



HTML

HYPER TEXT MARKUP LANGUAGE

CIM 111

patch. He pulls out a crowbar and pries open the hatch. Inside, surrounded by a nest of liquid cooling tubes, is a small black module -- the drone's auto-pilot.

Cooper looks down at Murph, who is standing at his elbow.

MURPH

What are you going to do with it?

COOPER

Reprogram it. Give it something socially responsible to do like drive a combine or a tractor.

MURPH

(quiet)

Couldn't we just let it go? It's not hurting anyone.

Cooper looks down at his son. Good kid.

COOPER

We need all the help we can get,

HTML

Versions

- No clear standards existed in the early years of the language
 - Semantic language devoid of presentation details
 - Browser vendors pushed many presentational elements and attributes into the language
 - CSS was created to overcome the fragmentation
-

HTML Editors

- HTML describes the structure of Web pages using markup
 - An HTML editor is simply a text editor: NOTEPAD / TEXT EDIT
 - Brackets is an advanced text editor which provides visual tools to make (html) coding easier.
-

```
<!DOCTYPE html>
<html>
<head>
  <title>About France</title>
</head>
<body>

<div class="cities">
<h2>London</h2>
<p>London is the capital of England. It is the most populous city in the United Kingdom, with a metropolitan area of over 13 million inhabitants.</p>
</div>

<div class="cities">
<h2>Paris</h2>
<p>Paris is the capital and most populous city of France.</p>
</div>

<div class="cities">
<h2>Tokyo</h2>
<p>Tokyo is the capital of Japan, the center of the Greater Tokyo Area, and the most populous metropolitan area in the world.</p>
</div>

</body>
</html>
```

Working Files

• index.html

hw ▾

index.html

```
1  <!DOCTYPE html>
2  ▼ <html>
3  ▼ <head>
4      <title>About France</title>
5  </head>
6  ▼ <body>
7
8  ▼ <div class="cities">
9      <h2>London</h2>
10     <p>London is the capital of England. It is the most populous city in the United Kingdom, with a
        metropolitan area of over 13 million inhabitants.</p>
11 </div>
12
13 ▼ <div class="cities">
14     <h2>Paris</h2>
15     <p>Paris is the capital and most populous city of France.</p>
16 </div>
17
18 ▼ <div class="cities">
19     <h2>Tokyo</h2>
20     <p>Tokyo is the capital of Japan, the center of the Greater Tokyo Area,
21     and the most populous metropolitan area in the world.</p>
22 </div>
23
24 </body>
25 </html>
```

Line 23, Column 1 — 25 Lines

INS

HTML ▾



Spaces: 4

HTML

Versions - Who Decides?

- HTML5 is specified by the HTML Working Group of the [W3C](#) following the W3C process
- W3C The World Wide Web Consortium (W3C) is an international community where [Member organizations](#), a full-time [staff](#), and the public work together to develop Web standards. Led by Web inventor [Tim Berners-Lee](#) and CEO [Jeffrey Jaffe](#), W3C's mission is to lead the Web to its full potential.

Tim Berners-Lee

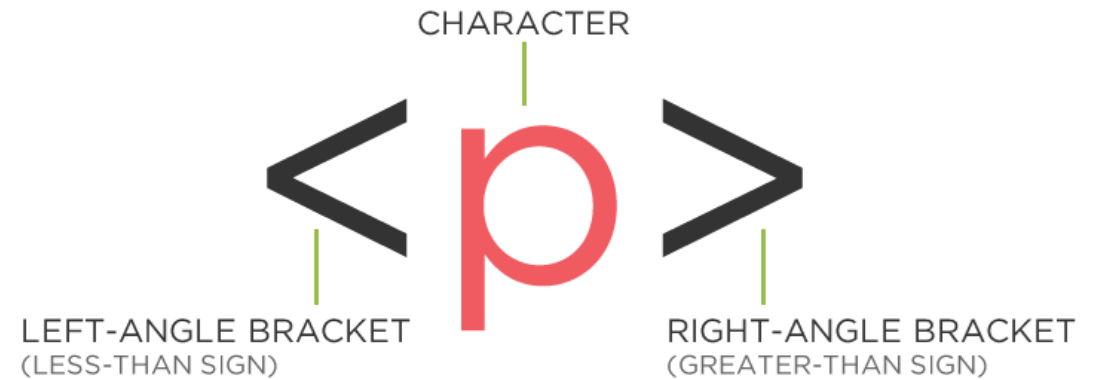
- The inventor of the [World Wide Web](#). He made a proposal for an information management system in March 1989
- He implemented the first successful communication between a [Hypertext Transfer Protocol](#) (HTTP) client and server via the Internet sometime around mid-November of that same year.

