Website Design

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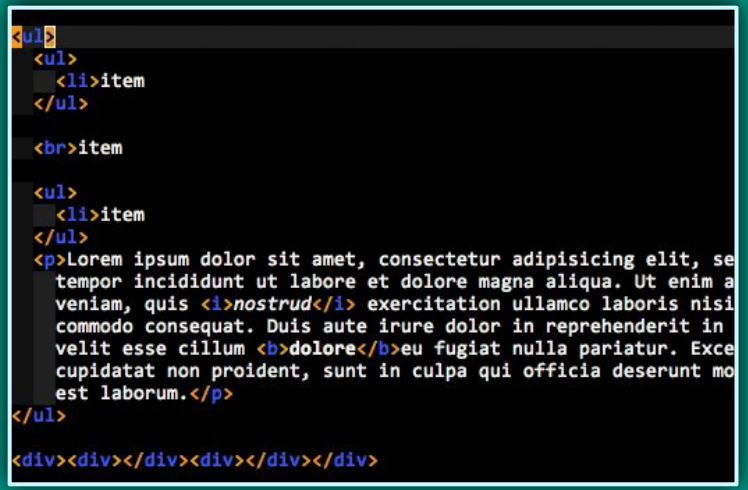
What is Web Design?

It's a combo of CSS and HTML, used to create and decorate website pages.

Why should you learn HTML and CSS?

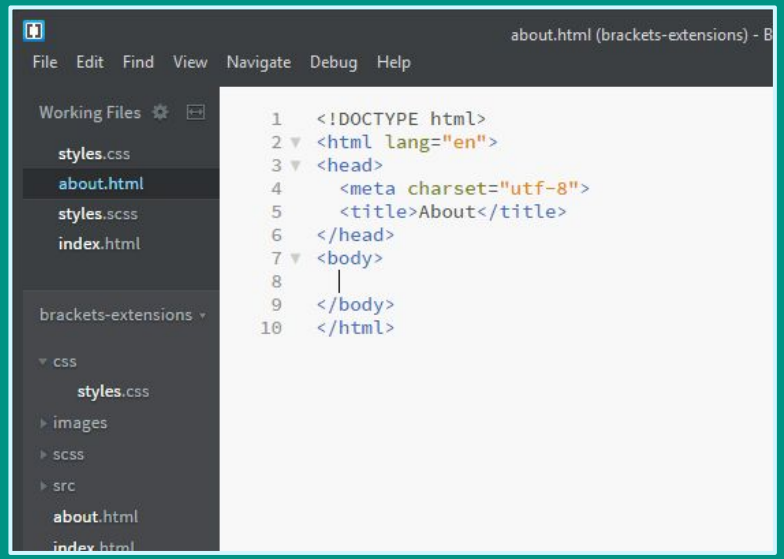
Html and Css are the basics to web development, and other computer languages have very similar concepts.

HTML



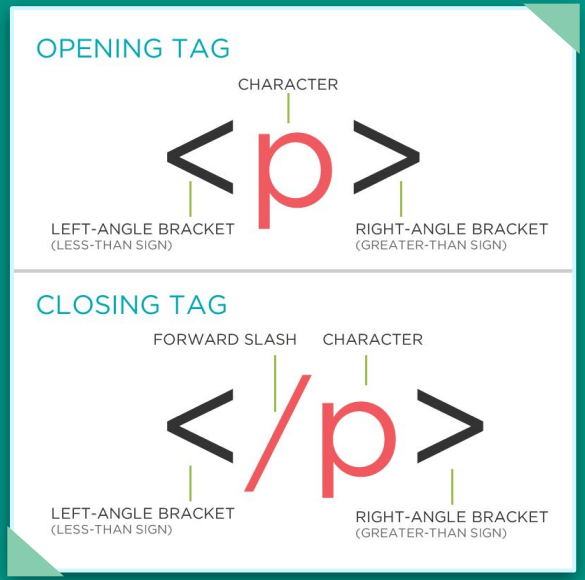
- HTML stands for **H**yper **T**ext **M**arkup **L**anguage
- You use HTML to structure the content of your website pages
- Structured in: Head, body, footer, etc...
- Tags in HTML: heading, paragraphs, lists, graphics, videos, links, etc...

Programming HTML



- HTML can be programmed in a text editor - in Artemis, we used Brackets to code.
- Save the file with *.html* to show that it is a HTML file.
- To comment out code, use <!--.....-->
- White spaces and tabs do not matter.

