

<http://dev.w3.org/html5/spec/Overview.html>

Install Mozilla Firefox

- Add Firebug

Web Architecture

Physical Architecture/Networking

- Original Web
- Web Today
- BBSes
- Only One Person Could Get on a Web Page at a Time
- Routers
- IP Addresses
- Traceroute

File Structure

Representational State Transfer (REST) architecture

- Anarchic

URL

- MIME Types

HTML

- View Source
- Extensible
- DOM
- View as Tree

CSS

- Fonts, Style, Sizes
- Hexadecimal Colors
- RGB

w3schools.com

I. The Internet

a. World Wide Web

i. Files

1. URI, URL
2. Web is a collection of files pointing to each other
3. Web is a “series of tubes”
4. 100k servers to run Google

ii. “Anarchic Architecture” (“A”)

iii. First Map of the Internet

iv. Map of the Internet Today

- v. Client/Server
 - 1. We are clients
 - 2. Google, Yahoo, etc are servers
- vi. Browser is stateless (weather.com example)
 - 1. Static vs Dynamic Web Pages
 - 2. AJAX
- vii. Accessing a Wireless Router
- viii. tracert <http://www.fbi.gov>
- ix. Map a Traceroute
 - 1. <http://kharkoma.homelinux.com/gmaps/gmaptc.html>
- x. ping <http://www.yahoo.com>
- b. Safety
 - i. Debit Cards/Pay Pal
 - ii. Viruses
 - iii. Deception
 - 1. Whitehouse.com
 - iv. Online Persona
 - 1. Egosurfing.
 - 2. Watch what you say.
 - 3. Pic of Me Drunk
- c. Lab: Install AVG
- d. HTML/XHTML
 - i. View Source
 - ii. DOM
- e. Lab: Open a Wordpress.com Account
 - i. Links: HTML Choose Your Own Adventure: build a finite state machine with HTML as a choose your own adventure. Include a map.

Internet Turns 40

<http://news.nationalgeographic.com/news/2009/10/091029-internet-40th-anniversary.html>

Lab: Internet Scavenger Hunt

Obtain URI's for the following items:

Points Item

- Picture of Moon Landing in Public Domain

4 Picture of [species name] licensed Creative Commons

8 Picture of [species name] licensed Creative Commons direct link

- Copy of the book _____.

- PDF

10 Where is the International Space Station right now?

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Internet - Gopher