Drawing on the Web
CSCI-UA 380

HTML
HyperText Markup Language
HTML

HyperText Markup Language

A language for describing Web pages

HTML is not a programming language, it is a markup language

JavaScript is a programming language

A markup language is a set of markup tags

HTML uses markup tags to describe Web pages
HTML Tag
Opening/Closing

Keywords surrounded by angle brackets, for example: <html>

HTML tags normally come in pairs, like <h1> and </h1>

The first tag in a pair is the “start tag,”
the second tag is the “end tag”

Start and end tags are also called “opening” and “closing” tags
HTML Element

Everything from the start tag to the end tag

Example:

\[
\text{Start tag:} \\
<p> \\
\text{Element content:} \\
This is a paragraph. \\
\text{End tag:} \\
</p>
\]
Web Pages

HTML Documents

Web pages are plain text documents that contain HTML tags

HTML documents are Web pages

Recommended plain text editors:
Atom, Sublime Text, Notepad++
Web Browsers

Render HTML Documents

Reads HTML documents and displays them as Web pages.

Web browsers do not display HTML tags, but use them to interpret the content of the page.

This is where most of our drawing will happen.

Recommended browsers:
Chrome, Safari, Firefox.
This is where we will publish our projects during the semester.

A server is just a computer that is always on, ready to serve files when they are requested.

i6 is a secure, Unix-based Web server.

You will receive an email with your account information (if you don’t already have one).
i6 URL

i6.cims.nyu.edu/~netid
FTP
File Transfer Protocol

FTP, like HTTP, is a communications protocol of the Internet.

FTP allows us to transfer files between computers (i.e. laptop to Web server).

i6 requires a secure FTP connection, known as SFTP.

Recommended SFTP clients:
Fetch, Cyberduck, WinSCP, Transmit
File Permissions

Standard file permission:
644
Owner can read and write file; 
group can read file; 
others can read file

Standard directory permission:
755
Owner can read, write and execute file; 
group can read and execute file; 
others can read and execute file
HTML5

New standard for HTML

First version published in 2008
An official W3C recommendation as of October 2014

• Simpler doctype declaration
• New elements
• New attributes
• Full CSS3 support
• Video and audio elements
• 3D graphics support
• Web applications
Net Art
Examples

All HTML
2011, Evan Roth

http://all-html.net/
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