



CSCI-UA-4-005

Intro to Web Design + Computer Principles

Review Unix + Introduce HTML

Professor Emily Zhao



Agenda

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

HTML

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



HTML

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



CSS

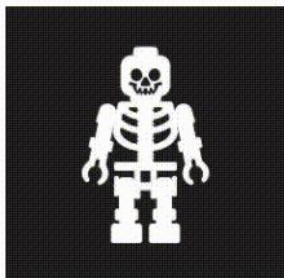
Handles the styling of your website. For example, fonts, colors, sizing, etc.



JavaScript

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

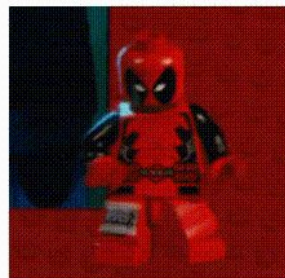
HTML
structure



CSS
presentation/appearance



JavaScript
dynamism/action





Language

HTML

CSS

Javascript

Purpose

Structure, Objects, Things

Looks, Style

Actions

Syntax

`<p> <h1>
`

`P {color: red;}`

`var x = 5;`

Grammar

nouns

adjectives

verbs

Building

Walls, structure

Paint, curtains

Electrical, Plumbing, AC

Hypertext Markup Language (HTML)

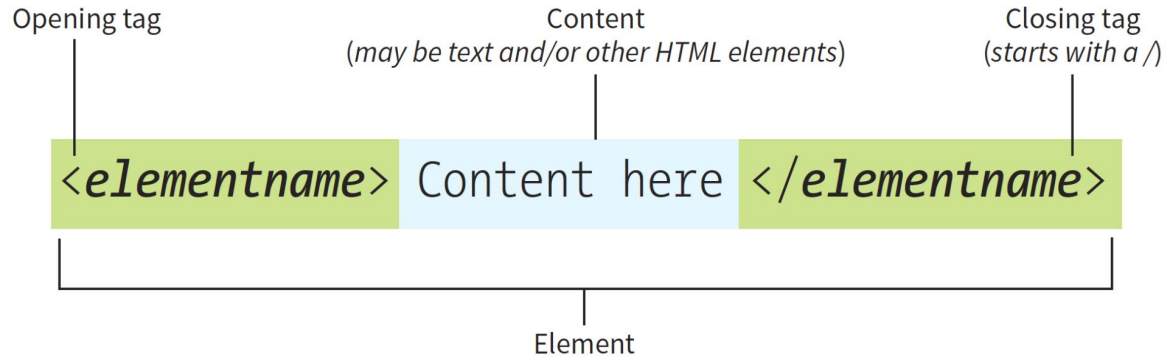
A language for describing Web pages

Hypertext: links that connect web pages to another

Markup Language: uses tags to define text structure and formatting

** not a programming language!*

HTML Element



Example: `<h1>` Black Goose Bistro `</h1>`

FIGURE 4-6. The parts of an HTML container element.

Content + Formatting HTML Tags

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

<h1> Why Coding Your Own Website Rocks </h1>

<p> There are many reasons why coding your own website is better than using a website builder </p>

 Low cost

 Rewarding

 Flexibility

<h2> Low Cost </h2>

<p> It's much cheaper than Squarespace!</p>

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!

Structural + Metadata HTML tags

<code><!DOCTYPE></code>	Declares the document type
<code><html> ... </html></code>	Container for all other HTML elements (except <code><!DOCTYPE></code>)
<code><head> ... </head></code>	Contains metadata about the document, such as page title and links to stylesheets or scripts
<code><title> ... </title></code>	Sets the title of web page, which is displayed in browser's title bar or tab
<code><meta> ... </meta></code>	Contains metadata information about the document, including character encoding and viewport settings
<code><body> ... </body></code>	Represents the main content of an HTML document and contains all the elements that are visible on the webpage

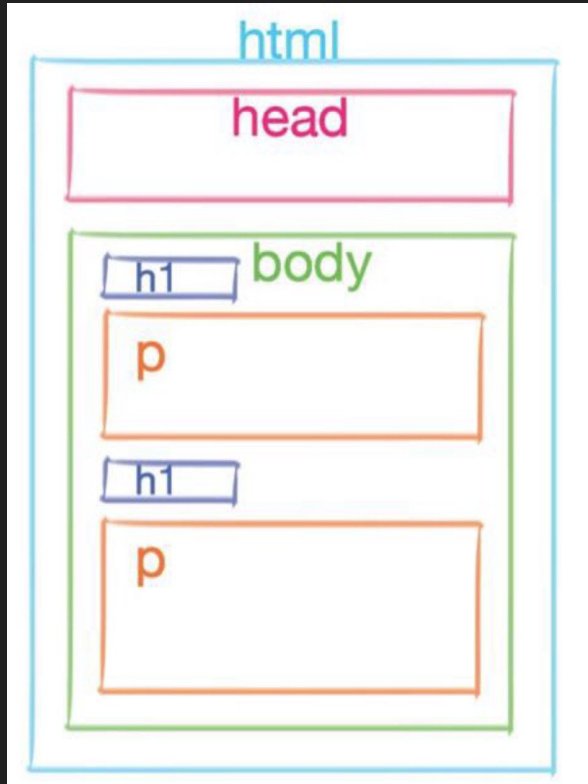
HTML Boilerplate

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="utf-8">
    <title>HTML 5 Boilerplate</title>
  </head>
  <body>
  </body>
</html>
```

```
<!DOCTYPE html>
<html>
  <head>
    <meta charset="utf-8">
    <title>Your name goes here</title>
  </head>
  <body>
    <h1>Introduction to Web Design</h1>
    <p>Your self introduction goes here</p>
    <ul>
      <li>HTML</li>
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      <li>JavaScript</li>
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    </ul>
  </body>
</html>
```

Can you nest HTML elements with each other?

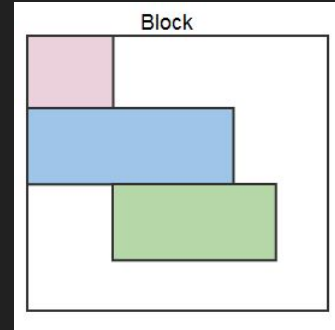
Yes, you can!



```
<!DOCTYPE html>
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  <head>
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    <title>Your name goes here</title>
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  <body>
    <h1>Introduction to Web Design</h1>
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      <li>JavaScript</li>
      <li>Final Project</li>
    </ul>
  </body>
</html>
```

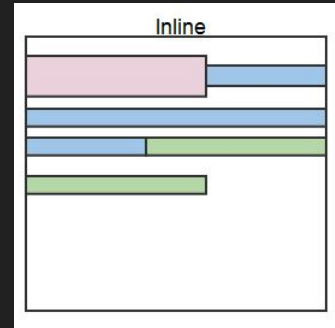
Block Element

- 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>`, `<p>`, ``, ``, `<blockquote>`, `<div>`









Inline element

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



Rules for nesting

- Block elements can contain
 -  Other block-level elements
 -  Inline elements
- Inline elements can contain
 -  Other inline elements
 -  Block-level element
-  Self-closing elements (i.e. `
`, ``) can't contain other elements
-  Special rules: `<u1>` should only contain `` elements

Assignment #1

Assignment #1

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

```
mail  
perl5  
public_html  
- index.html
```

Think of them as two **SEPARATE** computers

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
```

Workshop

Today's Attendance (via PollEverywhere)

pollev.com/emilyzhao

→ How far are you in A#1?



For next time

- Complete Ed Lesson: HTML Basics
- Assignment #1
- Chapter 5: Marking Up Text