First Website

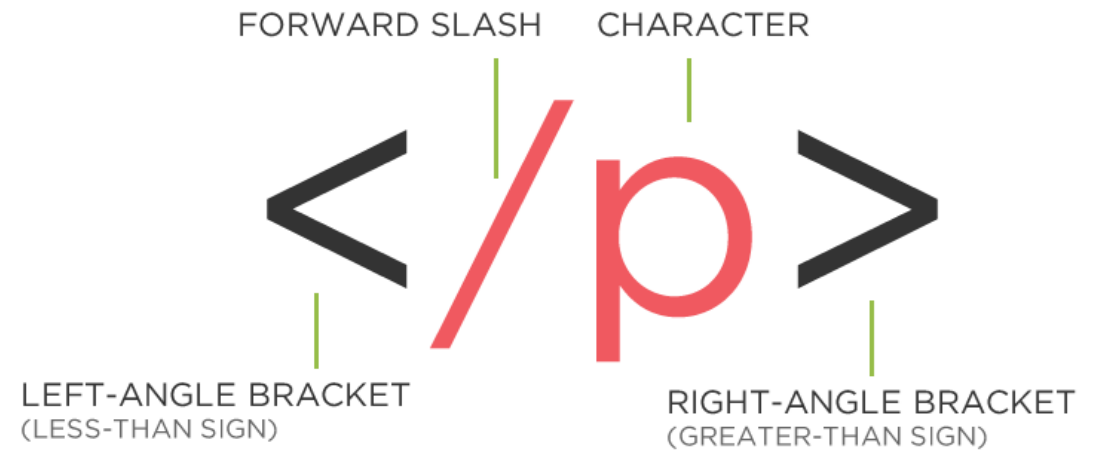
- The first website built was at **CERN** within the border of France,[30]and was first put online on 6 August 1991:
- <http://info.cern.ch/hypertext/WWW/TheProject.html>

Basic tag

OPENING TAG



CLOSING TAG



Basic Structure

```
<!DOCTYPE HTML>
```

```
<html>
```

```
  <head>
```

```
    <title>Title of the document</title>
```

```
  </head>
```

```
  <body>
```

```
    <p>The content of the  
    document.....</p>
```

```
  </body>
```

```
</html>
```



<!DOCTYPE HTML>

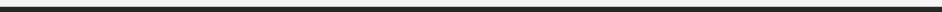
- The <!DOCTYPE> declaration must be the very first thing in your HTML document, before the <html> tag.
- Instructs the web browser what version of HTML the page is written in
- HTML5 there is only one <!DOCTYPE html>
- HTML4

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01//EN" "http://www.w3.org/TR/html4/strict.dtd">
```

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">
```

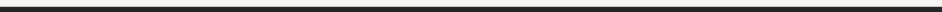
<html></html>

- The `<html>` tag tells the browser that this is an HTML document.
- These are the opening tags for your webpage
- All markup should be placed inside of these tags



```
<!DOCTYPE html>
```

```
<html></html>
```



