

Web Programming

Introduction 2

Zaheer Ahmed

- **Lecture 02**

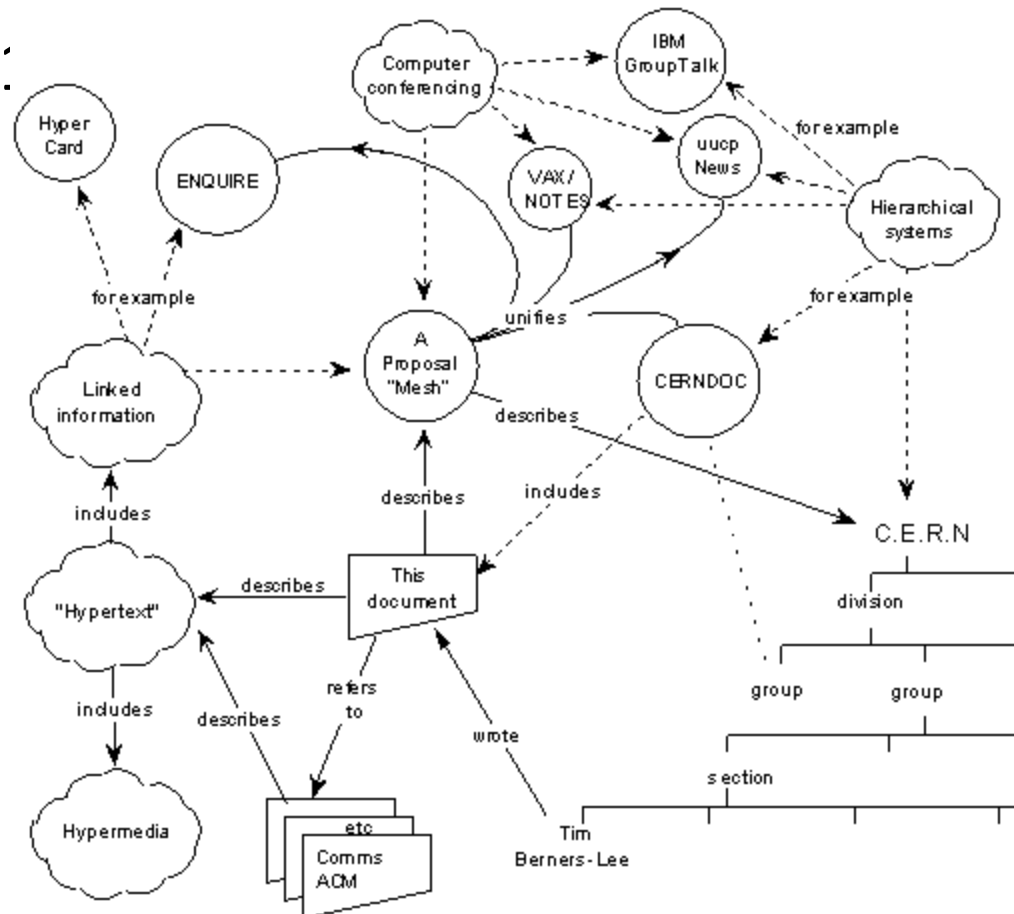
CS406-Web Programming



The Origin of the Web

- Information Management: A Proposal
- Tim Berners-Lee, CERN
- May :

