What is the difference between the web and the internet?

http://www.sjsu.edu/

http://130.65.255.101/

How does web work?

Client ⇄ **Server**

Web browsers

Path

http://www.sjsu.edu/art

Protocol

Host/domain name

Path to file

http://www.sjsu.edu/art/Undercurrents.pdf
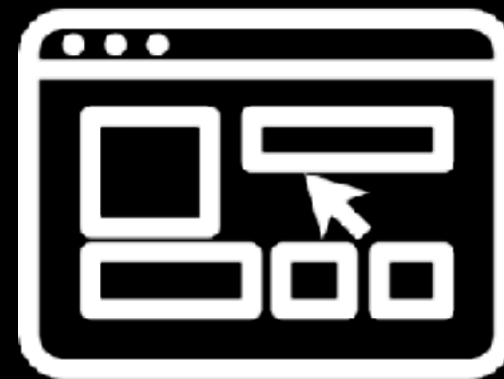
HTML
(Hyper Text Markup Language)

H: Head
T: Torso
M: Midsection
L: Legs

CSS
(Cascading Style Sheets)

C: Color
S: Size
S: Style

JS
(JavaScript)

J: Jump
S: Smile

lists the parts

HTML

JS

CSS

describes appearance

describes functions of the parts

What is the importance of having your own website?

http://threejsplaygnd.brangerbriz.net/

1. Copy code from three js playground editor

2. Paste code into Sublime and save file as sketch.html

HTML

Within root directory: desktop/portfolio

index.html
sketch.html
/images
/css
/js

Basic Page Structure

```html
<!doctype html>
<html>
    <head></head>
    <body></body>
</html>
```

```html
<!doctype html>
  <html>
      <head>
          <style>css/style.css</style>
      </head>
      <body>
          <h1>Hello world!</h1>
          <p>My first website</p>
      </body>
  </html>
```

```html
<p>Hello world!</p>

<img src="icon.png">
```

Heading: <h1> to <h6>

Break line in text:

Bold words in text <b> or <strong>

Italic words in text <i> or <em>

Links
link text

Internally
- **Local links:** Sketch
- **Bookmark** (same page): Go to main
- **Bookmark** (another page):

Externally

The Target Attribute
target="_blank"
target="_self" (this is default)

Image as Link
```
<a href="index.html">
    <img src="icon.png">
</a>
```

Attribute Syntax: name="value"

Hello world!

Attribute   Attribute

Image src attribute specifies the URL:
`<img src="images/icon.png">`

Image alt attribute provides
an alternate text:
`<img src="images/icon.png" alt="Instagram Icon">`

Iframe tag
`<iframe src="https://sjsu.edu/art"></iframe>`
(for embedding another document within the our HTML document)

Div: defines a division or a section in the page

```
<div>
    <h1>This is a heading</h1>
    <p>This is a paragraph.</p>
</div>
```

Lists

```
<ul>
    <li>coffee</li>
    <li>cream</li>
    <li>sugar</li>
</ul>
```

(listed with bullet points)

```
<ol>
    <li>coffee</li>
    <li>cream</li>
    <li>sugar</li>
</ol>
```

(listed with numbers)

ID Attribute: specifies a unique id for an HTML element
<div id="main"></div>

Class Attribute: specifies one or more classnames
                     for an element.

<div class="container"></div>
<img src="images/icon.png" class="container">

HTML Commenting

`<!-- Write your comments here -->`

```
 1  <!DOCTYPE html>
 2  <html>
 3  <body>
 4
 5  <!-- This is a comment -->
 6  <p>This is a paragraph.</p>
 7  <!-- Comments are not displayed in the browser -->
 8
 9  </body>
10  </html>
```

CSS
(a language that describes the style of an HTML document.)

```css
 1 body {
 2     background-color: lightblue;
 3 }
 4
 5 h1 {
 6     color: white;
 7     text-align: center;
 8 }
 9
10 p {
11     font-family: verdana;
12     font-size: 20px;
13 }
```