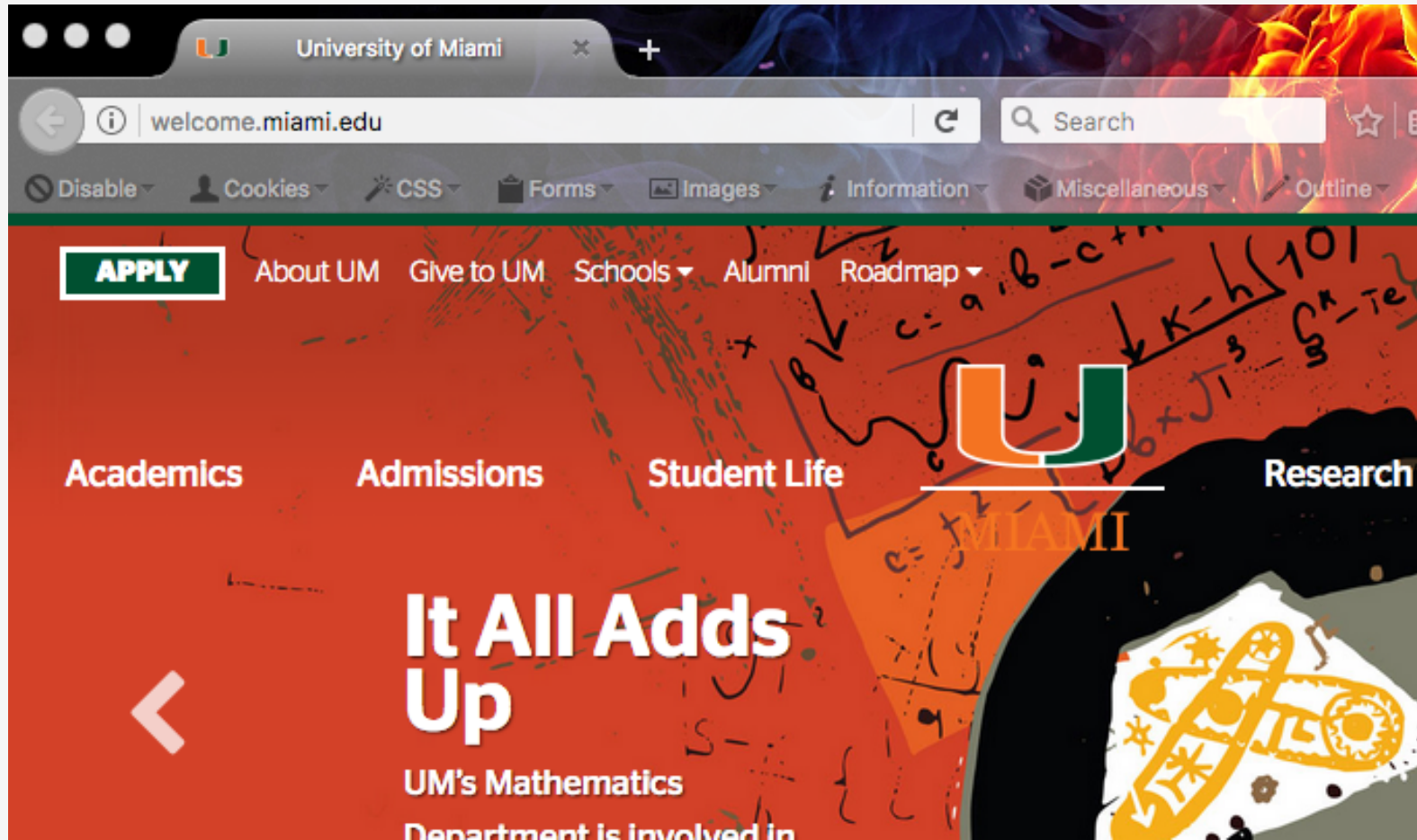
<head><head>

- The <head> element can include tags for css, javascript, keywords, here are some: <title>(this element is required in an HTML document), <style>, <base>, <link>, <meta>, <script>, <noscript>
 - The elements placed in the head tag are meant for browsers to preprocess before loading the rest of the document
-

```
<!DOCTYPE html>  
<html>  
  <head></head>  
</html>
```

```
<!DOCTYPE html>
<html>
  <head>
    <title>
      University of Miami
    </title>
  </head>
</html>
```





<body></body>

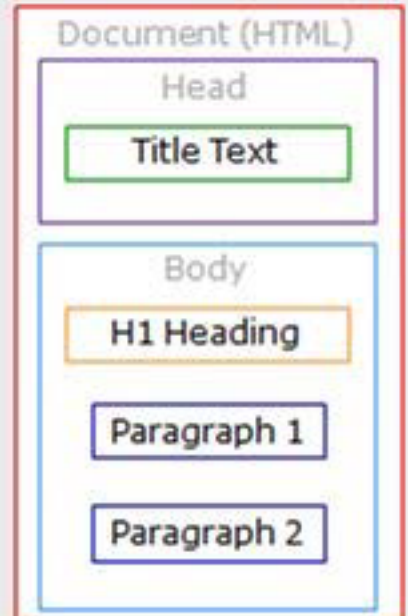
- The <body> tag defines the document's body.
- The <body> element contains all the contents of an HTML document, such as text, hyperlinks, images, tables, lists, etc.



```
<!DOCTYPE html>
<html>
  <head>
    <title>
      University of Miami
    </title>
  </head>
  <body><!-- All content --><body>
</html>
```