A proposal to build
a global **hypertext**
system for **CERN**

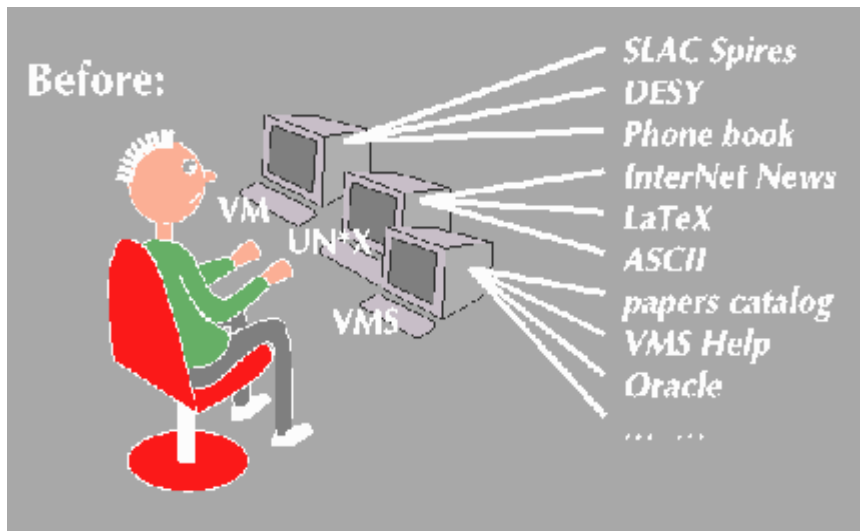


Tim Berners-Lee, CERN

- In 1989, Tim Berners-Lee invented the World Wide Web, an Internet-based hypermedia initiative for global information sharing while at CERN, the European Particle Physics Laboratory. He wrote the first web client and server in 1990. His specifications of URIs, HTTP and HTML were refined as web technology spread. - See more at: <http://internethalloffame.org/inductees/tim-berners-lee?gclid=CMrP8rvNrswCFeUyowod4OEPVg#sthash.ZC1X2rEO.dpuf>

