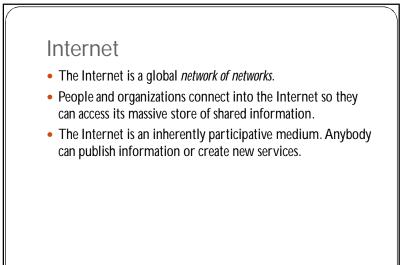
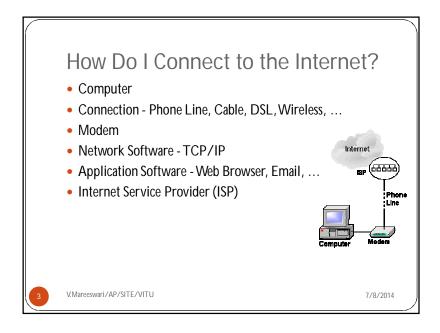
# ITE 309 Web Technologies Unit I V.Mareeswari Assistant Professor School of Information Technology & Engineering VIT University, Vellore





## Web

V.Mareeswari/AP/SITE/VITU

- The Web was invented in 1991 by Tim Berners-Lee.
- The Web is a distributed information system.
- The Web contains multimedia.
- Information in the Web is connected by hyperlinks.



V.Mareeswari/AP/SITE/VITU

7/8/2014

7/8/2014

## Internet Backbone

- The **Internet backbone** may be defined by the <u>principal data</u> <u>routes</u> between large, strategically interconnected <u>computer</u> <u>networks</u> and <u>core routers</u> on the <u>Internet</u>. These data routes are hosted by commercial, government, academic and other high-capacity network centers, the <u>Internet exchange points</u> and <u>network access points</u>, that interchange Internet traffic between the countries, continents and across the oceans.
- The first Internet backbone was named NSFNET. It was funded by the U.S. government and introduced by the National Science Foundation (NSF) in 1987.
- As of 2013 there are only seven tier 1 providers in the telecommunications industry. Current Tier 1 carriers include Level 3 Communications, TeliaSonera International Carrier, CenturyLink, Vodafone, Verizon, Sprint, and AT&T Corporation.

5

V.Mareeswari/AP/SITE/VITU

7/8/2014

# **Markup Languages**

 The Internet uses markup to define how Web pages should look when displayed in a browser or to define the data contained within a Web document.

### History

- In the early 1970s
  - GML (the Generalized Markup Language)
- Since the 1980s
  - SGML (the Standard GML)
  - HTML
- Currently
  - XML
    - · Not intended to replace HTML!
    - XHTML does by providing better data description, ...



V.Mareeswari/AP/SITE/VITU

7/8/2014

Language	Creator	First public release date	Editor	<u>Viewer</u>
Script	<u>IBM</u>	1968		GDDM, AFP viewer
troff (typesetter runoff), groff (GNU runoff)	Joe Ossanna	1973	Text editor	groffer, or output to PostScript
<u>TeX</u>	Donald Knuth	1978		DVI or Portable Document Form
Maker Interchange Format (MIF)	Frame Technology acquired by Adobe Systems in 1995	1986	Text editor, FrameMaker	FrameMaker
<u>Texinfo</u>	Richard Stallman	1986	Text editor	output to DVI, Portable Docume Format (PDF), HTML, DocBoo others.
Rich Text Format (RTF)	Microsoft	1987	Text editor, Word processor	Word processor
Text Encoding Initiative (TEI)	Text Encoding Initiative Consortium	1990	Text/XML editor	Web Browser (using XHTML) PDF, Word Processor (using OE or EPUB
<u>DocBook</u>	The Davenport Group, OASIS	1992	XML editor	Output to HTML, PDF, CHM javadoc, others.
HyperText Markup Language (HTML)	Tim Berners-Lee	1993	Text editor, HTML editor	Web browser
<u>LilvPond</u>	Han-Wen Nienhuys, Jan Nieuwenhuizen	1996	Text editor, Scorewriter	Output to DVI, PDF, PostScrip PNG, others.
7 V.Mareeswari	7/8/2014			

Lan.guage	Creator	First public release date	Editor	<u>Viewer</u>	
ncoded Archival Description	Berkeley Project	1998	Text editor	Web browser	
lath Markup Language <u>   </u>	<u>W3C</u>	1999 (July)	Text/XML editor, TeX converter	Web browser, Word processor	
ireless Markup Language VML)	WAP Forum	1999	Text/XML editor	Microbrowser	
pen Mathematical Documents DMDoc)	Michael Kohlhase	2000	Text/XML editor[1]	Output to XHTML+MathML,  TeX, others.	
stensible HyperText Markup anguage (XHTML)	<u>W3C</u>	2000	Text/XML editor, HTML editor	Web browser	
fusic Extensible Markup anguage (MusicXML)	Recordare	2002	<u>Scorewriter</u>	<u>Scorewriter</u>	
rg-mode	Org-mode project	2003	Emacs, text editor	Emacs. Output to HTML, PDF, DocBook, FreeMind, OpenDocument Format (ODF), others.	
<u>StructuredText</u>	David_Goodger	2001[2]	Text editor	Output to HTML, LaTeX, PDF, Unix man pages, ODT, S5 (HTML Slide Shows), XML, others.	
larkdown	John Gruber and Aaron Swartz	2004	Text editor, E-mail client	Web browser (XHTML or HTML output), preview in gedit- markdown-plugin	
extile	Dean Allen	2004	Text editor	Web browser (HTML), brief overview, online tester	
8 V.Mareeswari/AP/SITE/VITU 7/8/2014					

Language	Creator	First public release date	Editor	<u>Viewer</u>	
Scalable Vector Graphics (SVG)	<u>W3C</u>	2004	Vector graphics editor	Web browser, etc.	
Darwin Information Typing Architecture (DITA)	IBM, <u>OASIS</u>	2005	Text/XML editor	Output to HTML, PDF, CHM, javadoc, others.	
OpenDocument Format (ODF)	OASIS, ISO/IEC	2005	Office suite	Office suite	
Office Open XML (OOXML)	Ecma International,  ISO/IEC	2006	Office suite	Office suite	
Computable Document Format	Wolfram Research	2010	<u>Mathematica</u>	CDF Player	
9 V.Mareeswari/AP/SITE/VITU 7/8/2014					

# Web 2.0

- One way to look at Web 1.0 (1990s and early 2000s) is as a *lecture, a small number of professors* informing a large audience of students. In comparison, Web 2.0 is a *conversation, with* everyone having the opportunity to speak and share views.
- Web 2.0 embraces an **architecture of participation**—a design that encourages user interaction and community contributions.
- For websites like MySpace, Facebook, Flickr, YouTube, eBay and Wikipedia, users create the content, while the companies provide the platforms. These companies trust their users—without such trust, users cannot make significant contributions to the sites.



V.Mareeswari/AP/SITE/VITU

7/8/2014