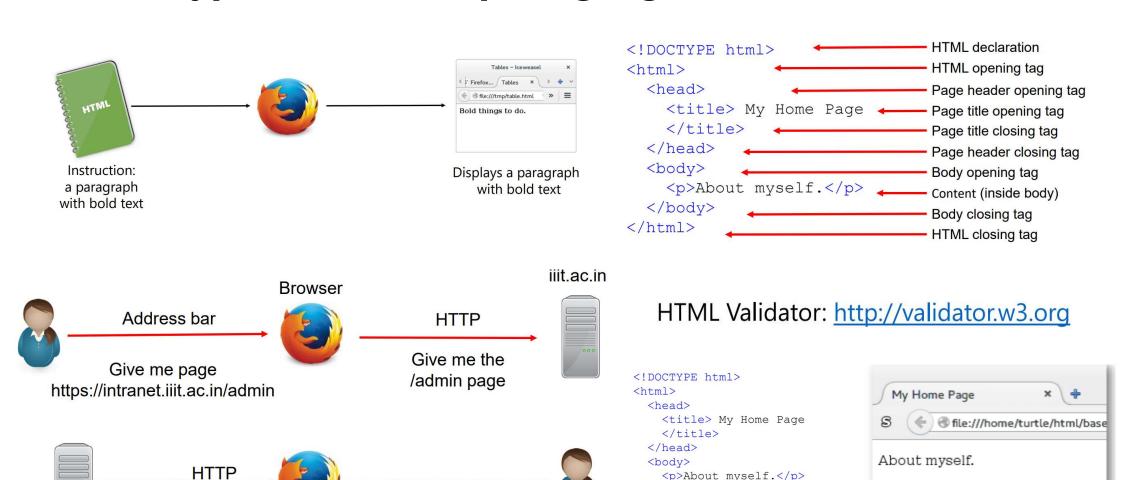
HTML – Hyper Text Markup Language

Rendering of

/admin page

/admin

HTML page



</body>

</html>

CSS – Cascading Style Sheets

- It helps beautify a website. It is considered as a make-up to website
- Color, Background and Borders, Basic Box, Flexible Box, Text, Text Decoration, Fonts, Writing Modes, Table, Lists and Counters, Animation, Transform, Transition, Basic User Interface, Multicolumn, Paged Media, Generated Content, Filter Effects, Image/Replaced Content, Masking, Speech
- It is written in 3 type Inline, Internal, External

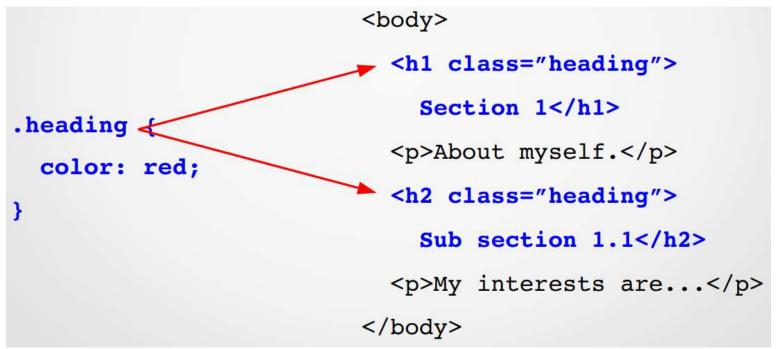
```
Selector Property Value

body {
    color: red;
    font-weight: bold;
}
h1 {
    font-size: 20px;
}
```

CSS Validator: https://jigsaw.w3.org/css-validator/

```
<head>
                                          My Home Page - Iceweasel
  <title> My Home </title>
                                     Index o... My Ho... ×
  ink
                                                               =
                                     file:///tmp/style.html
     rel="stylesheet"
                                     About myself.
     href="style.css">
</head>
In style.css You Write:
body {
  color: red;
                                               External CSS
}
```

CSS Selector with Tag Name



CSS Selector with Class Name

CSS Selector with ID

Priority among various selectors

- Tag (low)
- Class
- ID
- Style attribute (high)

https://developer.mozilla.org/en-US/docs/Web/CSS/Specificity