W3 Concepts

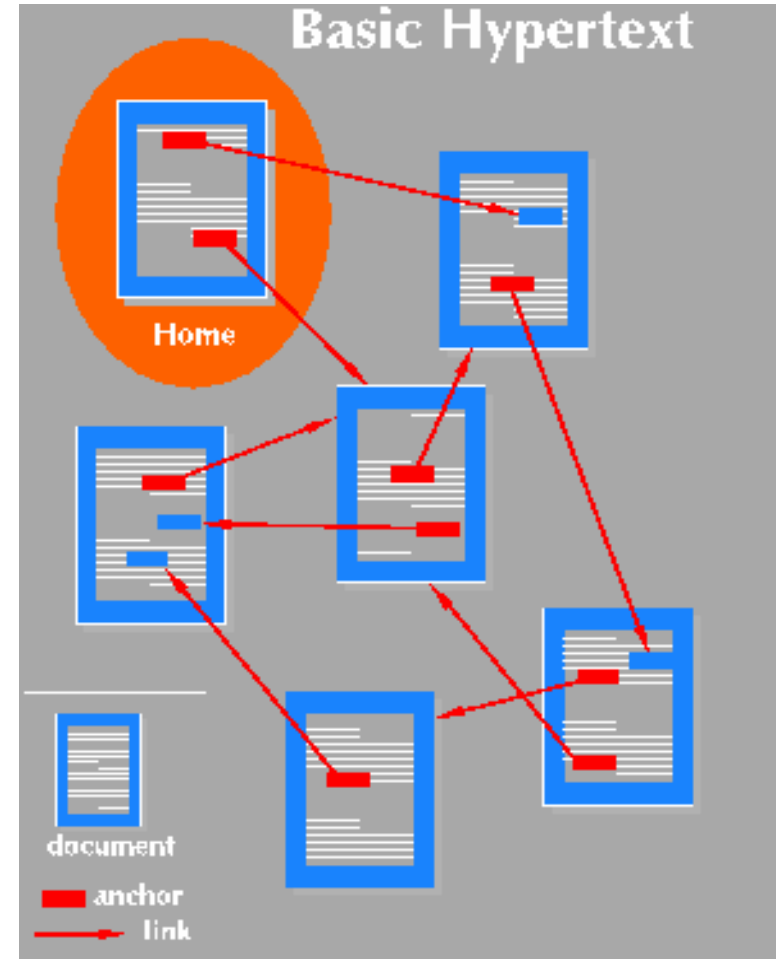
Universal Readership



W3 Concepts

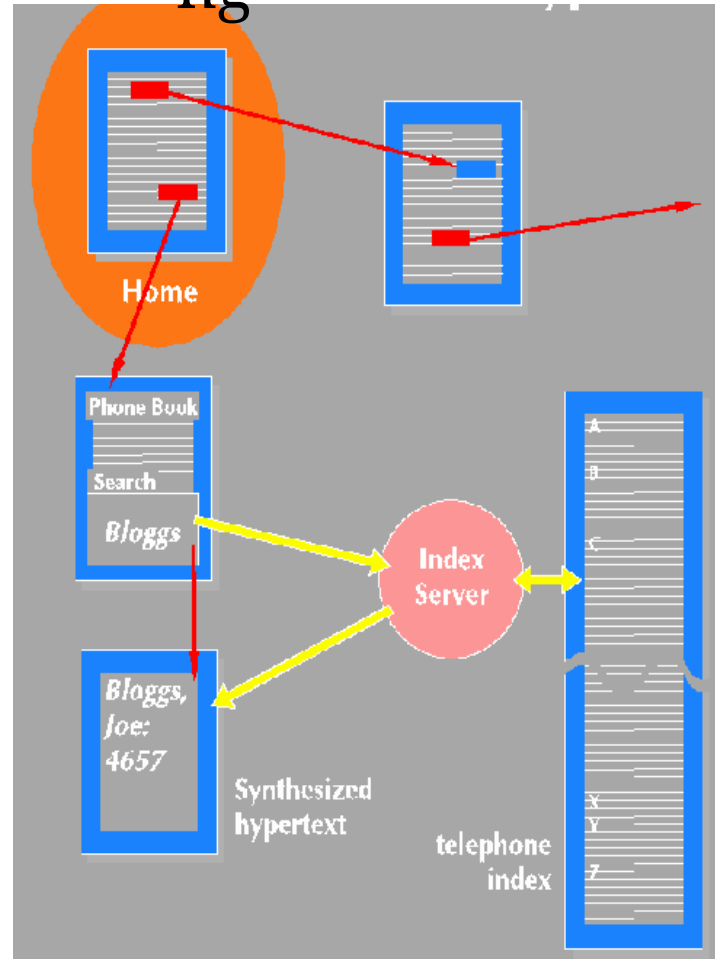
Hypertext

- Hypertext is text with links.
- Not a new idea read a book there are links between references (see section 3), footnotes, and between the table of contents or index and the text.
- With hypertext, reader can escape from the sequential organization of the pages to follow pursue a thread of his or her own



