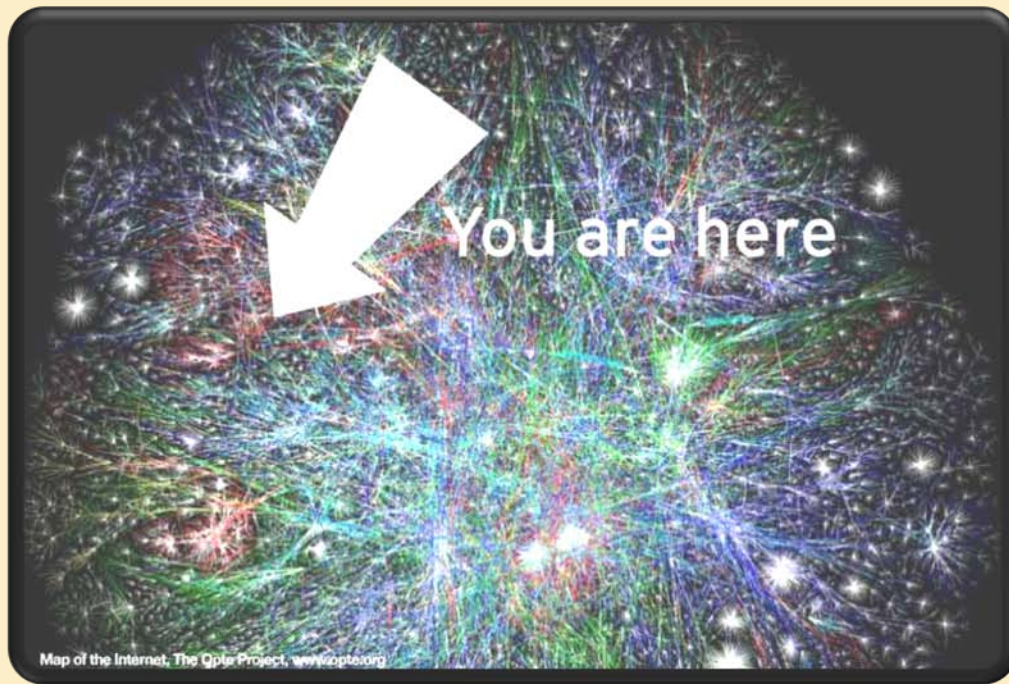


Welcome to the Net



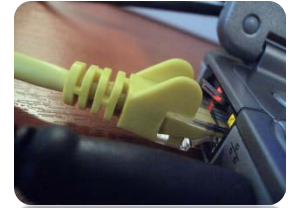
Map of the Internet, The Open Project, www.openproject.org

Unit Overview



- **The Internet**
- **The World Wide Web**
- **Networks – 3 Types**
- **Server Client Relationship**
- **Web & IP Addresses**
- **Web Browsers**
- **Web Pages Vs Web Sites**
- **Search Engines**
- **Search Criteria**

What is the internet?



- The **Internet** is a worldwide collection of networks that link millions of computers. It is the physical network that allows connected computers to share data, such as web pages, and devices such as printers.

What is the world wide web?



- It is **not** the internet!
- It is a service of the internet.
- It is a worldwide collection of web pages that are linked over the internet.
- Think of the World Wide web as the most common type of data that is send along the hardware of the internet.

Network?



- It is the combination of hardware and software that allow connected computers to share data or devices such as printers.
- A network needs a minimum of 2 or more connected computers that can communicate with each other

What are the 3 types of networks?

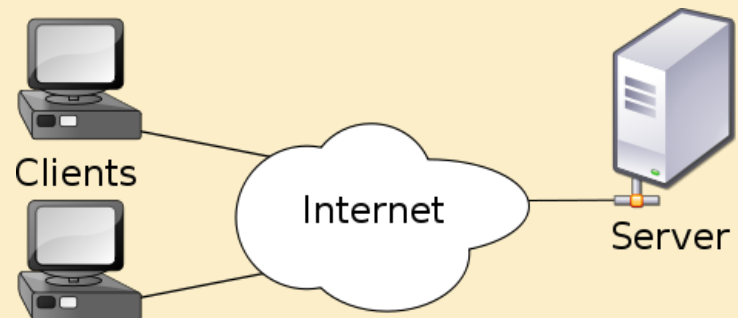


- **LAN – Local Area Network**
 - A network of connected computers and other devices at a single location. (A School)
- **MAN – Metropolitan Area Network**
 - It normally covers the area inside a town or a city. It is designed for customers who need high-speed connectivity, usually to the Internet
- **WAN – Wide Area Network**
 - A network of connected computers and other devices that are spread out over a large geographic location (The Internet)

Servers and Clients



- **Most networks are made up of two types of computers that communicate with each other.**
 1. **Servers**
 - ✦ A powerful central computer. Responds to requests from individual computers (Clients).
 2. **Clients**
 - ✦ An individual computer on the network. It sends requests to the server. Requests are usually for access to a file or program.



IP Address



- Each individual computer on a network has an IP address.
- An IP Address looks like this - 164.124.101.2
- The IP address is like your house address.
- To find your computer's IP Address:
 - Start
 - Run
 - Type: "ipconfig"
 - Look for "IPv4 Address"

Web Addresses



- A web page has a unique address, called a URL or Web Address

`http://www.pizza.com/about.html`



1. The rules that control how the web server and the browser communicate
2. Name of a server listening to messages using the http
3. is the domain name where the web server is located. The `.com` part is referred to as the top level domain
4. the name of HTML file requested

Domains



- **.com – commercial**
- **.gov – government**
- **.org – organization**
- **.edu – education**
- **.co – country**

Web browsers



- **What is a web Browser?**
 - A program that allows you to log onto the internet and view HTML files
- **What are the top 5 web browsers available?**
 - Internet explorer
 - Mozilla Firefox
 - Opera
 - Chrome
 - Safari

What is a web page?

- It is a document which **can** contain a combination of text, graphics, animations, audio, and video.

What is a web site?

- A **web site** is a collection of related web pages.

Some Help!



- Think of the internet as the library
- Think of a web site as a book in that library
- Think of a web page as a page in that book.

- They are all linked through [hyperlinks](#).
- [Hyperlinks](#) are what the **W**orld **W**ide **W**eb work.

What is a search engine?



- **Programs and sites on the World Wide Web that allow you to search other sites for information**

What search engines do you know?



- Google
- Bing
- Yahoo
- Altavista
- Ask
- Dogpile
- Daum
- Naver

Search Criteria



- The words that you type in the search box
- “” → exact words
 - ✦ “I love Pizza”
- + → include words
 - ✦ Pizza +Love
- - → exclude unwanted words
 - ✦ Pizza -hate

Search Criteria



- The words that you type in the search box
- **AND** → include words
 - ✦ Pizza AND Love
- **OR** → one word or both
 - ✦ Pizza OR Love
- **NOT** → exclude unwanted words
 - ✦ Pizza NOT hate