

TODAY'S AGENDA

- 1. House Keeping
- 2. Web
- 3. Internet
- 4. What happens when you "surf"?
- 5. What this course is all about



COURSE INFORMATION

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Office hours: Thursday: 12-13 or by appointment



COURSE WEB PAGE

- Available via portal (Moodle)
- Has:
 - o Course outline
 - o Office hours
 - o TA information
 - Tutorial exercises
 - o Slides
 - Assignment handouts
 - o Important dates
 - 0



THE TUTORIALS

Start week of September 10 (No tutorials this week)

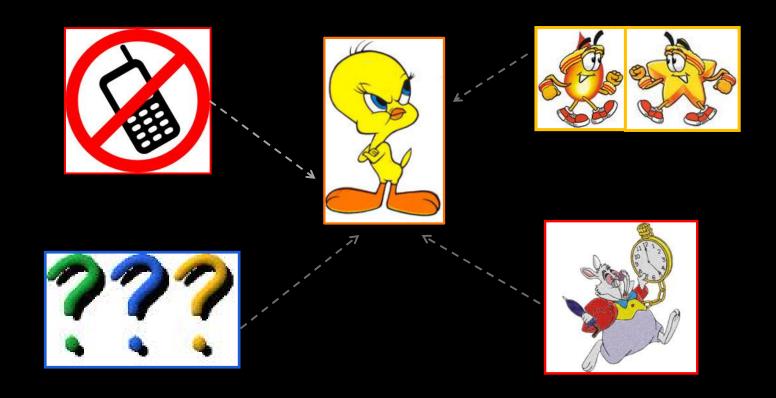


☐ TA: TBA

□ Purpose:

- Additional exercises and examples
- Get explanations and help on the assignments

ANNOYING CLASSROOM BEHAVIOR ...



TRUE OR FALSE?







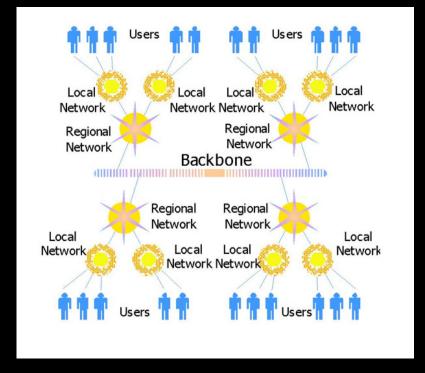


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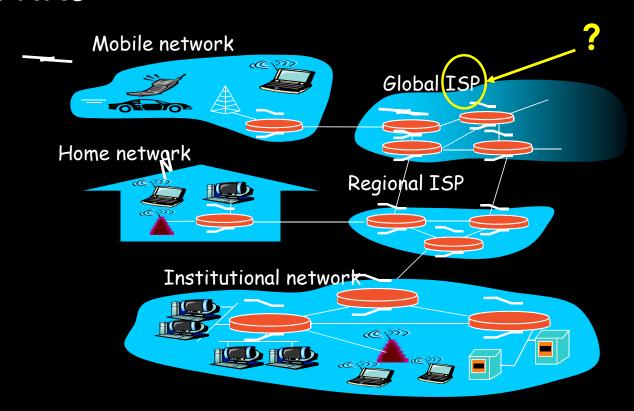
WHAT IS THE INTERNET?

 "The Internet is a global network connecting millions of computers. More than 100 countries are linked into exchanges of data, news and opinions."

http://www.webopedia.com/TERM/I/Internet.html



IN FACT THE INTERNET IS A NETWORK OF NETWORKS



WHO OWNS THE INTERNET?



- "No one actually owns the Internet, and no single person or organization controls the Internet in its entirety."
- "The Internet is more of a concept than an actual tangible entity, and it relies on a physical infrastructure that connects networks to other networks."

http://www.webopedia.com/TERM/I/Internet.html

WHAT IS THE WWW?

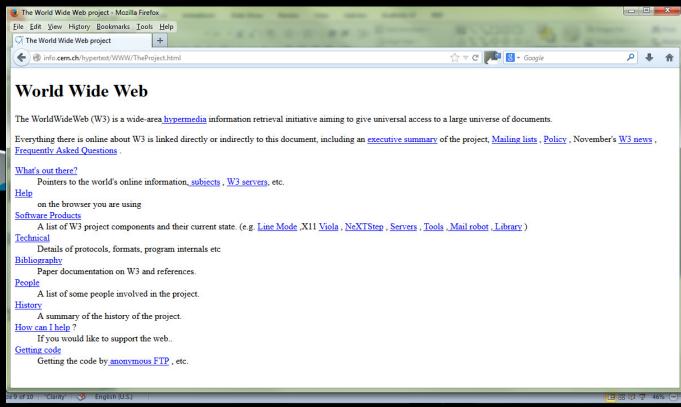


- WWW = World Wide Web, the Web or W3
- The **World Wide Web** is a system of interlinked <u>hypertext</u> documents accessed via the Internet.
- **Hypertext** documents can be either *static* (prepared and stored in advance) or *dynamic* (ever changing in response to user input).