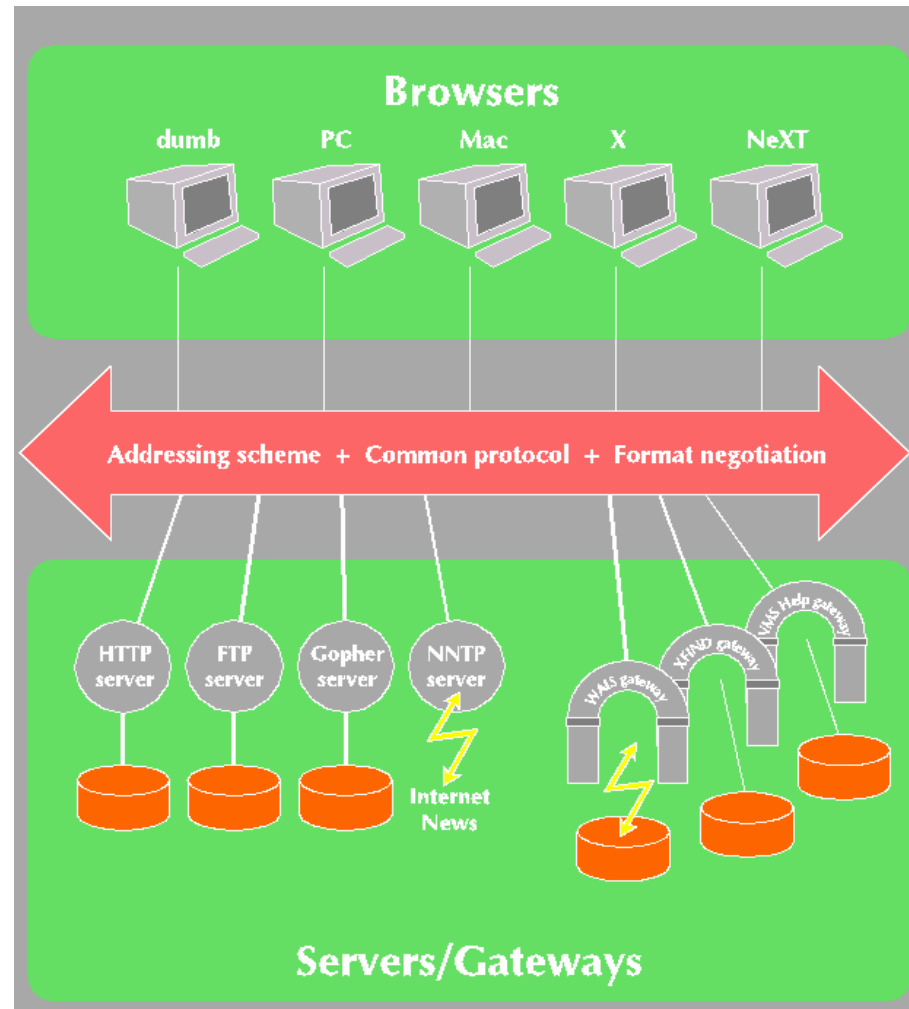
W3 Concepts

Searchi
ng

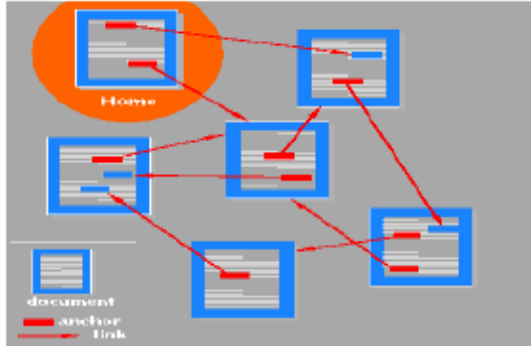


W3 Concepts

Client-Server

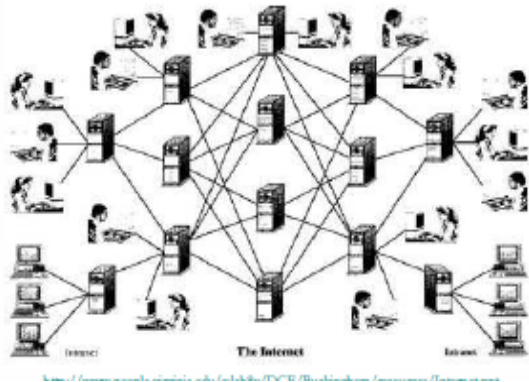


Web vs. Internet



Web: A collection of software and protocols for exchanging multimedia data on the Internet

- Protocols: *HTTP, HTTPS, ...*
- Addressing: *URI (URL)*
- Programs: *Web browsers, Web servers*
- Data Types: *HTML, Images, Music, ...*



Internet: A collection of computers connected in a communications network

- Protocols: *TCP/IP (Transmission Control Protocol / Internet Protocol)*
- Addressing: *Domain names, IP addrs*
- Naming server: *DNS*
- Applications: *SMTP, FTP, Telnet, ...*

SMTP stands for **Simple Mail Transfer Protocol**. **SMTP** is used when email is delivered from an email client, such as Outlook Express, to an email server or when email is delivered from one email server to another. **SMTP** uses port 25.

Textual vs. Graphical

ترجیحات | سائنس انگریز

ویب تصاویر ڈائریکٹری گروپس Gmail

اعلیٰ تلاش

تلاش

books

Google

تلاش: ☒ ویب ☐ پاکستان سے صفحات

ویب books کیلئے تقریباً 818,000,000 میں سے 1 - 10 نتائج (0.25 سیکنڈز)

Google Book Search

Google's collection of digitized **books** includes a large number of **books** related to Old English literature and language. Users can search for **books** by author ...
books.google.com/?utm_source=createcontent...booksearch...

Liberty Books, International Books, Latest Magazines, Digest ...

