



HTML basics

HTML course: Lesson 3



Lesson Plan

1

What is HTML

2

HTML elements

3

HTML attributes

4

HTML tags

5

Emmet – the essential toolkit for web-developers

HTML5 HyperText Markup Language

HTML - HyperText Markup Language

```
👉 <body>
 👉 <h1>Heading</h1>

 👉 <p>This is a paragraph.</p>

 👉 

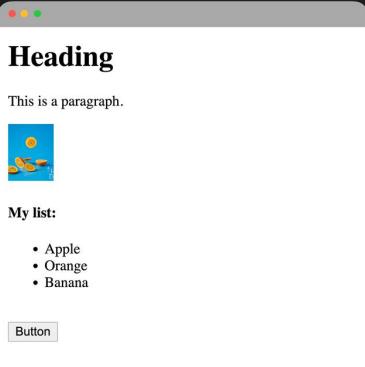
 👉 <div class="my-list">
 👉 <h4>My list:</h4>

 👉   <ul>
   👉   <li>Apple</li>
   👉   <li>Orange</li>
   👉   <li>Banana</li>
  </ul>
</div>

 👉 <br>

 👉 <button onclick="alert('Submit')">Button</button>
</body>
```

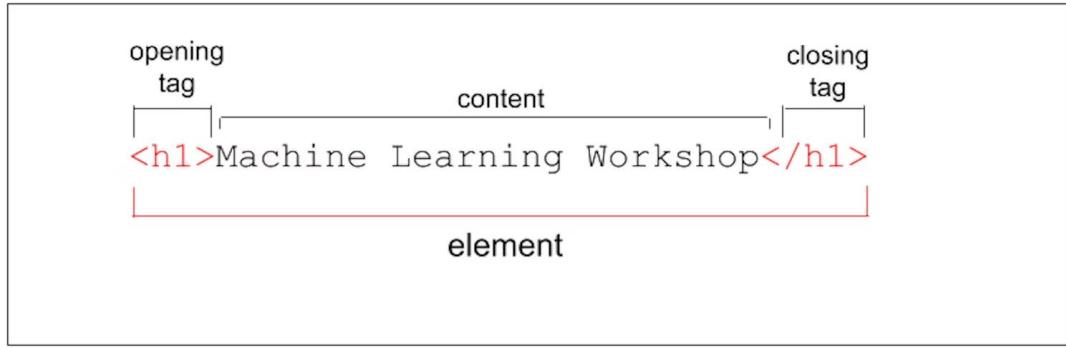
→



– is the standard markup language for describing the structure of documents displayed on the web



HTML contain elements



Element: tags and content

Browsers do not display tags; tags are used to interpret the content of the page.

```
1 <!DOCTYPE html>
2 <html>
3   <head>
4     <title>Example</title>
5     <link rel="stylesheet" href="st
6   </head>
7   <body>
8     <h1>
9       <a href="/">Header</a>
10    </h1>
11    <nav>
12      <a href="one/">One</a>
13      <a href="two/">Two</a>
14      <a href="three/">Three</a>
15    </nav>
```

Types of Elements by Tag

● void elements

- Consist of a single tag
 - Do not contain text or nested elements
-

```
<br>, <col>, <embed>, <hr>,
<img>, <input>, <link>,
<meta>, <source>, <track>,
<wbr>
```

● replaced elements

- Information for display is taken from their attributes
-

```
<iframe>, <video>, <embed>

<input type="range"/>
```

● non-replaced elements

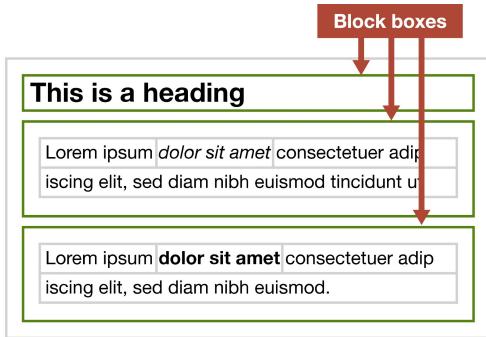
- Have opening and closing tags;
 - may contain content and other elements
-

```
<p>
This paragraph has some
<strong> strong </strong>
content
</p>
```

Types of Elements by Type

Block Elements

<header>, <footer>
<h1>, <p>, <div>
, ...



