<html> (adv.)

TJ Dev Club



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Quick Basic HTML Refresher

- Markup language, little logic, little styling
 - NOT A PROGRAMMING LANGUAGE!!!
- Forms the structure of the website
- <tags> and stuff

```
<!doctype html>
<html>
    <head>
        <!-- metadata (e.g., title, seo stuff) -->
        </head>
        <body>
            <!-- actual content of page (e.g., text, headers, images, you name it!) -->
        </body>
        </html>
```



Basic text

- Headers (increase in number, decrease in size): <h[num]>
- Paragraphs:
- Bold and italic: and

```
<h1>Heading 1</h1>
<h2>Heading 2</h2>
<h3>Heading 3</h3>
<h4>Heading 4</h4>
<h5>Heading 5</h5>
<h6>Heading 6</h6>
This <strong>is</strong> <em>a</em> paragraph
Auto line breaks after paragraph
```



Example HTML Page



<div>

Basic general use element for **blocks** (not inline!). Wrapping, making a box, menus, whatever needs to be a block.

```
Blah blah blah
div style="border: solid">Box. Not inline.</div>
blah blah blah blah.
```



General use inline element, doesn't make any changes to the element but can be used to apply classes, animations, or anything else you want.

```
Only highlight what is 
<span style="border: solid">most important</span> 
in your notes
```



k>

- Used to link external resources (e.g., CSS files) or favicons
- Placed in the <head> section

```
<head>
  <!-- External CSS file -->
  <link rel="stylesheet" href="styles.css" />

  <!-- Favicon -->
    <link rel="icon" href="/favicon.ico" />
  </head>
```



<details> and <summary>

Dropdowns

```
<details>
    <!-- Summary is what you click on -->
    <summary>Pigeon information</summary>

    <!-- Content that is only shown when you click on the summary -->

    Pigeons are contentious aircraft. Some people believe they are spies for the
    government. Others believe they are animals.

    </details>
```



<details> and <summary>

Open attribute lets it be open initially

```
<details open>
  <!-- Summary is what you click on -->
    <summary>Pigeon information</summary>

  <!-- Content that is only shown when you click on the summary -->

    Pigeons are contentious aircraft. Some people believe they are spies for the
    government. Others believe they are animals.

    </details>
```



<abbr>

Use for abbreviations. Helps with accessibility and screen readers

The report was published by <abbr title="National Public Radio">NPR</abbr>.



<meta>

Various uses:

- Metadata
- Instructions for browser
- Search Engine Optimization (SEO)
- HTTP header simulation

```
<meta charset="utf-8">
<meta name="viewport" content="width=device-width, initial-scale=1">
```



- Mobile devices tend to act weird (thanks iOS 28)
- Usually mobile devices pretend that their screen is really big, then zoom everything out so the entire page can be seen
- Why? Many (old) sites don't optimize for mobile, so they only look good on large screens.



On a mobile device, because everything is so small, the user must manually zoom in (very bad UX!). Can you even read anything on this page?





This is what we want. By including <meta name="viewport">, mobile devices don't automatically zoom out and our website looks a *lot* nicer.

■ WikipediA		Q
HTML Article Talk		
×̈Α	. ₩ 7	λ ≠ ⁰
".htm" and ".html" redirect here	. For other uses, see H	TM.
Hypertext Markup Language (HTML) is the standard markup language) fir documents designed to be displayed in a web browser. It defines the content and structure of web content. It is often assisted by technologies such as Casacding Style Sheets (CSS) and scripting languages such as JavaScript.		
HTML		
HTML		
Official logo of HTML5[1]		
Filename extension	.html	
Internet media type	text/html	
Type code	TEXT	
Uniform Type Identifier (UTI)	public.html	
Developed by	WHATWG World Wide Web Consortium (W3C:	





Search Engine Optimization (SEO)

- When you try to find a website, where do you usually go first?
 - SEARCH ENGINES!!!
 - Higher ranking on search engines = more impressions
- How do we get our website to show up first? This is what SEO is for!
 - Making our websites attractive to search engine algorithims
 - How do we rank first on Google?



What Search Engines Look For

- Keywords (title, description, tags)
- Images to show the end user
- High quality content/backlinks

How do we make this information accessible to search engines? Metadata!



These tags should be in every HTML site you create!

```
<meta charset="utf-8">
<meta name="viewport" content="width=device-width, initial-scale=1">
```



The title on your website is **VERY IMPORTANT**!!!

```
<title>Best Hiking Trails in Northern Virginia</title>
```



<meta name="description"> and <meta name="keywords"> describe your site, so
putting useful keywords in here is very important.

```
<meta name="description" content="Discover top hiking trails in NoVA with maps.">
 name="keywords"
 content="hiking, northern virginia, trails, maps, travel'
```

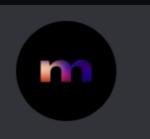
OpenGraph (og): control the embeds on messaging and social media platforms.

Descriptive image ==> More clicks

```
<meta property="og:description" content="Top routes, maps, and tips for every hiker.">
<meta property="og:image" content="https://example.com/images/nova-hikes.jpg">
<meta property="og:url" content="https://example.com/hiking/northern-virginia">
```



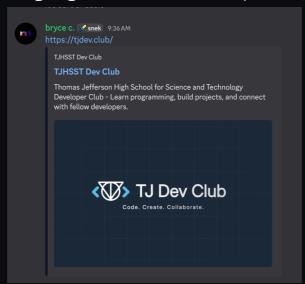
No Open Graph tags, super boring.



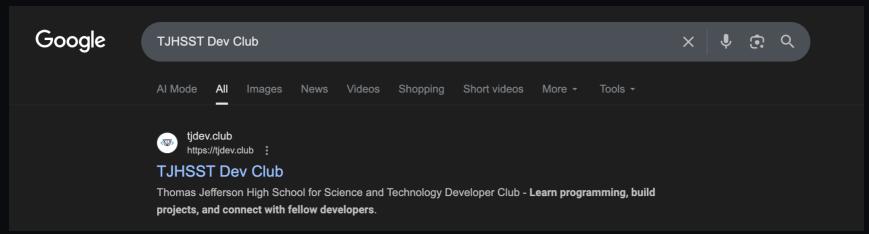
bryce c. 📈 snek 9:35 AM

https://tjdev.club/

OG tags gives us a nice preview!



name="description" controls the small text snippet



Components

- New concept that allow us to go beyond plain HTML
- Extensive use in JS libraries
 - Not just limited to JS (e.g., Python w/ Jinja)
- Reusable HTML templates with some logic



Components Example

Repeating ourselves a lot, and gets annoying to type all of these, cluttered websites



Components Example

What if, single tag, makes us a task box with button and styles everything?



Mini-project

- Setup a Director site (static) w/ an officer
- Nobody wants to look at my site
- Optimize the site for mobile (viewport meta), and SEO (meta tags)

Shell Code -> https://tinyurl.com/tjdevclub-shell-12



</le>ture>