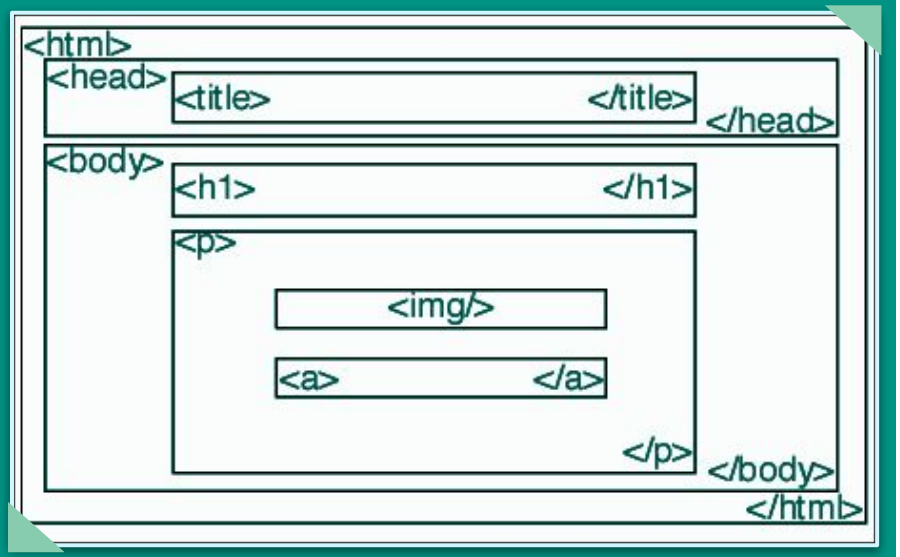
HTML TAGS



- Most tags need to be closed by a </...>
- Elements with no content (aka empty elements) are self-closing tags.
  - Ex.

<title> ...</title> - adds a title	<a href = "..."> - adds a link
... - adds a heading	 - adds graphics, adjusts graphic size
... - adds a paragraph	<iframe src = "..."> </iframe> - adds a video
... - adds an unordered list	... - center text
... - adds an ordered list	... - bold text ... - italicize text <u>...</u> - underline text
<table> - adds a table	 - line break

HTML Hierarchy



Declares that this is a HTML file

Opens up the HTML file - signifies the beginning

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

Opens up the head section

Head elements: title, scripts, styles, meta information, etc...

Closes the head section

```
</head>
```

Opens up the body section

```
<body>
```

Body elements: heading, paragraph, lists, videos, graphics, videos...

Closes the body section

```
</body>
```

Closes the HTML file - signifies the end

```
</html>
```

Examples of HTML

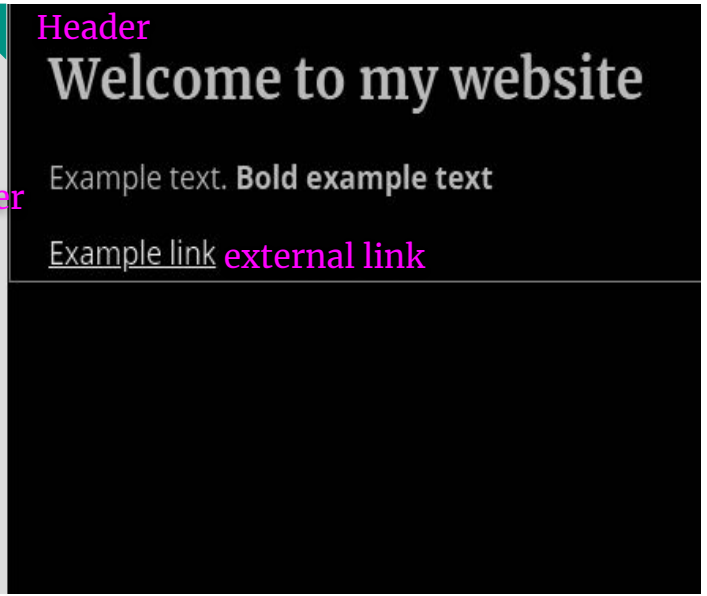
```
1  <!DOCTYPE html>
2  <html>
3    <head>
4      <meta charset="utf-8">
5      <meta name="viewport" content="width=device-width, initial-scale=1">
6      <title>Example Website</title>
7      <link rel="stylesheet" href="style.css">
8    </head>
9    <body>
10     <h1>Welcome to my website</h1>
11     <p>
12       Example text. <strong>Bold example text</strong>
13     </p>
14     <a href="google.com">Example link</a>
15   </body>
16 </html>
```