Occupy the full width of the page (or the available space of the parent)

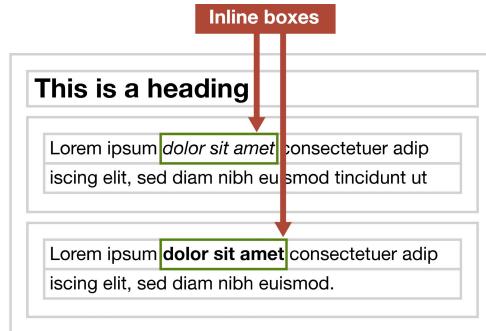
Cannot be nested within inline elements, but can be nested within block elements

<p> and <h1>-<h6> cannot contain block elements, only inline elements

Inline Elements

<a>

, ...



Occupy only as much space as their content

Can contain only data (text) and other inline elements, but <a> can contain block elements

Used to highlight a piece of text within a block element

HTML Tags

HTML tags

1. Basic Structural and Text Tags

- Tags like `<div>`, ``, `<p>`, `<h1>`–`<h6>`, `<a>`, `
`, `<hr>`, `<blockquote>`, etc.

2. Semantic Tags:

- Examples: `<header>`, `<footer>`, `<article>`, `<section>`, `<nav>`, `<aside>`, `<main>`, `<figure>`, `<figcaption>`, `<mark>`, `<time>`.

3. Forms and Input Elements:

- Examples: `<form>`, `<input>`, `<textarea>`, `<button>`, `<select>`, `<option>`, `<label>`, `<fieldset>`, `<legend>`, `<output>`, `<datalist>`, `<keygen>`, `<meter>`, `<progress>`.

4. Graphics and Multimedia:

- Examples: ``, `<audio>`, `<video>`, `<source>`, `<canvas>`, `<track>`, `<svg>`.

5. Tables:

- Examples: `<table>`, `<tr>`, `<td>`, `<th>`, `<thead>`, `<tbody>`, `<tfoot>`, `<caption>`, `<col>`, `<colgroup>`.

6. Scripts and Resource Links:

- Examples: `<script>`, `<noscript>`, `<link>`, `<style>`.

7. Metadata Tags:

- Examples: `<meta>`, `<title>`, `<base>`, `<head>`.

<header> - page or block header

The screenshot shows a website header with a dark blue background. At the top left are navigation links: 'Shop', 'Collection', 'Blog', and 'Contact'. In the center, there's a logo for 'Serenity Medical Group' with the tagline 'main A Communities Together' and a 'New' badge. To the right are email and phone number links. Below the header is a white search bar with a magnifying glass icon and the placeholder 'Search For Products'. On the far right are icons for a shopping cart, user profile, and heart.

