

CSCI-UA-4-005

Intro to Web Design + Computer Principles

Review Unix + Introduce HTML

Professor Emily Zhao M/W 12:30PM – 1:45PM



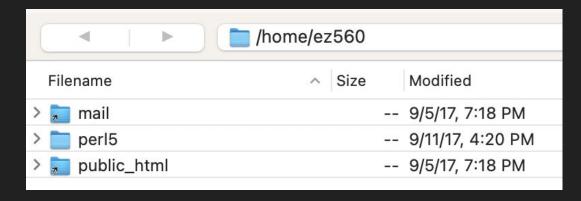
Agenda

- Review Unix/Assignment #1
 - i6 accounts
 - Accessing servers
 - Setting permissions
- Introduce HTML
- Assignment #1 Workshop

i6 Services

http://i6.cims.nyu.edu/~NETID

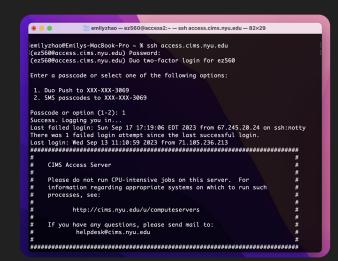
- i6.cims.nyu.edu is a server that provides a Linux environment for students to develop and host their websites
- Each account is granted a home directory and a web directory:



SSH (Secure Shell)

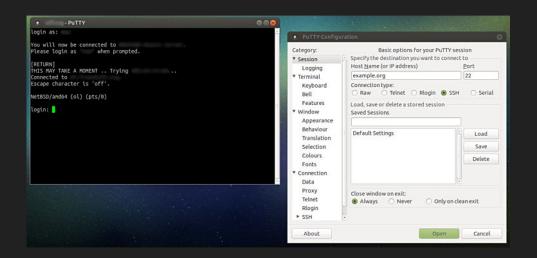
Allows users to securely log into remote systems and execute commands on those systems

Login, change password, change file permissions



puTTY

an open-source terminal emulator and SSH client for Windows



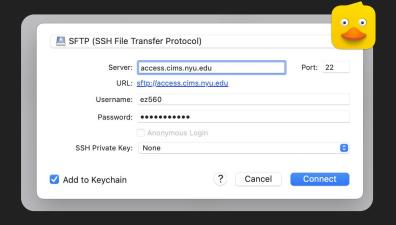
Common Unix Commands

% ls	list directory files
% pwd	show current directory
% cd % cd ~ % cd	change directory go to home directory go to parent directory
% touch	create, change, modify timestamp of file
% mkdir	create directory

SFTP (SSH File Transfer Protocol)

A file transfer protocol that operates over an SSH connection

- Used solely for transferring files between client and server
- File management capabilities such as uploading, downloading, renaming, and deleting files



chmod

Every file and directory has nine permissions associated with it

The Unix chmod command sets permissions of files and directories

Files and directories have three types of permissions (or none):

- r (read)
- w (write)
- x (execute)
- (no permission)

The above permissions occur for each of the following classes or users:

- u (user/owner)
- g (group)
- o (other/world)

Standard Web Permissions

Permissions U G W rwx rwx rwx rwx rwx r-x rwx r-x r-x rw- rw- r--

Unix Commands

- % chmod 777 filename
- % chmod 775 filename
- % chmod 755 filename
- % chmod 664 filename
- % chmod 644 filename

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 + execute file
- group can read and execute file
- others can read and execute file

Assignment #1

- Log into i6 account (ssh)
- 2. Change password (ssh)
- 3. Create HTML landing page (text editor)
- 4. Upload file to server (SFTP)
- 5. Change permissions of file/directory (ssh)

i6 server, Cyberduck, local computer

i6 Server

mail
per15
public_html
_ index.html

Think of them as <u>two **SEPARATE** computers</u>

Terminal/puTTY allows you to view and change file/folder permissions on the i6 server

Cyberduck (SFTP client) allows you to upload files to the i6 server.

If you want to update a file on the i6 server, you must edit it from Cyberduck or re-upload from your computer.

Your Computer

desktop documents web_design

- A1
 - index.html

HTML

```
<!DOCTYPE html>
<html>
 <head>
   <meta charset="utf-8">
   <title>Your name goes here</title>
 </head>
 <body>
   <h1>Introduction to Web Design</h1>
   Your self introduction goes here
   \langle u1 \rangle
    HTML
     CSS
     Raster Graphics
     Vector Graphics
     Page Layout
     Responsive Design
     JavaScript
     Final Project
   </body>
</html>
```







HTML

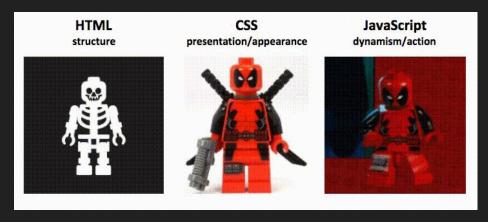
Add and orders elements on a webpage. Like the *skeleton* of a webpage.

