

Build a Weather App DAY 1



Introduction!

I am bad at describing about myself :(

My name is

HRITIK AGGARWAL!

"REE - TICK"

Important Notes -

- You DON'T need any experience.
- We will be using HTML5, CSS3, and JavaScript for building this web app.
- This workshop will be spread across 6 parts each week from 5:30 to 7:30 in this same room (SMITH 311).

How many people know what flex-boxes are?

Raise your hands please!

Softwares you need -

- Preferred Browser <u>Google Chrome</u>
- Preferred Text Editor <u>Visual Studio Code</u> pros call it VS Code (you should too;)
- That's all folks!!!

Initial Setup -

- Go to https://github.com/hritikaggarwal2/BuildAWeatherApp OR
 bit.ly/WeatherApp19
- Download Zip file by pressing the Green Button on the page which says "Clone or download"
- Now extract this folder to your desktop (or wherever you prefer)
- This is the folder we will be working in!

What is HTML?

- A markup language (i.e it is used to represent text and other data)
- Stands for HyperText Markup Language
- Basically it's the building blocks for webpages
- HTML5 is the latest version of HTML which has introduced a lot of new and interesting features to HTML

What HTML looks like?

```
<!DOCTYPE html>
<html lang="en">
    <head>
        <meta charset="utf-8">
        <meta name="author" content="DubsTech">
        <meta name="description" content="Building a weather app">
        <title>Your weather app</title>
        <link href="css/style.css" rel="stylesheet">
    </head>
    <body>
        <h1>Weather app</h1>
        <img src="img/cloudy.jpg" alt="Cloudy">
        It's pretty cloudy
    </body>
 /html>
```

Creating an HTML file

Let's get started!

Steps to create your first HTML file

- Open VS Code (Visual Studio Code)
- Mouse Drag the folder that you just extracted from the downloaded zip file into VS Code
- Now to create a new file you can press cmd + N or ctrl + N or go to File -> New
 File
- After you get this new empty file we will save this file with an extension of
 - .html make sure you save it in the folder that you just dragged
- To save the file press cmd + S or ctrl + S or go to File -> Save File

You saved as .html right??

Just be sure about that!

Any questions up till now?

Don't feel shy!

HTML Fundamentals

Is it time to write the code already? NO:P

NO NEED TO TYPE STUFF RIGHT NOW!

Let's concentrate on understanding first!

What are <tags>

- Tags are the building blocks of HTML files
- Basically "keywords" special words that are surrounded in < & >
- There are two types of tags
 - <u>Container Taq</u>: tags which have both starting and ending
 - < tag> some content / other tags </tag>

Empty Tag / Self-Closing Tag : tags which have both starting and ending
 - <tag />

Fundamental HTML Tags

<html>Setting up the structure</html>

<!DOCTYPE html>

- A VERY SPECIAL TAG!!!!!!!!!!!!
- Different from other tags as neither a container tag nor an empty tag
- This tag tells the webpage that the document is an HTML5 webpage
- Even if you don't write this right now, your code will run perfectly! But this will be important when/if you start working as a developer
- Always comes on top of the html file

<html></html>

- This wraps everything below <!DOCTYPE html>
- Everything that you want to write will come inside this!
- Will only come once in a web page!

```
<!DOCTYPE html>
<html>
...
</html>
```

<body></body>

- We write all the content (text, images, tables, and basically all the visible part here)
- This will come directly inside <html> tag

Any questions up till now?

Don't feel shy!

Inspector Tool

<body>Developer tools in chrome</body>

Developer Tools in Chrome

- Right click on any page
- Click on Inspect
- A window opens up
- Under the "Elements tab" you can see the entire HTML structure of that page!
- There are some great tools in that panel which we will talk about during the entire course:)

Basic HTML Tags

Important content ahead

Heading Tags

- Heading tags denote titles, subtitles, etc.
- Container Tag as you can add content inside this!
- There are 6 different heading tags

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

The <h1> tag is the biggest and the <h6> tag is the smallest

Paragraph Tag

- The tag is used for smaller blocks of text like paragraphs
- Generally contain multiple lines.
- Container Tag as you can add content inside this!
- For example:
 - Today I am going to learn about HTML and CSS!

Off Topic

You should know this before proceeding

Attributes of <tags>

- We can give properties / attributes to tags
- We write these inside the tag opening after the tag name
- We can write multiple attributes and the order doesn't matter
- For example:

name is the attribute here and para is the value

Back to Basic HTML Tags

More important content ahead

HTML Links / Anchor Tag / Hyperlink

- The <a> tag is used for adding links to the webpage
- Container Tag as you can add content inside this!
- For redirecting to a page use href attribute (short for hyperlink reference)
- Can be either internal or external links
- For example:

Take me to google

Image Tag

- The tag is used for adding images to the webpage
- Self Closing Tag as you don't need to add content inside this!
- For image source use **src** attribute (short for source)
- Can be either internal or external source
- For example:

```
<img src="desktop/photo.png"/>
```

Buttons

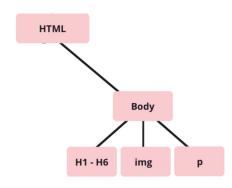
- The <but>button> tag is used for adding buttons to the webpage
- Container Tag as you can add content inside this!
- For example:
 - <but><button>Take me to google</button></br>

Any questions up till now?

Don't feel shy!

Nesting Elements

- Nesting means that CONTAINER TAGS in html can contain other tags!
- Because of this, an HTML document ends up being structured as a "tree" of elements.
- For example:



Let's Practice a Little Bit!

Wohooo! Coding Time

Make a page with 2 different headers, 1 paragraph (which has one link inside it), 1 image, and a button

Structuring Content

<div>Smart Decisions</div>

Section Tag

- The <section> tag is used for adding sections to the webpage
- Container Tag as you can add content inside this!
- This is used to separate out data and organize your website
- You will understand how useful this is as we move forward
- For now -

Think of <section> as individual slides of this ppt and the whole presentation as your website!

- See DubsTech website
- For example:

```
<section> ... </section>
```

Div Tag

- The <div> tag is used for adding divisions to the webpage
- Container Tag as you can add content inside this!
- Separating content which is not big enough to become a <section> or content inside a <section>
- See DubsTech website
- For example:

```
<div> ... </div>
```

Any questions up till now?

Don't feel shy!

Let's start with our app now!

Finally!

Write the basic structure!

DOCTYPE, HTML, BODY

Take a closer look at the screenshot!

Draw boxes around the data to identify <section> and <div>

Writing Code!

Follow Along!

That's a lot for a day!

I think we should rest up a bit!