<nav> - page or website navigation

<footer> - page or block footer

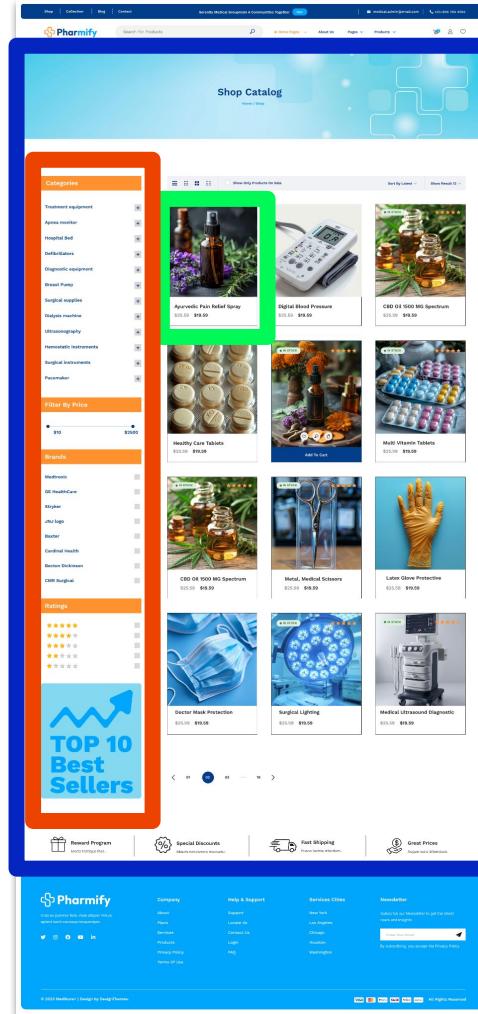
The screenshot shows a website footer with a blue background. On the left, there's a logo for 'Pharmify' and a short paragraph of text: 'Cras eu pulvinar felis, vitae aliquet metus. optent taciti sociosqu torquentper.'. Below this are social media icons for Twitter, Instagram, Facebook, YouTube, and LinkedIn. The footer is divided into several sections: 'Company' (links to About, Plans, Services, Products, Privacy Policy, and Terms Of Use); 'Help & Support' (links to Support, Locate Us, Contact Us, Login, and FAQ); 'Services Cities' (listing New York, Los Angeles, Chicago, Houston, and Washington); and a 'Newsletter' section with a form to 'Enter Your Email' and a note about accepting the Privacy Policy. At the bottom, there's a copyright notice for '© 2023 Medikure+ | Design by DesignThemes.' and a row of payment method icons: VISA, MasterCard, PayPal, Skrill, Neteller, and Amazon Pay. The footer ends with a 'All Rights Reserved' statement.

<main>

- unique page content
between header and footer

 - image

<aside> - sidebar



<h1>

<h2>

<h3>

<h4>

<h5>

<h6> - headings

<p> - text

headline 1

Work Sans

headline 2

Work Sans

headline 3

Work Sans

headline 4

Work Sans

headline 5

Work Sans

headline 6

Work Sans

headline 7

Work Sans

body text

Apparently we had reached
a great height in the atmosphere,
for the sky was a dead black

heading

Work Sans

** - unordered list**

** - ordered list**

** - list item**



Cras eu pulvinar felis, vitae aliquet metus.
aptent taciti sociosqu torqueat.



Company

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- [Plans](#)
- [Services](#)
- [Products](#)
- [Privacy Policy](#)
- [Terms Of Use](#)

Help & Support

- [Support](#)
- [Locate Us](#)
- [Contact Us](#)
- [Login](#)
- [FAQ](#)

