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**CHAPTER
12**

WORLD WIDE WEB



CHAPTER 12 : WORLD WIDE WEB (THE HYPERTEXT CONCEPT)

WORLD WIDE WEB (Web)

- It is created in 1989 by **CERN** (European Organization for Nuclear Energy).
- Because of its great popularity, the web sometimes is mistakenly considered identical with the Internet.
- The Web is a huge **collection of interlinked hypertext documents**, called **webpages**, which are stored in specific computers called servers.
- Internet is a global network of computers linked together to interchange their data.
- Every Webpage and every resource in a webpage is characterized and identified by a unique address called **URL address** (Uniform Resource Locator).
- If the user knows the URL address of a webpage, he can access it with the help of appropriate software called a **web browser**.



http :// www . name . gr / filename

HTTP Protocol It is a set of rules that the web browser must obey to open a page.	World Wide Web It indicates that this address is referred to a webpage.	Domain Name It is usually the name of the owner of the web site (company or person)	Extension It declares the type or the area in which the webpage belongs.	The file opened e.g. image, video, music, text, pdf
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http://www.ypepth.gr/help.pdf
http://www.google.com
http://www.mit.edu
http://www.in.gr/auto
http://www.yahoo.com/music



Examples of extensions:

by Type: .com .net .edu .gov .mil
by Area: .gr .us .uk .de .it .gb .eu

- Every machine connected to the Internet is identified by a unique address called **IP address** (Internet Protocol Address).
- An IP address consists of **4 numbers** separated by dots (.)
- Each number can take values inside the range of **[0...255]** and its size is 1 byte (equals 8 bits).

Examples	
Right IP	Wrong IP
216.27.31.117	234.0.260.125
192.168.1.100	147.3.134.256