stating the document is in html

title that appears in the tab of your browser

Header

external link

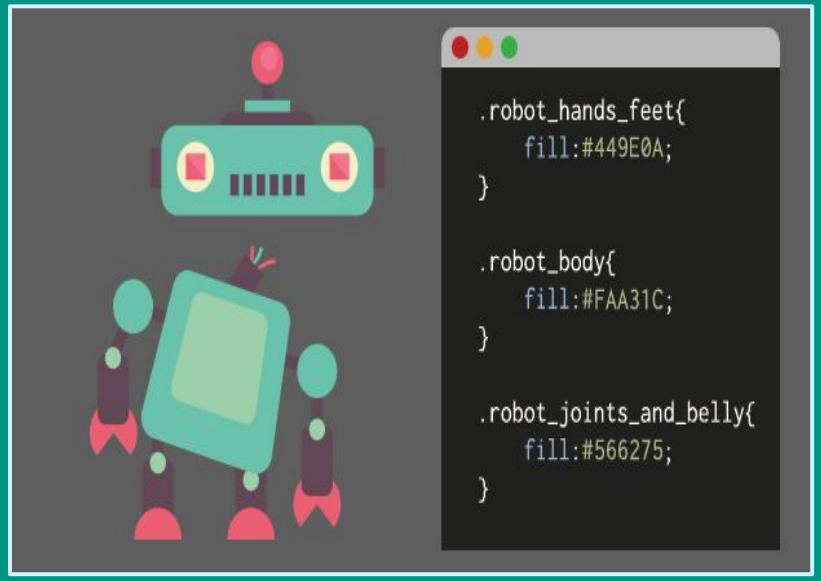


CSS

```
h1 {
    font-family: courier, courier-new, serif;
    font-size: 20pt;
    color: blue;
    border-bottom: 2px solid blue;
}
p {
    font-family: arial, verdana, sans-serif;
    font-size: 12pt;
    color: #6B6BD7;
}
.red_txt {
    color: red;
}
```

- Stands for Cascading Style Sheets
- CSS is used to define styles to use in HTML
- Can change color, font, size, background, shadow, and outline of text, background, and boxes
- It can help adapt websites to fit on different sized screens

What is CSS Used for?



- Can change the website as a whole by changing the *body* section
- Can change certain parts of website (e.g. headers, paragraph, links) to look different than other parts
- Cannot add content to websites, but can change existing content

How to Use CSS

- CSS files are saved with *.css*

- To link a CSS and HTML file you need to write *<link rel=”spreadsheet” href=”(your css file name).css”>*

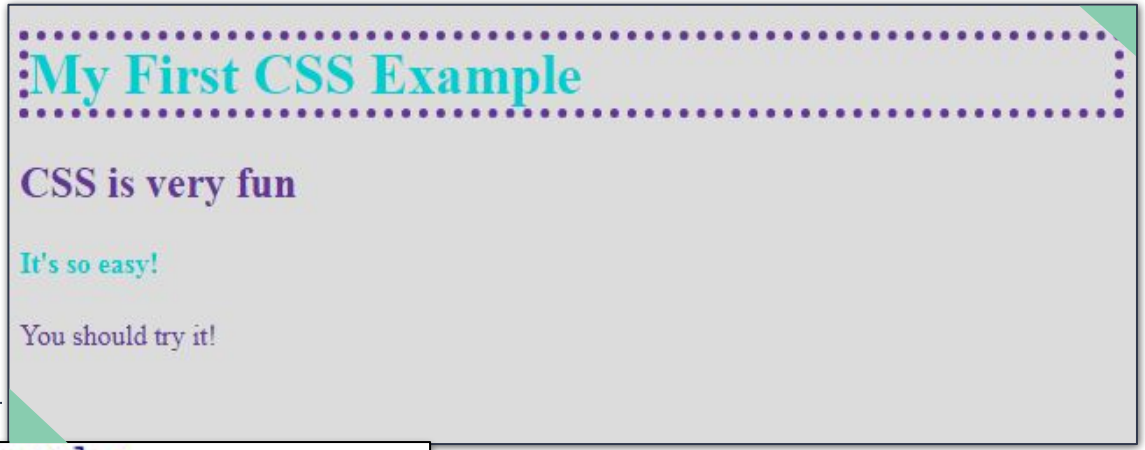
h1 *(header 1)* {

color: #000 *(changes text color to black)*

background-color: #F00 *(adds a red highlight to the text)*

}

Examples




```
h1{     border: 5px dotted rebeccapurple;
}
h4 {
    color:darkturquoise;
}
p{
    color:rebeccapurple;
}
```

