

HACKTOBERFEST WORKSHOP 2:

MAD SYNTAX

Syntax is the grammar of coding. Every language has it's own unique syntax rules that must be followed to ensure that the script will be able to exeute.

Today we will cover two beginner friendly languages.

HTML and Python



HTML CHEAT SHEET

<html tags> are made up of elements, which are described by attributes with variable values

TEXT TAGS

` ` emphasize italics

` ` emphasize bold

`<h1> </h1>` largest heading

`<h6> </h6>` smallest heading

`<p> </p>` adds paragraph text

`` determine size 1-7

`` set with name or hex

`<code> </code>` insert code

TABLE TAGS

`<table> </table>` create a table

`<th> </th>` create header row

`<tr> </tr>` create a row

`<td> </td>` create a cell

`<table border="">` sets table border

`<table cellspacing="">` sets spacing

IMAGE TAGS

`` embed an image

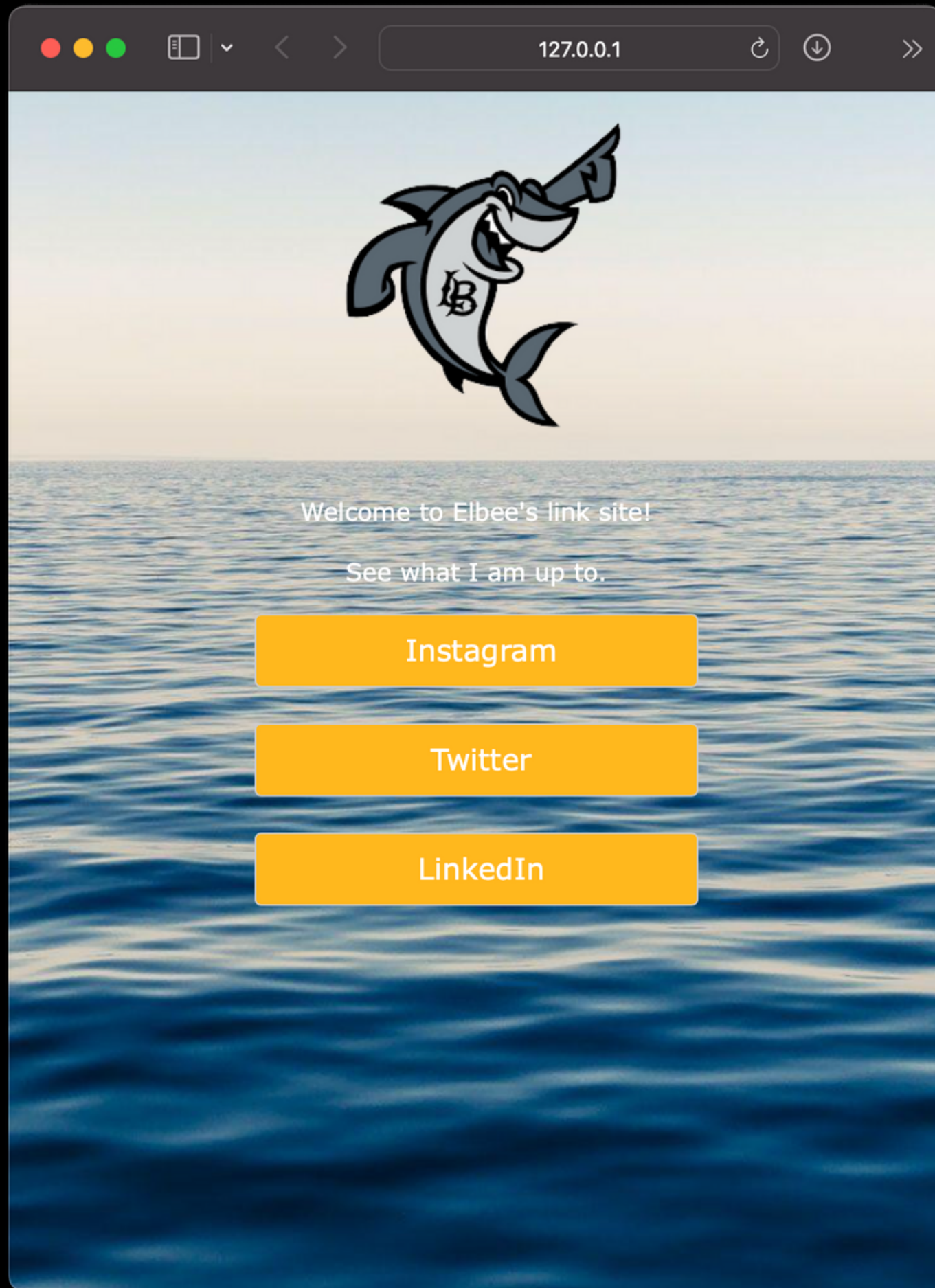
`title=""` name an image

`alt=""` add alternate name

WiC



HTML is a coding language that is used strictly for web design.
Each element is wrapped in `</>` arrow brackets.
HTML elements can be spaced upon different lines.