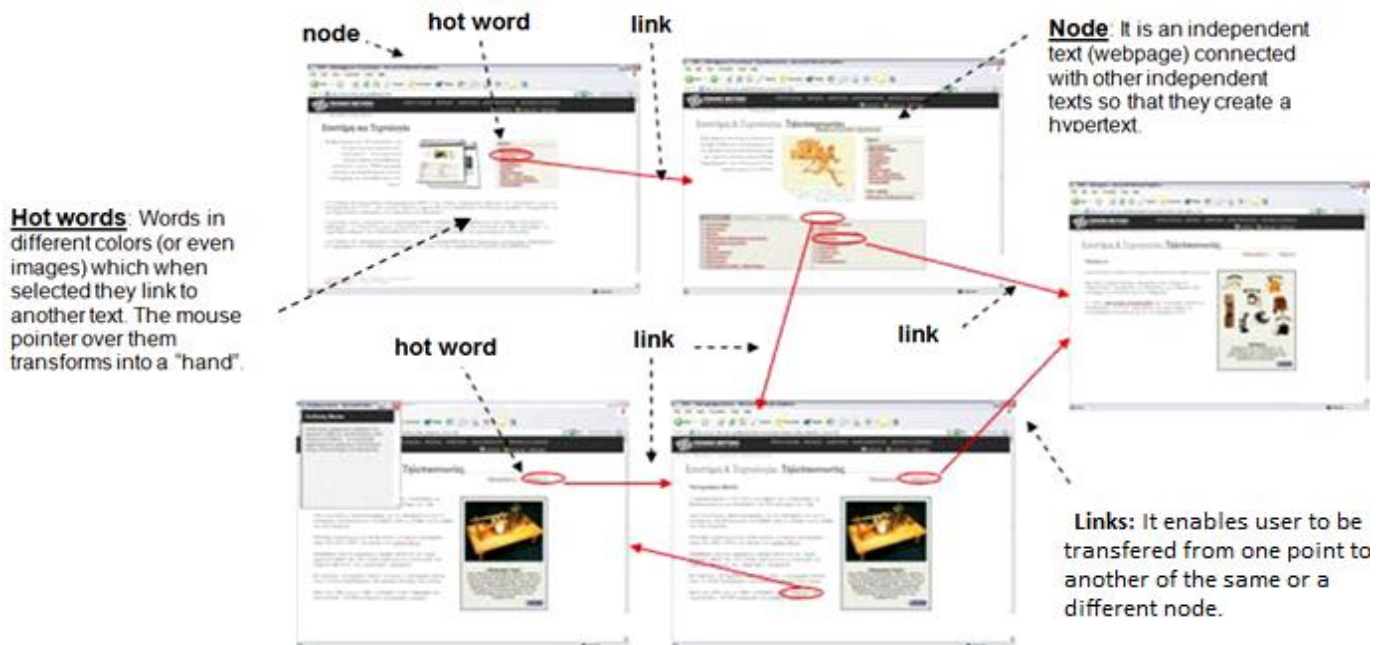
WEB BROWSER

- It is a **software application** designed to enable users to navigate in the Web as well as retrieve and present information resources by using the appropriate URL.
- Such resources may be a web page, an image file, a video file, or any other piece of content.
- Hyperlinks** presented in resources enable users easily to navigate between them.
- A web browser enables user to open a page containing hypertexts and hyperlinks made by specific programming languages, such as **HTML, PHP** etc.
- The most common browsers are: **Internet Explorer, Mozilla Firefox, Safari, Google Chrome, Opera, Netscape Navigator** etc.

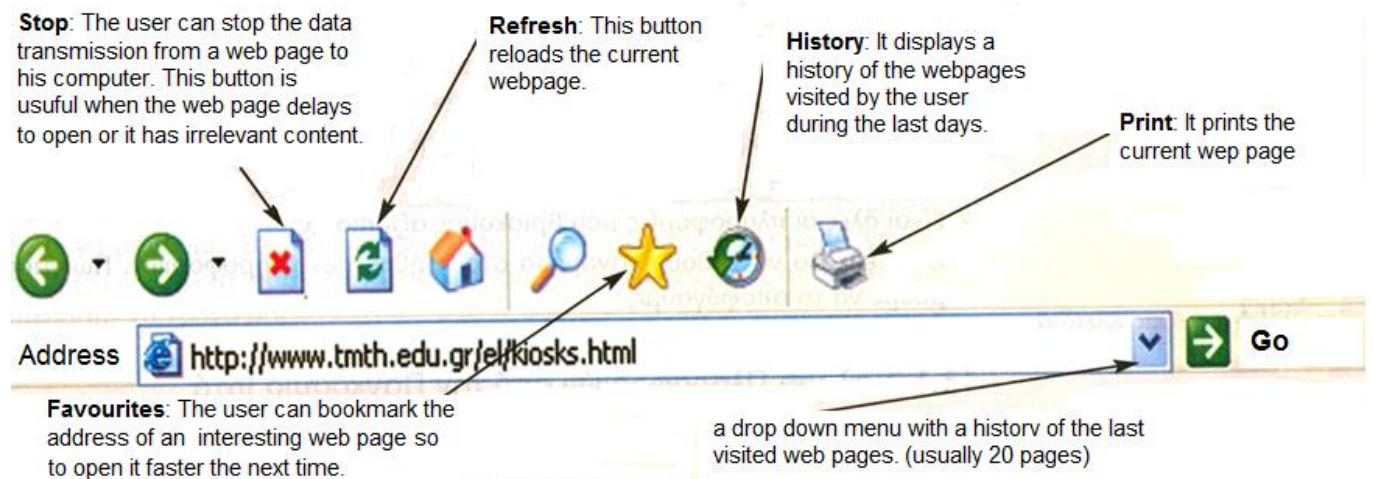


HYPertext

- It is a form of **active text** found basically on the web sites of the Internet.
- Hypertext consists of many individual texts independently linked, so that the user has the choice of different routes of reading and searching information.
- The way of navigation among hypertexts is **non linear** (that means “random” and is differentiated from the linear reading of a book).
- A hypertext includes **hot words, links** and **nodes**.



BASIC ICONS OF A WEB BROWSER



Back

Return to the previous page visited



Forward

Undo the last operation of Back button



Home

Return to the home page