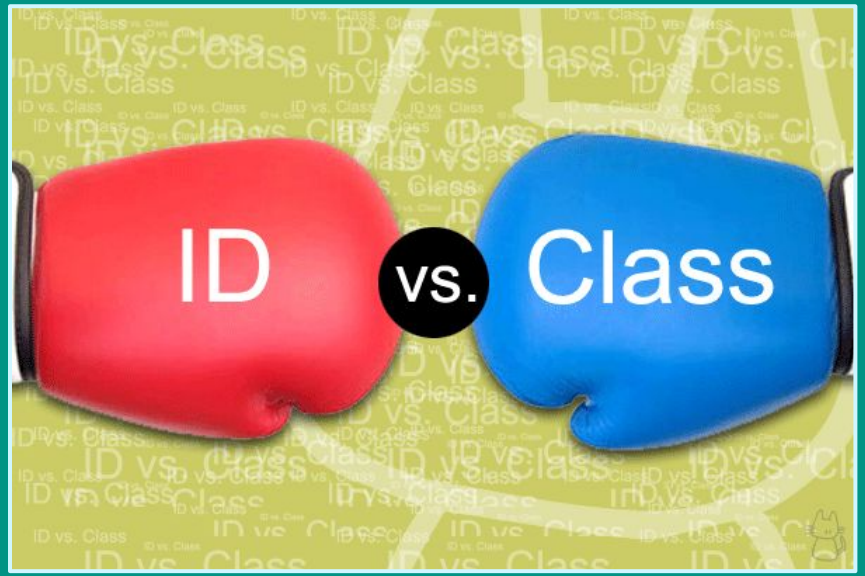
Changes header 1 border to a 5 pixel dotted line in the color purple

Changes the color of all heading 4s text color to dark turquoise

Changes all paragraphs text color to purple

# of CSS

Class & Id



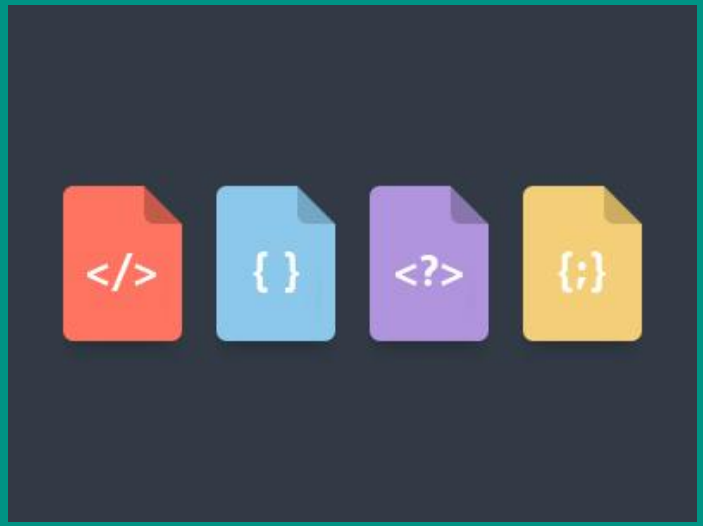
Class

- Classes categorize specific elements
- Not unique
- Can be used on multiple objects

Id

- Id’s are unique
- Only one object can have that id
- Used for identification for a unique element

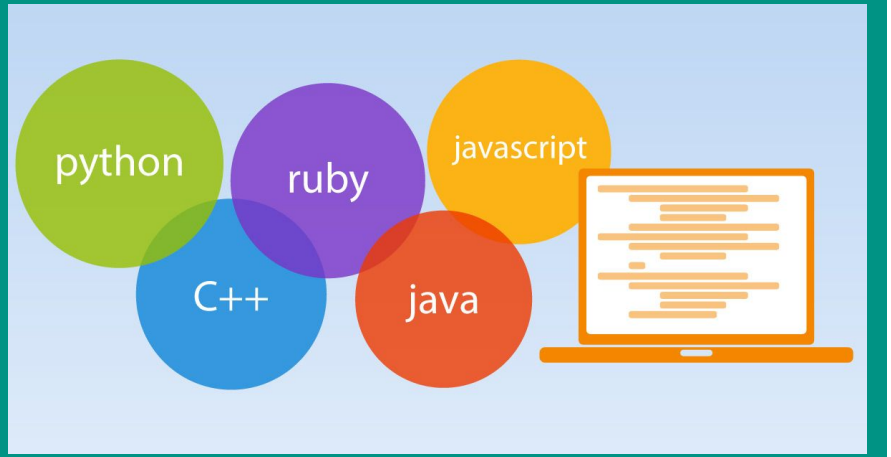
PROGRAMS USED FOR CODING WEBSITES



Programs:

- Brackets
- Thimble Mozilla
- W3Schools Website
  - Used to test your programing
- Text Editors
  - (save as *.html* files)
- Atom
- AWS Cloud9

Languages used for coding websites



Languages

- Python
- JavaScript
- Java
- PHP
- Ruby
- C++/C

Thank You for Listening