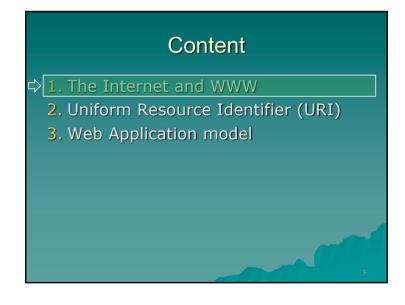
Chapter 1-1. Introduction to Web Programming



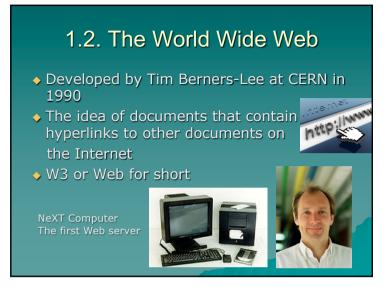


1.1. The Internet A network of networks Began in 1969 as ARPAnet (Advanced Research Projects Agency) No central authority and thus impossible to state the precise size

1.1. The Internet (2)

 Free access to central servers that allow machines and people to locate other machines by their Internet address.

-e.g. 100.99.88.32



1.2. The World Wide Web (2)



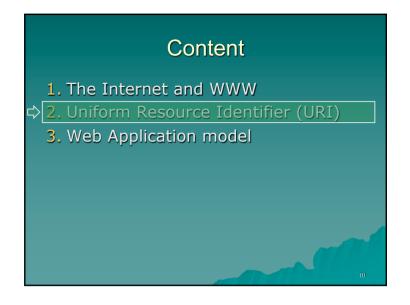
- ◆ World Wide Web
 - a system of interlinked hypertext documents accessed via the Internet
- → HyperText Markup Language (HTML)
 - document layout language for all Web Documents
- ◆ HyperText Transfer Protocol (HTTP)
 - allows any machine to load a document via a hyperlink from any other machine

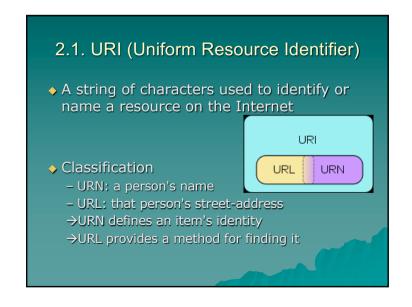
1.3. Web page or Webpage

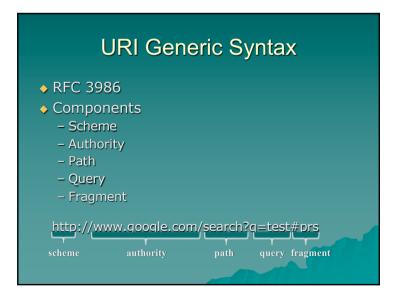
- a Web document
 - a document or resource of information that is suitable for the WWW and can be accessed through a web browser and displayed on a computer screen
- usually in HTML or XHTML format
 - XHTML (Extensible HTML): Intersection between HTML and XML
- requested and served from web servers using HTTP.











2.2. Uniform Resource Locator (URL)

- created in 1990 by Tim Berners-Lee as part of the URI
- specifies where an identified resource is available and the mechanism for retrieving it
- separated by dots, and the file path, separated by slashes, as a coherent hierarchical path

2.2. Uniform Resource Locator (2)

Syntax
resource_type://domain:port/filepathname?query_string#anchor
Example
http://www.annex.com/southwest/museum.htm
Document
Path (Directory or Folder)
Internet Address (Web site)

Means of access,
HyperText Transfer Protocol

2.3. Uniform Resource Name (URN)

- globally unique and persistent name of a resource on the Internet
- ◆ Syntax: <URN> ::= "urn:" <NID> ":" <NSS>
 - <NID> is the Namespace Identifier
 - <NSS> is the Namespace Specific String
- Example
 - urn:isbn:0451450523
 - The URN for "The Last Unicorn", identified by its book number.
 - urn:isan:0000-0000-9E59-0000-O-0000-0000-2
 - The URN for "Spider-Man (film)", identified by its audiovisual number
 - , 🍁 .

Content

- 1. The Internet and WWW
- 2. Uniform Resource Identifier (URI)
- 🖒 3. Web Application model