HTML Structure

```
<HTML>  
  
<HEAD>  
  <TITLE>Title Text</TITLE>  
</HEAD>  
  
<BODY>  
  <H1>H1 Heading</H1>  
  <P>Paragraph 1</P>  
  <P>Paragraph 2</P>  
</BODY>  
  
</HTML>
```



Links

Absolute

```
<a href="http://mypage.com/destinations/miami.html" target="_blank">Miami</a>
```

Absolute links include protocol "http://" and server "mypage.com"

Relative

```
<a href="miami.html" target="_blank">Miami</a>
```

```
<a href="/destinations/miami.html" target="_blank">Miami</a>
```

Relative links only include the folder path and the filename. The browser will direct to a page called miami.html in the current server

```

```

```

```



WWW



HTML a.html



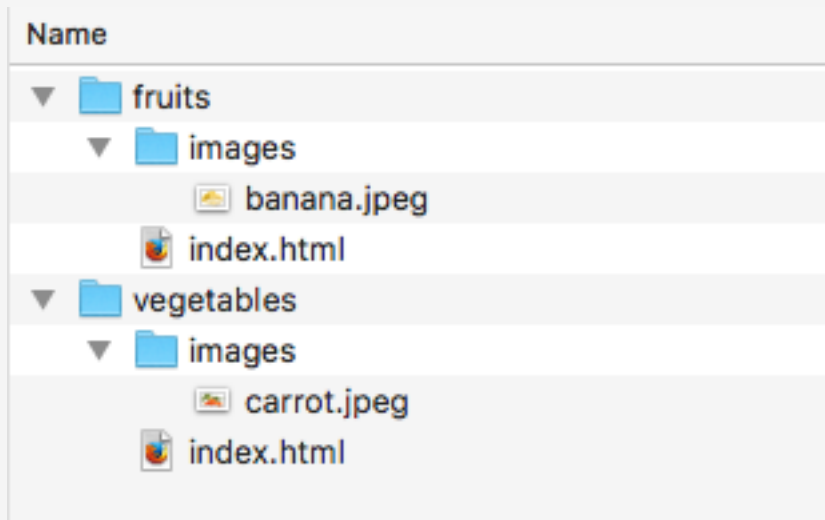
XXX



HTML b.html

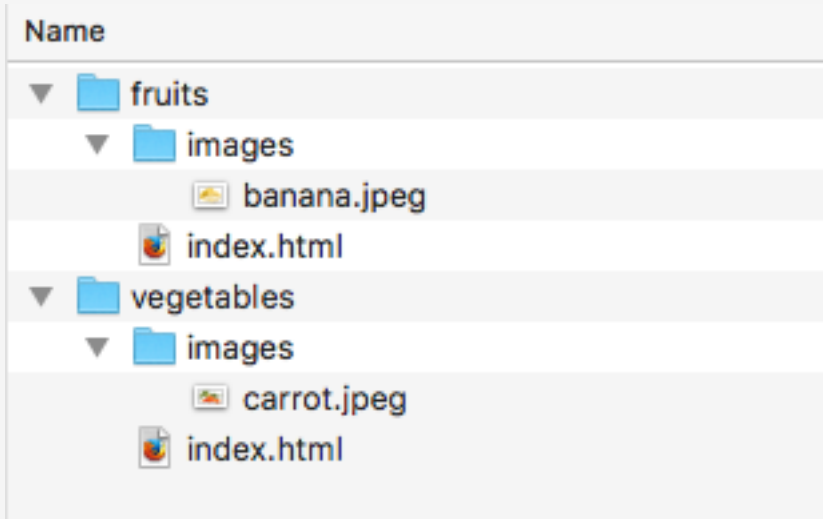


HTML c.html



A link from index in the fruits folder to the index of vegetable:

- `Vegetables`
- OR
- `Vegetables`



An image in fruits directory to fruits index:

- ``

An image in fruits directory to vegetables index:

- ``
- ``