Bullets and List

Ordered list –

- 1 One
- 2 Two
- 3 Three
- 4 Four
- 5 Five

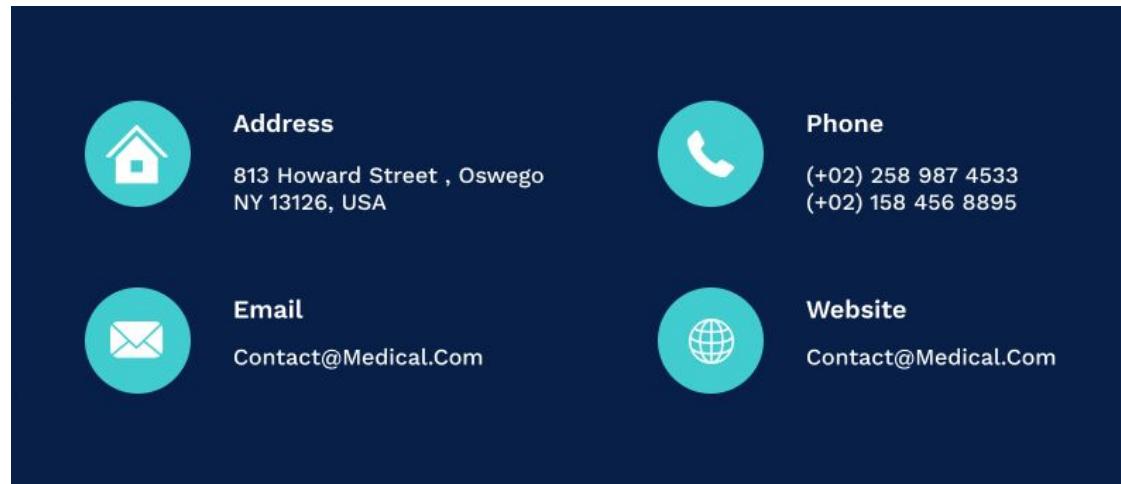
Unordered list –

- Red
- Blue
- White
- Yellow
- Green

<dl> - description list

<dt> - term/name

<dd> - description of this term/name



<blockquote> - quotation

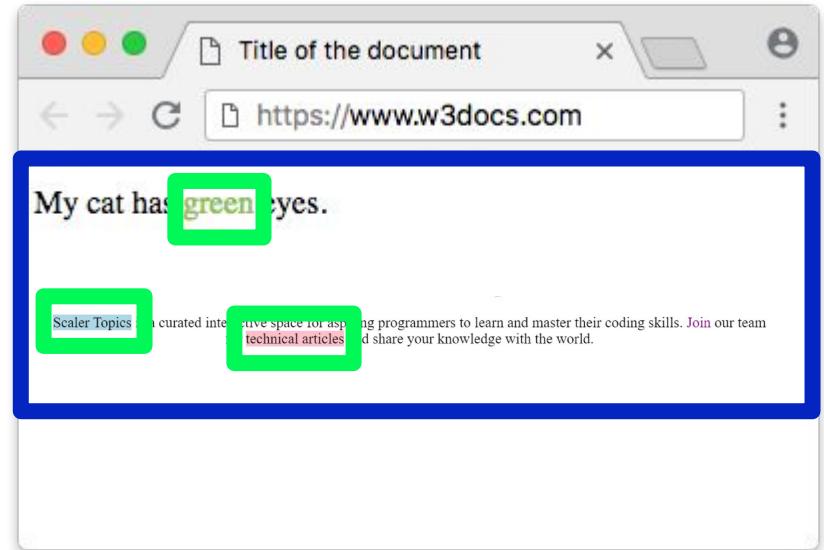
<cite> - title of a cited creative work

“ I've never seen a platform as easy to use, as easy to onboard new users, as easy to scale, and as easy to customize to your own workflow, process, team, clientele, and changing environment.



Cheryl Venable, Senior Manager of Operations, Creative Center,
Sony Pictures Television

**** - inline container



<div> - block container

<section> - logical block

<article> - independent content unit



Sold

Blood Pressure Monitor

\$25.59 - \$19.59

Add To Cart



Modern Stethoscope

\$25.59 - \$19.59

Add To Cart



Ultraviolet Sterilizer

\$25.59 - \$19.59

Add To Cart



New

Blood Glucose Meter

\$25.59 - \$19.59

Add To Cart



Patient Monitor

\$25.59 - \$19.59

Add To Cart

<table>

<tr> - table row

<td> - table cell

Diagram illustrating the structure of an HTML table:

The table has a **Caption** "Questionnaire Results". It consists of a **Row Group** (the first row) and a **Column Group** (the second row). The Row Group contains four rows: **Question**, **Question 1**, **Question 2**, and **Question 3**. The Column Group contains four columns: **Women** (Yes, No), **Men** (Yes, No), and two empty columns at the bottom.