LET'S BUILD A LINK SITE

1. ACCESS OUR GITUB REPO AND FORK A COPY
2. FILL IN THE MISSING SYNTAX ELEMENTS
3. SAVE CHANGES AND PUSH YOUR ANSWERS



HTML EXERCISE 1:

add photo source path and size

IMAGE TAGS: ``

Within the quotes you can add a URL link
or a folder path.

Inside our repository you will find a folder
called 'photos' and an image called 'elbee.png'



HTML EXERCISE 1: add photo source path

```
<!-- EXERCISE ONE: ADD PROFILE PHOTO AND SET THE HEIGHT TO 200PX -->  
<div class="image-container">  
  
  < _____ class="w3-margin" alt="profilepic" max-width="100%" height=" _____ " style="border-radius: 10%;">  
  
  <div class="w3-text-white">  
    <!------>
```

HINT: ``
Line 77



HTML EXERCISE 1: SOLUTION

add photo source path

```
<!-- EXERCISE ONE: ADD PROFILE PHOTO AND SET THE HEIGHT TO 200PX -->
<div class="image-container">

  <div class="w3-text-white">
<!--<-->
```

HINT: ``
Line 77



HTML EXERCISE 2: add text to the page

TEXT TAGS:

<h1> This is a header. </h1>

<p> This is a paragraph. </p>

Header and Paragraph tags can be used to display text to the webpage. In this exercise you can choose which header size or paragraph tag to use!

You will find a Welcome Message without proper text tags

```
<h1> </h1>  
<h2> </h2>  
<h3> </h3>  
<h4> </h4>  
<h5> </h5>  
<h6> </h6>
```



HTML EXERCISE 2: add text to the page

```
<!-- EXERCISE TWO: ADD PROPER TEXT TAGS -->
```

```
____Welcome to Elbee's link site!____
```

```
____See what I am up to.____
```

```
</div>
```

```
<!------>
```

HINT: header or paragraph tags

Lines 85-86



HTML EXERCISE 2: SOLUTION

add text to the page

```
<!-- EXERCISE TWO: ADD PROPER TEXT TAGS -->  
  
<p>Welcome to Elbee's link site!</p>  
<p>See what I am up to.</p>  
  
</div>  
<!------>
```

HINT: header or paragraph tags

Lines 85-86



HTML EXERCISE 3: add hyperlinks to buttons

REFERENCE TAGS: `href="url.com"`

Within the quotes you can add a URL link
to make the button responsive.

You can use your own personal links for
your linktree.



HTML EXERCISE 3: add hyperlinks to buttons

```
<!-- EXERCISE THREE: ADD HYPERLINK TO BUTTONS -->
<div class="links-container">

  <a _____ class="w3-button w3-hover-pink w3-large w3-round w3-purple w3-border link" target="_blank"><i class="fab fa-instagram">
</i>Instagram</a>
  <br>

  <a _____ class="w3-button w3-hover-pink w3-large w3-round w3-purple w3-border link" target="_blank"><i class="fab fa-twitter">
</i>Twitter</a>
  <br>

  <a _____ class="w3-button w3-hover-pink w3-large w3-round w3-purple w3-border link" target="_blank"><i class="fa fa-code">
</i>LinkedIn</a>
</div>
```

HINT: ``
line 94-100



HTML EXERCISE 3: SOLUTION

add hyperlinks to buttons

```
<!-- EXERCISE THREE: ADD HYPERLINK TO BUTTONS -->
<div class="links-container">

  <a href="https://www.instagram.com/" class="w3-button w3-hover-pink w3-large w3-round w3-purple w3-
border link" target="_blank"><i class="fab fa-instagram"> </i>Instagram</a>
  <br>

  <a href="https://www.twitter.com/" class="w3-button w3-hover-pink w3-large w3-round w3-purple w3-
border link" target="_blank"><i class="fab fa-twitter"> </i>Twitter</a>
  <br>

  <a href="https://www.linkedin.com/" class="w3-button w3-hover-pink w3-large w3-round w3-purple w3-
border link" target="_blank"><i class="fa fa-code"> </i>LinkedIn</a>
</div>
<!------>
```

HINT: ``
line 94-100



```
Rock, Paper, Scissors?  
Rock
```

```
You win! Rock smashes Scissors  
Type Exit to end game.
```

```
Rock, Paper, Scissors?  
Paper
```

```
Tie!  
Type Exit to end game.
```

```
Rock, Paper, Scissors?  
Scissors
```

```
Tie!  
Type Exit to end game.
```

```
Rock, Paper, Scissors?  
█
```

LET'S PLAY ROCK, PAPER, SCISSORS!

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PYTHON SYNTAX RULES

- > All variables should begin with a lower case letter
- > Boolean True and False are reserved words, and should always have a capital letter T or F
- > \n can be used to demote a new line.
- > Python statements must end in a colon, :
- > Parenthesis must have a start and end ()
- > Indentation matters, if, elif, and else statements must have matched tabbing



DID YOU FIND THEM ALL?

Line 7
Computer --> computer

Lines 10, 12, 50
false --> False

Lines 17 and 18
/n --> \n

Lines 20 and 21
missing colons :

Lines 30 and 31
missing end parenthesis)

Line 36
unmatched index