SIR TIMOTHY BERNERS-LEE: CREATOR OF THE WORLD WIDE WEB IN 1991.



The first website using the line-mode browser simulator



HOW THE WEB BECAME FREE AND OPEN

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Declaration

The following CERN software is hereby put into the public domain:

- W 3 basic ("line-mode") client
- W 3 basic server
- W 3 library of common code.

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Geneva, 30 April 1993

W. Hoogland Director of Research

opie certifiée conforme

ait à Genève le 03-05-93

H. Weber
Director of Administration



http://info.cern.ch/hypertext/WWW/TheProject.html

WEB IS ...



- a way of accessing information over the medium of the Internet.
- an information-sharing model that is built on top of the Internet.
- just one of the ways that information can be disseminated over the Internet.

TRUE OR FALSE? FALSE





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So the Web is just a portion of the Internet, albeit a large portion, but the two terms are not synonymous and should not be confused.

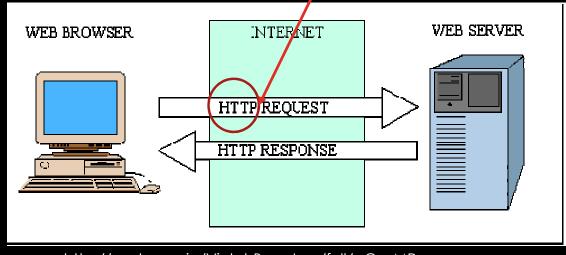
WEB....

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What is the link between these terms?

- Web page
- Web browser
- Web server

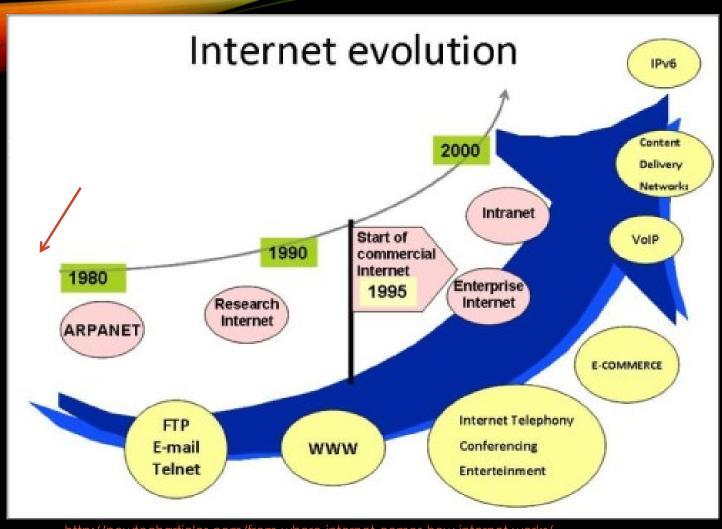


http://codepen.io/Violet-Bora-Lee/full/aOxvMR

HTTP: HYPERTEXT TRANSFER PROTOCOL



- The **Hypertext Transfer Protocol (HTTP)** is ...
- An application protocol for distributed, collaborative, hypermedia information systems.
- HTTP is the foundation of data communication for the World Wide Web.



DISCUSS

WHAT IS NEEDED FOR YOU TO SURF

THE MEBS



http://www.studentnewsdaily.com/editorial-cartoon-for-students/surfing-the-web/

WHAT IS NEEDED FOR YOU TO SURF THE WEB?

Designing web user actions

SOEN 287
Web Programming

Reaction to user's actions

stogramming

A BASIC HTTP TRANSACTION.



1 URL request http://music.uweb.edu/iommi.html (2) A copy of the HTML document is transferred into the browser's cache. (3) The browser starts parsing the HTML code and asks the Web server software to send the two image files. (The "kept alive" socket is still being used.) <html> <head> (4) The image files are transferred into the cache, completing the Web page. <title>lommi</title> </head> <body> Hello, I am Tony lommi and here is my signature guitar. Hello, I am Tony Iommi and

 here is my signature guitar. </body> </html> music music iommi.html Web Server Software images Browser tony.jpg Cache guitar.jpg Client Server

WHAT IS SOEN 287 ALL ABOUT?



Possible user actions

Web
Programming

Reaction to user's actions