Question	Women		Men	
	Yes	No	Yes	No
Question 1	42%	58%	61%	39%
Question 2	53%	47%	69%	31%
Question 3	26%	74%	51%	49%
Average	40%	60%	60%	40%

Range	-199.99 to 199.99 C
Resolutions	0.01 C
Accuracy	GB Dedicated Graphic Accuracy (NVIDIA - Open GL 4.0)
Battery	5000mAh (More Driven by the amount of data)
Dimensions	HD Screen (1920×1080 with 100% desktop Scaling)

<details> - additional details, user can open and close

<summary> - visible heading for the <details>

FREQUENTLY ASKED QUESTIONS

Have Any Question? Find Answer Here

Quality Services Provided At Affordable Rates ? 

Minimum Prices For The Maximum Output Advertise Anything ? 

From The Lowest To The Highest In Advertising Services ? 

Advertising That Makes All The Difference Leaping Over Boundaries? 

Integer vel dolor a tellus vehicula malesuada eu eget tortor. Morbi aliquet dolor vel varius imperdiet. Aenean condimentum arcu non sem aliquam, at sagittis metus congue. Praesent ut aliquam sem. Suspendisse potenti. Suspendisse tincidunt diam et ex rutrum volutpat. Aliquam et nisi ullamcorper, bibendum justo nec, pellentesque magna. Donec venenatis consectetur elit ut blandit. Suspendisse ut velit ac ex fermentum auctor. Praesent consequat semper condimentum. Donec laoreet lectus magna, vitae pellentesque dolor vehicula.

<a> - link

Shop | Collection | Blog | Contact

Serenity Medical Groupmain A Communities Together New

medical.admin@email.com

+02-856 789 4563



Search For Products



Home Pages

About Us

Pages

Products



<button>



Cras eu pulvinar felis, vitae aliquet metus.
aptent taciti usque torquentper.



Company

About
Plans
Services
Products
Privacy Policy
Terms Of Use

Help & Support

Support
Locate Us
Contact Us
Login
FAQ

Services Cities

New York
Los Angeles
Chicago
Houston
Washington

Newsletter

Subscribe our Newsletter to get the latest news and insights

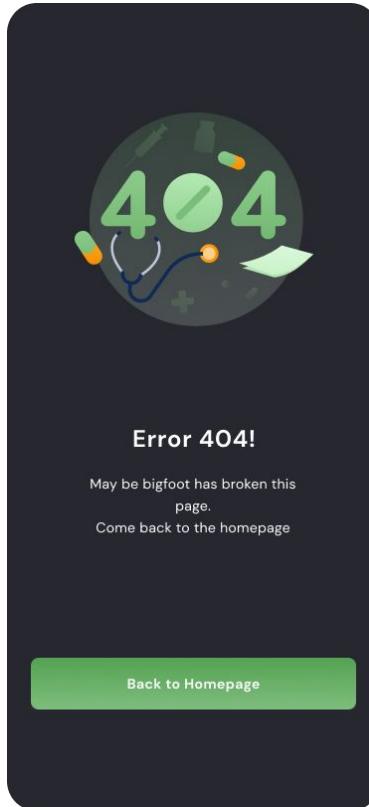
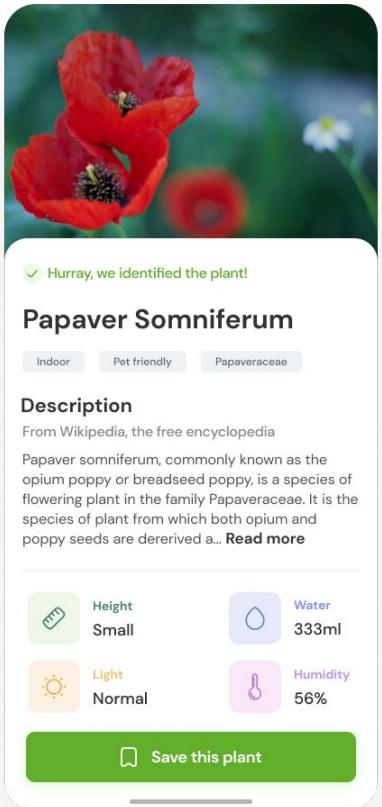
Enter Your Email