Stones into Schools: Promoting Peace with **Books**, Not Bombs, in Afghanistan and Pakistan. Save 14.97%. Stones into Schools: Promoting... Greg Mortenson ...
www.libertybooks.com/ - [عارضی طور پر محفوظ کردہ](#) - [میت سے جلتے صفحات](#)

Book - Wikipedia, the free encyclopedia

A **book** is a set or collection of written, printed, illustrated, or blank sheets, made of paper, parchment, or other various material, usually fastened ...
en.wikipedia.org/wiki/Book - [عارضی طور پر محفوظ کردہ](#) - [میت سے جلتے صفحات](#)

بشورک سے نزدیک books کی ملی ملی مقامی کاروباری نتائج - مقام تبدیل کریں

Saeed Book Bank - maps.google.com

Arbab Rd., Peshawar

[مزید معلومات](#)

London Book Agency - maps.google.com

Arbab Rd., Peshawar

[مزید معلومات](#)

Book Centre - maps.google.com

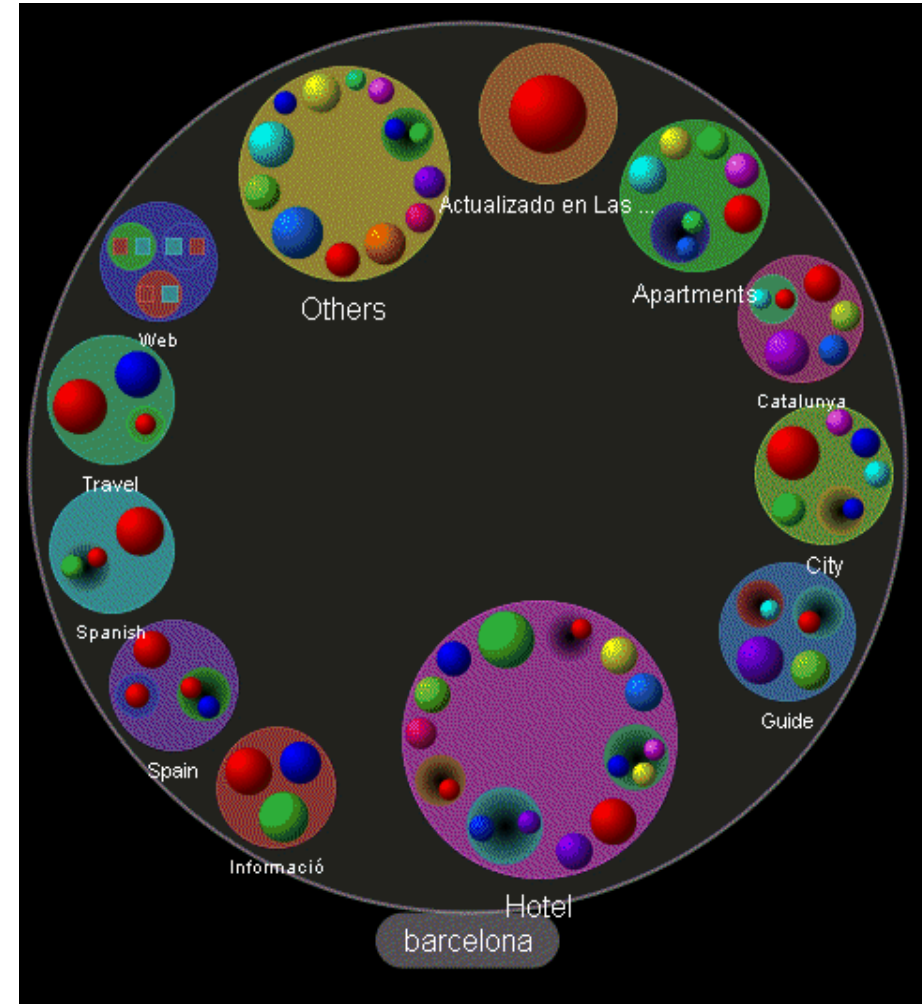
Mall Road, Peshawar - (0)915274060

[مزید معلومات](#)

