



ZIP CAMP

**Introduction**

» Web Development



# Web Development

“

*Web development is the process of working on the development of a website for the internet or an intranet (private network).*

”

- Wikipedia -



# Web Development



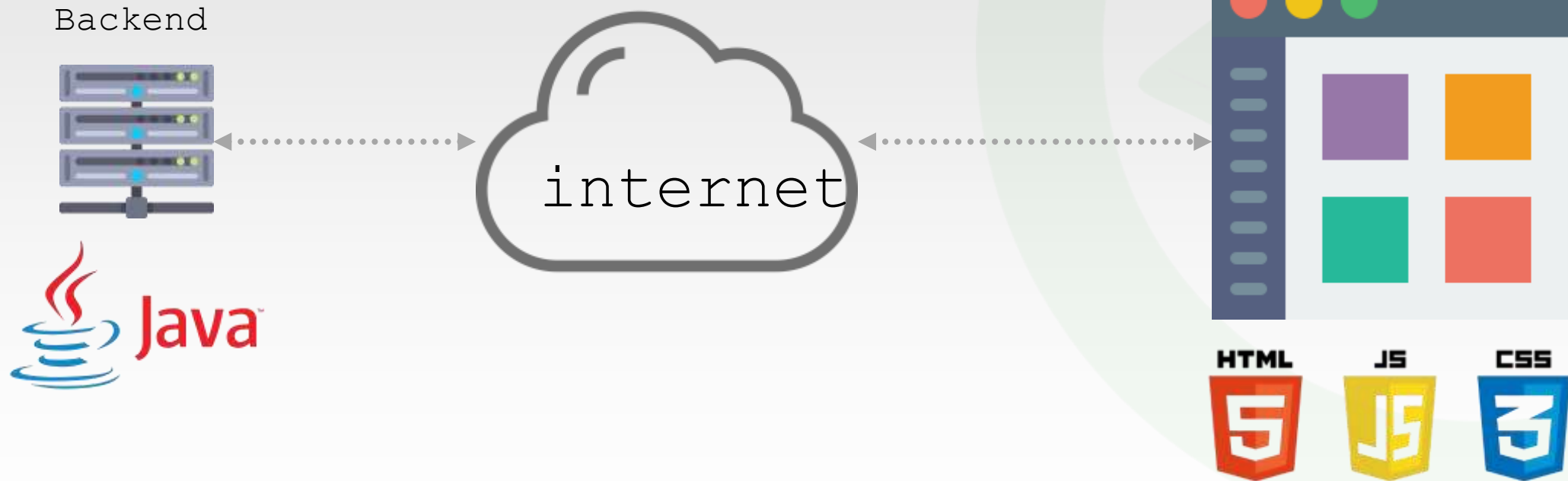
Back-End



Front-End



# Web Development





# HTML

## Fundamentals

- › Web Development
- › What is HTML?
- › Creating HTML page



# HTML – CSS – Javascript

HTML



CSS



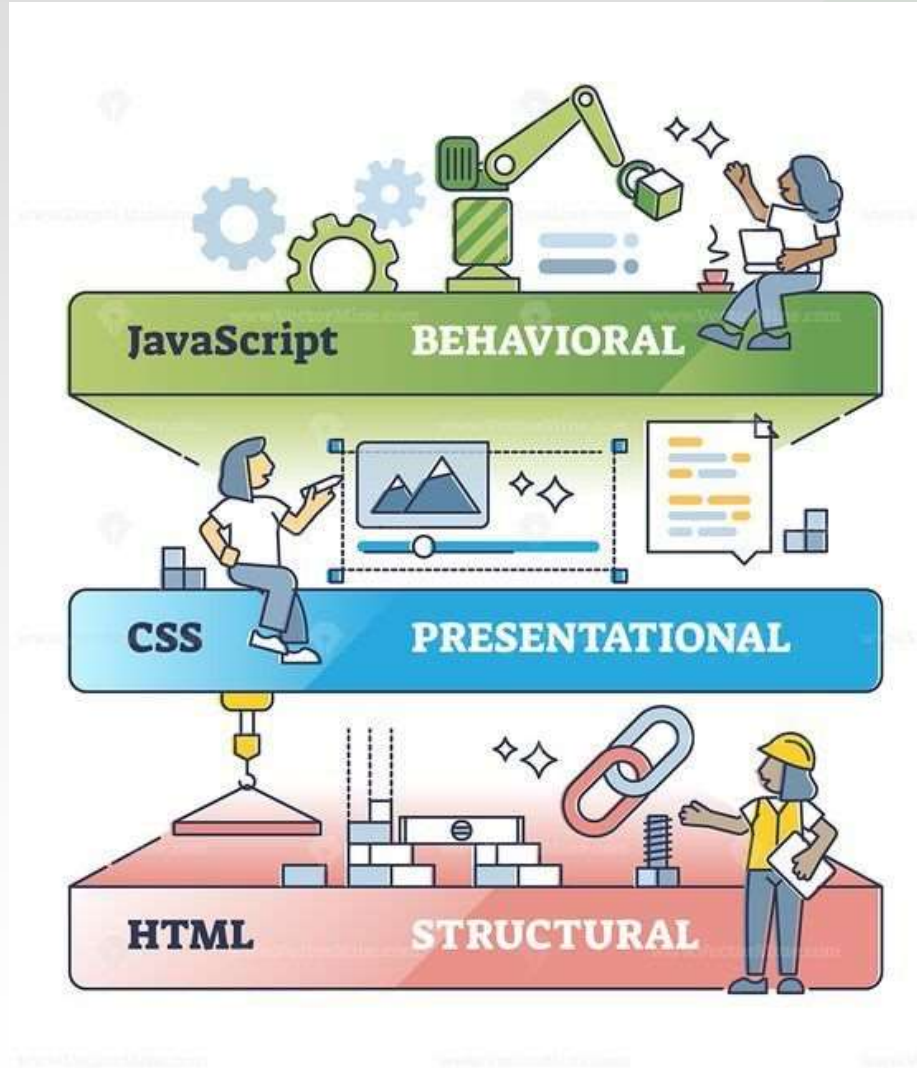
JAVASCRIPT







# HTML – CSS – Javascript





# What is HTML?



Hyper Text Markup Language

It is a markup language used to create web pages. HTML is not a programming language, but it is a **markup language**.





# What is HTML?

<tag>

- HTML commands are called **tags**.
- Tags are written inside less than "<" and greater than ">" symbols
- Ending tags are indicated by the "/" symbol.  
*Example:* `<b>Hello</b>`    `<p>World !</p>`
- Exceptions are `<img>`, `<br>` and `<hr>`.
- These elements are called void tags.



# Create a html page

.html  
extension  
file

```
<html>
```

```
<head>
```

```
</head>
```

```
<body>
```



```
</body>
```

```
</html>
```

Everything is  
contained between  
**html** expressions

element contains  
meta information  
about the HTML page

Everything that  
visitors see is in the  
**body** tag.



# Create a html page

# <title>

It is contained within the head tag and specifies the text to be displayed in the browser's title bar. It is very valuable for SEO.



# Create a html page

The most basic form of code for a web page

Tag

```
<html>
```

```
<head>
```

```
<title>My FirstPage</title>
```

```
</head>
```

```
<body>
```

```
    Hello. This is My First Webpage
```

```