By subscribing, you accept the Privacy Policy

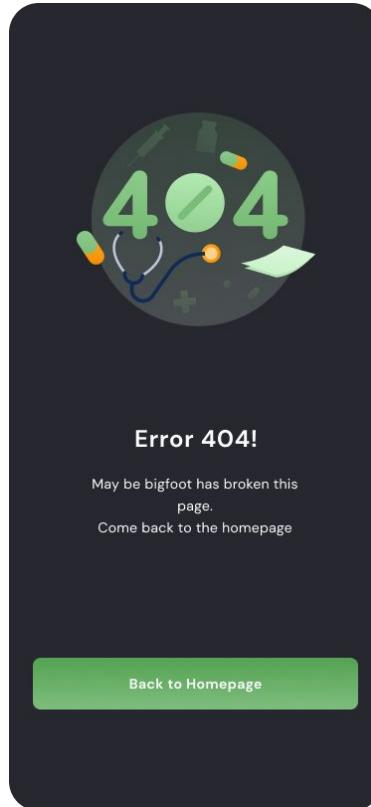
Practice

a vs button





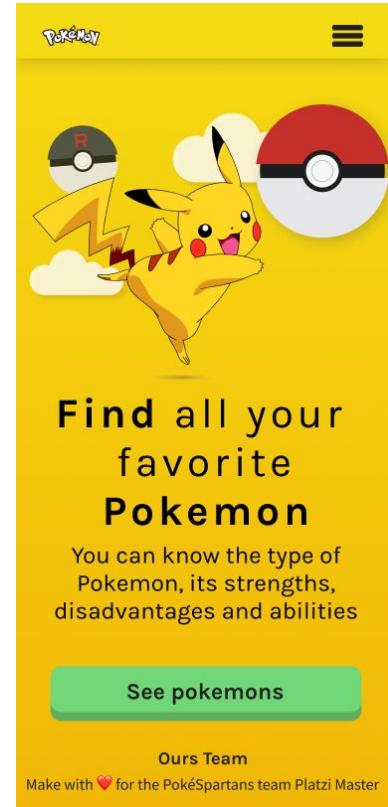
<button>



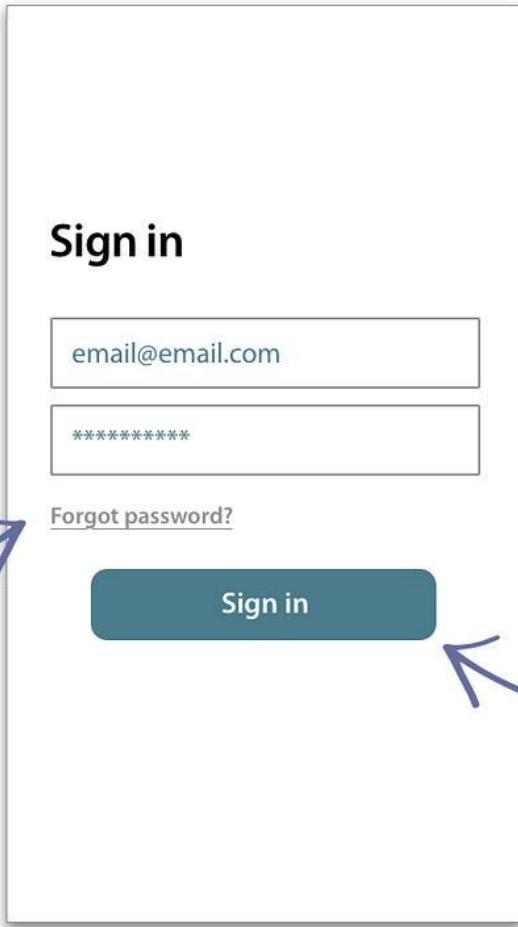
<a>



<a>
<button>



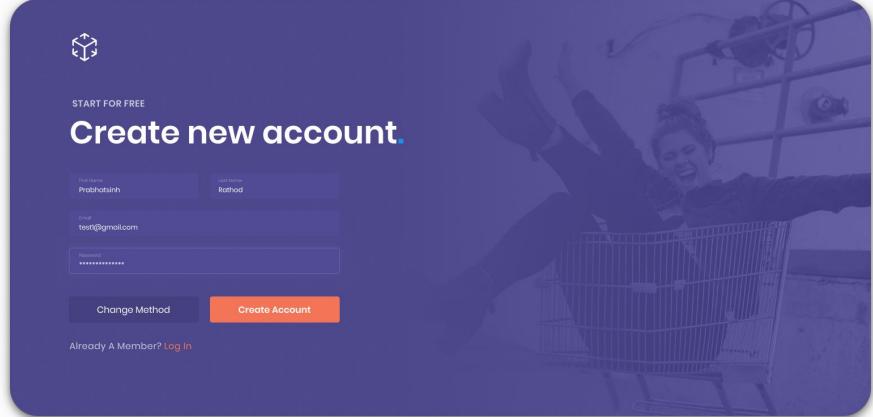
<a>



a
vs
button

Link - we need to go to another page or to another place on the same page

Button – something should happen in the same place on the page



Where *art* meets meta-modernity

Rotterdam Art Museum brings you the most astonishing and authentic artworks from all across Europe and South America. Our sole mission is to instigate appreciation for art in people's minds and hearts :)

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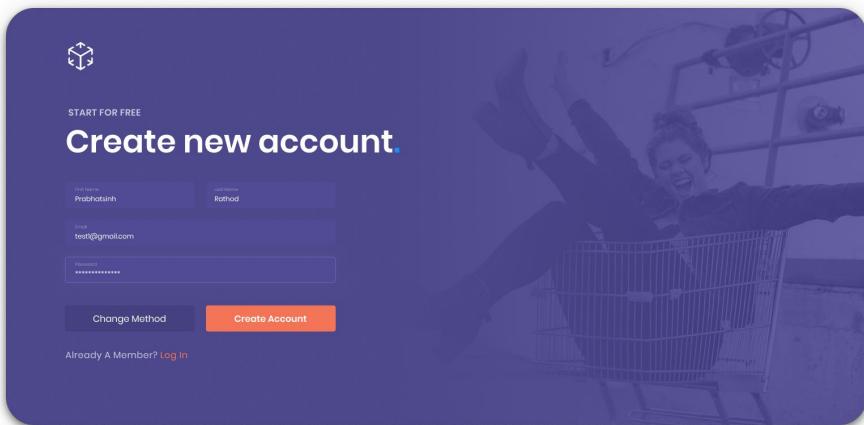


The Crown



[Watchlist](#) • • • [Watch Now](#)

<button>



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Rotterdam Art Museum brings you the most astonishing and authentic artworks from all across Europe and South America. Our sole mission is to instigate appreciation for art in people's minds and hearts :)

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We are the best way to check the rarity of NFT collection.

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- The Basilisks that players collect are represented with NFTs on Ethereum's blockchain with real-world value. Players use the Basilisks they have gathered to battle other players to win ether (ETH).
- In Balthazar Dragons, players are immersed in a 3D open world to explore and capture dragon-like beasts called Basilisks. Balthazar Dragons is an upcoming fantasy role-playing game developed on the Ethereum blockchain by a decentralized autonomous organization (DAO) called the Balthazar DAO.

-  List name 1
-  List name 2
-  List name 3
-  List name 4

"The First Huge Metaverse Arena To Arrange Live Sports, Hang Out And Even Make Bets And Wagers"

 8.5 / 10 Markout Corporation



NFTs are digital assets that represent real-world objects

Alternatively, if you're on nft.binance.com, go to User Center > Settings > Basic > Set Avatar and Nickname, and you'll be redirected to the main site. Binance NFT Creators have the option of setting their Avatars on nft.binance.com. Once you set your new unique nickname, it will be standardized and used across the Binance ecosystem.