CSS

Handles the styling of your website. For example, fonts, colors, sizing, etc.

JavaScript

Adds action and allows user interactions. For example, buttons and text input fields.



	HTML	CES	JS
Language	HTML	css	Javascript
Purpose	Structure, Objects, Things	Looks, Style	Actions
Syntax	<h1></h1>	P {color: red;}	var x = 5;
Grammar	nouns	adjectives	verbs
Building	Walls, structure	Paint, curtains	Electrical, Plumbing, AC

Hypertext Markup Language (HTML)

A language for describing Web pages

Hypertext: links that connect web pages to another

Markup Language: uses tags to define text structure and formatting

* not a programming language!

Hypertext Markup Language (HTML)

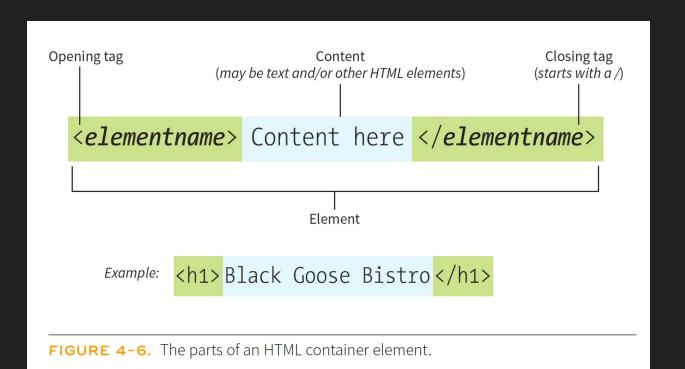
A language for describing Web pages

Hypertext: links that connect web pages to another

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HTML Element



```
<h1> Why Coding Your Own Website Rocks </h1>
 There are many reasons why coding your own website is better than using a website builder 

Low cost 
Rewarding 
Flexibility 

<h2> Low Cost </h2>
 It's much cheaper than Squarespace!
```

Why Coding Your Own Website Rocks

There are many reasons why coding your own website is better than using a website builder.

- Low Cost
- Rewarding
- Flexibility

Low Cost

It's much cheaper than Squarespace!

Common HTML tags

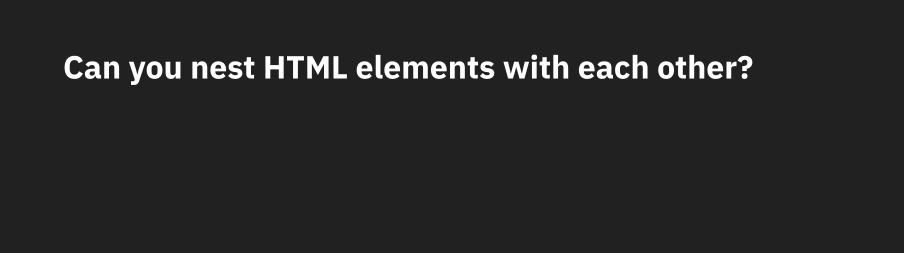
<h1> to <h6></h6></h1>	Headings that define the hierarchy of section titles
	Defines paragraphs of text
	A line break element to create new line
<hr/>	"Horizontal rule", used to insert a visual break in content
	Defines an unordered (bulleted list)
	List element
<blockquote></blockquote>	Defines a block of text that is a quotation
<pre> </pre>	

```
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 </head>
 <body>
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    Responsive Design
    JavaScript
    Final Project
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</html>
```

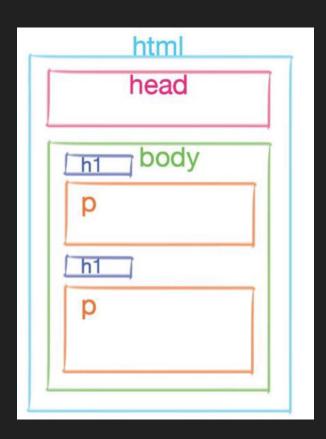
Common HTML tags

	Declares the document type
<html> </html>	Container for all other HTML elements (except)
<head> </head>	Contains metadata about the document, such as page title and links to stylesheets or scripts
<title> </title>	Sets the title of web page, which is displayed in browser's title bar or tab
<meta/>	Contains metadata information about the document, including character encoding and viewport settings

HTML Boilerplate



Yes, you can!



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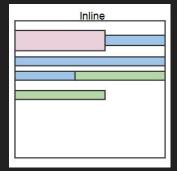
Block Element

- Starts on a new line
- Takes up the full width available (stretches out to the left and right as far as it can).
- Examples: <h1>, , <u1>, <blockquote>

Block

Inline element

- Doesn't create line breaks
- Occupies only necessary width
- Examples: <a>, , , ,



Workshop

Today's Attendance (via PollEverywhere)

pollev.com/emilyzhao

→ Did you finish Assignment 1 yet?



For next time

- Complete Ed Lesson: HTML Basics
- Assignment #1
- Chapter 6: Adding Links
- Chapter 7: Adding Images