</body>
```

```
</html>
```

Element

- Parent
- Child



# Basic formatting tags

## White Spaces

Browsers interpret consecutive space characters in HTML codes as a single character. In addition, they do not interpret the enter (going to the next line) character at all. It helps developers to write their code more readable way.



# Semantic vs Non-semantic

## Semantic

Semantic tags contain meaning for search engines or developers. Such tags put the element they contain in a certain form according to the meaning.

## Non-Semantic

Non-semantic tags are meaningless. They are only used to group semantic tags..

**<div>** and **<span>**





# Basic formatting tags

`<p>`

paragrap  
h

Turns text into paragraphs.

`<p>` Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s.`</p>`

`<br>`

break

It is used to create a new line within a text.

`<p>` Lorem Ipsum is simply dummy text of the printing and typesetting industry. `<br>` Lorem Ipsum has been the industry's standard dummy text ever since the 1500s.`</p>`



# Basic formatting tags

`<hx>`

heading

It makes texts into headings. There are six standard heading tags available.

`<h1>Heading 1</h1>`

`<h2>Heading 2</h2>`

`<h1>`

`<h2>`

`<h3>`

`<h4>`

`<h5>`

`<h6>`



# Usage of heading tags

```
<h1>How to add website to search engines</h1>
```

```
<p>In this article, you will learn how to register your site with search engines..</p>
```

```
<h2>How to add website to google</h2>
```

```
<p>...</p>
```

```
<h2>How to add website to yahoo</h2>
```

```
<p>.....</p>
```



# Formatting tags

`<b>`

bold

Used to make text bold

`<b>Makes text bold</b>`

`<em>`

emphasis

Used to italicize text

`<em>Makes text italic.</em>`

`<u>`

underline

Used to underline text.