NFT Avatar Generators

You can find a range of NFT marketplaces where you can buy existing NFTs or list your own NFTs for sale.

Tags: NFT ICO Crypto

Share:

Anatomy of an HTML Document

1. Doctype: Historical artifact
 2. Root Element
 3. Element for connecting resources not visible on the page
 4. Element that sets the document's UTF-8 encoding
 5. Element for the page title (displayed in the browser tab or bookmarks)
 6. Element for the content of the entire page
- 



Break time

HTML Attributes

HTML

Attributes



Attributes provide additional information about an element that you do not want to display in the content.

An attribute must always have:

- A space between it and the element name (or the previous attribute if the element already has one or more attributes)
- Attribute name, followed by an equals sign
- Attribute value, enclosed in quotes
- The order of attributes does not matter

Types of

Attributes

global

Can be applied to any element

```
<p class="box error">Setting 'box' class</p>
```

required

Without them, the element is invalid

```
<a href="index.html">Home page</p>
```

boolean

Do not require a value

```
<button disabled>You can't click here</button>
```

custom

Can be created for later use in JS with
the **dataset[name]** property
data-your-name

```
<button data-learning="workshop">Click</button>
```

Attribute

class

Used for styling with CSS

- Class name can be with a text
- A good class name should answer the question, **"What does this element do?"**
- Do not name classes **by content, style, or tag**, as they may change
- **Avoid using numbers** in class names; the order of blocks may change
- Use only **English words, no transliteration**
- Written in **lowercase**
- No spaces in class names; use **hyphens** for compound class names
- Preferably no **more than three words** in a class name
- An element can have many classes

Examples

class

Not recommended	Better
class="krasnaya-knopka"	class="error-button"
class="PageHeader"	class="page-header"
class="first-heading"	class="main-heading"
class="section-main-important-text"	class="primary-text"
class="green-heading"	class="section-heading"
class="text-two"	class="default-text news-text"

Comments in HTML

```
<div>
  <!-- HTML Comment
  This comment will not be seen in the browser window but
  is sent to the browser which can add to the delay of a
  page load. -->
```

- Invisible to the user
- Explanations in the code for yourself or colleagues
- No sensitive data
- Hide blocks of code from the page without deleting them from the file
- Cannot nest comments within each other
- To quickly comment/uncomment a line or block of code, use **Ctrl + /** or **Cmd + /** in most editors
- Often used to mark the beginning of a large piece of code and explain its purpose
- Visible in the browser's developer tools, so write only what anyone can see

</body></html>

5

. (.) < (MEOW)

~~~~~ - - >

</div>

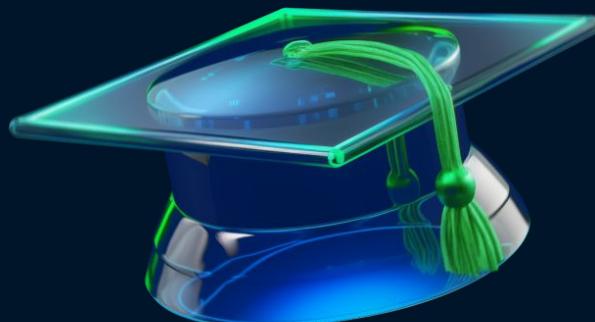
Bonus

# VS Code extensions

- HTML tree
- Auto close tag
- Highlight matching tag
- W3C Offline HTML Validator

# What We Learned Today

1. What HTML is
2. HTML syntax:
  - Element
  - Tag
  - Attribute
  - Class
3. How to choose tags



# Homework until next Monday

1. Practice Emmet
2. Pass the free practice HTML Course
3. Practice HTML in small tasks
4. Markup of Figma template
  - tags
  - attributes
  - classes
5. Check your site markup Validation and Heading hierarchy





# QUESTIONS?



**Please fill out the feedback form**  
**It's very important for us**



**THANK YOU!**  
**Have a good evening!**