بشورک سے قریب مزید نتائج



google.com.
pk

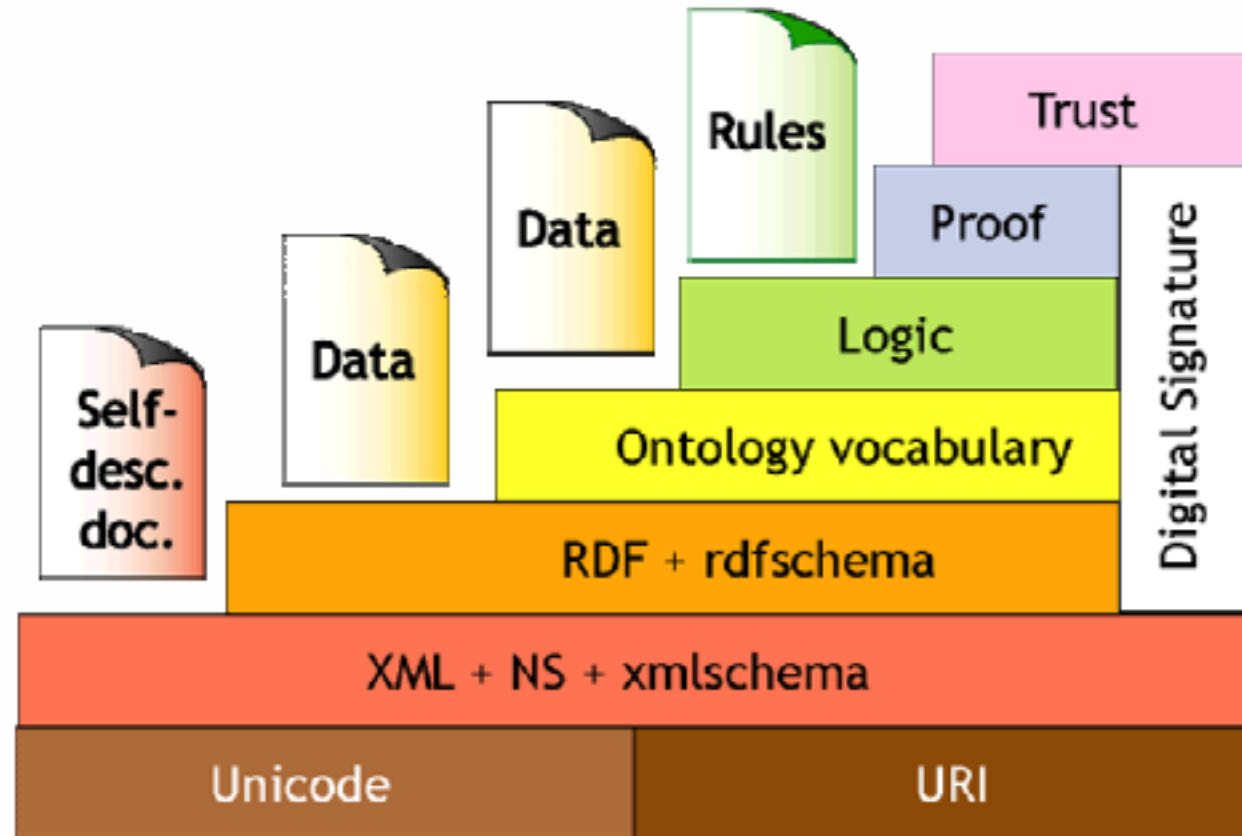


Grokker.com

Semantic Web

- The **Semantic Web** is an extension of the [World Wide Web](#) through standards by the [World Wide Web Consortium](#) (W3C).^[1] The standards promote common data formats and exchange protocols on the Web, most fundamentally the [Resource Description Framework](#) (RDF). According to the W3C, "The Semantic Web provides a common framework that allows data to be shared and reused across application, enterprise, and community boundaries".^[2] The Semantic Web is therefore regarded as an integrator across different content, information applications and systems.

Semantic Web



- The Resource Description Framework (**RDF**) is a family of World Wide Web Consortium (W3C) specifications originally designed as a metadata data model.

Past & Future of the Web

- Past
 - Broadcast of read-only materials
 - Exchange information for human consumption
- Future
 - More interactions
 - Machine-readable information
 - Mobile Web

The Future of the Web

- Mobile Web
 - enables users to access the Web from their mobile devices such as cell phones and PDAs (Personal Digital Assistants)
- Service-Oriented Web
 - makes various services accessible via the Web using the standard Web Services protocols
- Semantic Web
 - makes machine understandable (processable) information available on the Web

Client-side Information Presentation

- Introduction to Internet
- HTTP (Hypertext Transfer Protocol)
- HTML (Hypertext Markup Language)
- CSS (Cascading Style Sheets)
-