`<u>Underlines this text</u>`



# Nested tags

**The rule to consider when using nested tags:** The tag that is opened first is closed last.

`<p>  
 <strong>Hello</strong>  
 <u>World</u>  
</p>`



`<p>  
 <strong>Hello  
 <u>World</u>  
 </strong>  
</p>`



`<p>  
 <strong>Hello</strong>  
 <u>World</p>  
</u>`



`<p>  
 <i>Hello <u>World!  
 </i></u>  
</p>`





# Formatting tags

`<hr>`

Horizontal  
row

It is used to create a horizontal line

`<hr>`

`<!--`

`-->`

Comment

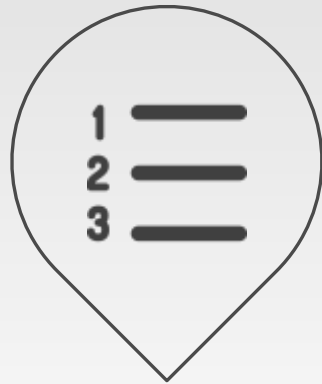
The comment tag is used to insert comments in the source code. Comments are not displayed in the browsers.

`<!--This is a comment. Comments are not displayed in the browser-->`





# listing tags



Ordered List



Unordered  
List



# listing tags

`<ol>`

Ordered  
list

It is usually be displayed with numbers or letters

`<ol></ol>`

`<li>`

List item

Used to add elements to the list

`<ol>`

`<li>Real madrid</li>`

`<li>Barcelona</li>`

`<li>Inter Milan</li>`

`</ol>`



# listing tags

`<ul>`

Unordered  
list

It is used to create a bulleted list  
`<ul></ul>`

`<li>`

List item

Used to add elements to the list  
`<ul>`  
    `<li>Real madrid</li>`  
    `<li>Barcelona</li>`  
    `<li>Inter Milan</li>`  
`</ul>`



# listing tags

start="3"

Changing the list type

```
<ol type="1 | A | a | I | i">  
  <li>Barcelona</li>  
  <li>RealMadrid</li>  
  <li>athletic madird</li>  
</ol>
```

```
<ul type="disc | square | circle">  
  <li>Barcelona</li>  
  <li>RealMadrid</li>  
  <li>athletic madird</li>  
</ul>
```

## Attribute:

Expressions that are written inside the html tags and add additional features to the html



# Link tag

`<a>`

anchor

Used to create a link from one place to another as stated below

- ⦿ from one page to another
- ⦿ to a different site
- ⦿ to phone number
- ⦿ to Whatsapp app



# Link tag

`<a>`

anchor

To link from one page to another page

```
<a href= "page1.html" title="cheap computers"> Click</a>
```

index.html



page1.html





# link tag

`<a>`

anchor

To link to another site:

```
<a href="https://google.com">go to Google</a>
```

To open the link in a new tab

```
<a href="https://google.com.tr" target="_blank">Open Google</a>
```



# link tag

<a>

anchor

To link to a phone number:

```
<a href="tel:+905552226633">Call</a>
```

To link to Whatsapp number:

```
<a href="https://wa.me/905552226633">Whatsapp</a>
```

```
<a href="https://wa.me/905552226633?text=Hello">Whatsapp</a>
```



# Elements by display type

HTML elements are divided into two categories based on how they are displayed and the space they occupy on the page.

## Block Elements

div	header
p	aside
h1-6	main
ol, ul, li	table
hr	footer
blockquote	nav
form	section

## Inline Elements

a	button
b, strong	input
i, em	textarea
br	select
img	label
sup, sub	
code	
span	



# Adding image

`<img>`

image

Adding images in the page with the img tag. Jpg, png and svg are preferred.

```

```

**Free image stores:** [unsplash.com](https://unsplash.com), [pexels.com](https://pexels.com),  
[flaticon.com](https://flaticon.com)



# Forms

The structures used to get information from the user are called forms. There can be textbox, button, radio button, checkbox etc. elements in the form.

`form`

create an HTML form for user input. It contains all form elements.

`input`

General name of form elements used to get information from the user

`label`

Element used to inform the user about the form element or define label for elements



# Creating Form

`<form>`

`<label>email</label>`

`<input type="text">`

`<input type="button" value="save">`

`</form>`

email

save





# Creating Form

Form tag has various attributes

```
<form method="post" action="users/update">
```

method

It usually takes a post or get value. It determines the method by which the information in the form is sent to the server.

action

It is determined which endpoint on the server will deal with the form information.



# Creating From

```
<input type="text | email | hidden ...." name="name" value="john"  
placeholder="">
```

text

number

email

password

search

url

tel

hidden



# Creating Form

```
<input type="button | submit | reset" name="btn" value="save">
```

button

submit

reset



# Label - Input relation

```
<form>  
  <label for="email">Email</label>  
  <input id="email" type="text">  
</form>
```



# Creating Form

textarea

textarea tag in the form element that allows to enter a very long amount of text. Valid value can be written between textarea tags.

```
<textarea name="w3review" rows="4" cols="50"></textarea>
```



# Validations

Attributes used for form validation

required

minlength

maxlength

min

max