Ways to insert CSS

- Internal style sheet
- External style sheet
- Inline styling

External:
```
<head>
    <link href="mystyle.css">
</head>
```

Internal:
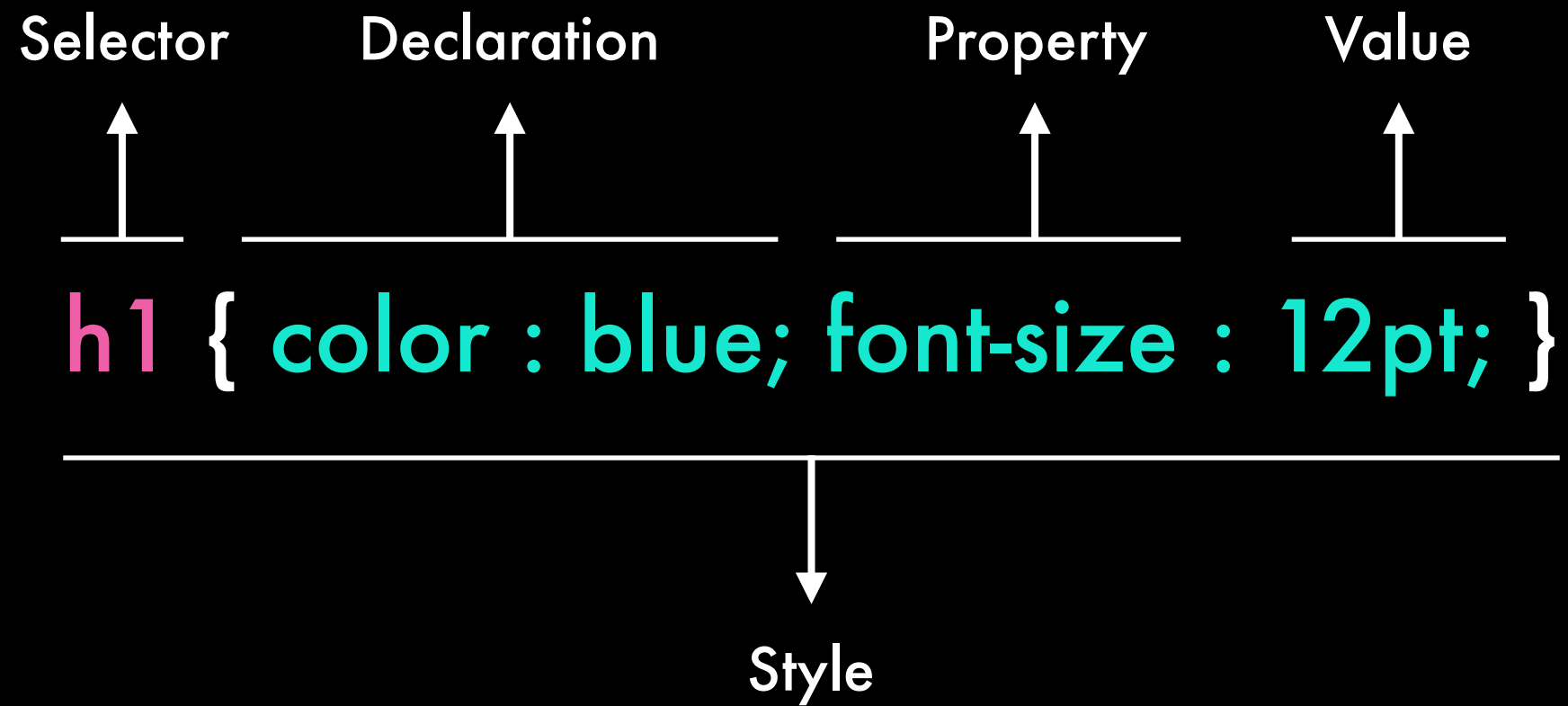```
<head>
    <style> .CSS STYLES GO HERE. </style>
</head>
```

Inline:
```
<h1 style="color:blue;">This is a Blue Heading</h1>
```

**CSS Selectors:** They are used to select HTML elements based on id, class or tag name, attribute, ...

**Tag/element name selector:**
p { color: red; font-size: 12pt; }

**Class selector:**
.container { background-color: blue; }

**Id selector:**
#main { background-color: gray; }

Reference for CSS properties:

https://www.w3schools.com/cssref/