

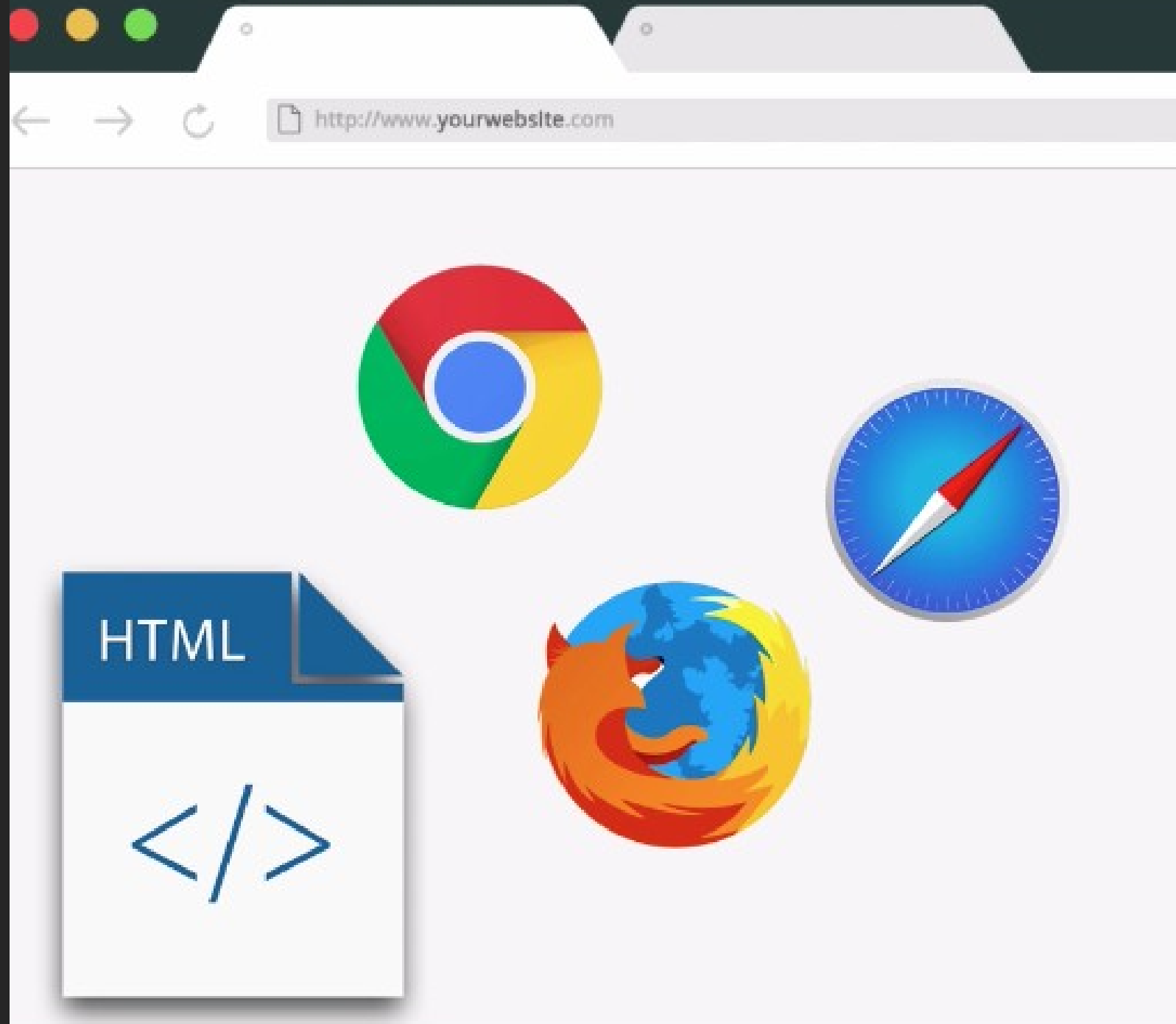
A graphic of a document with a blue header and a white body. The word 'HTML' is written in white on the blue header. The white body contains a blue code symbol consisting of a less-than sign, a forward slash, and a greater-than sign. The entire graphic is set against a dark blue background.

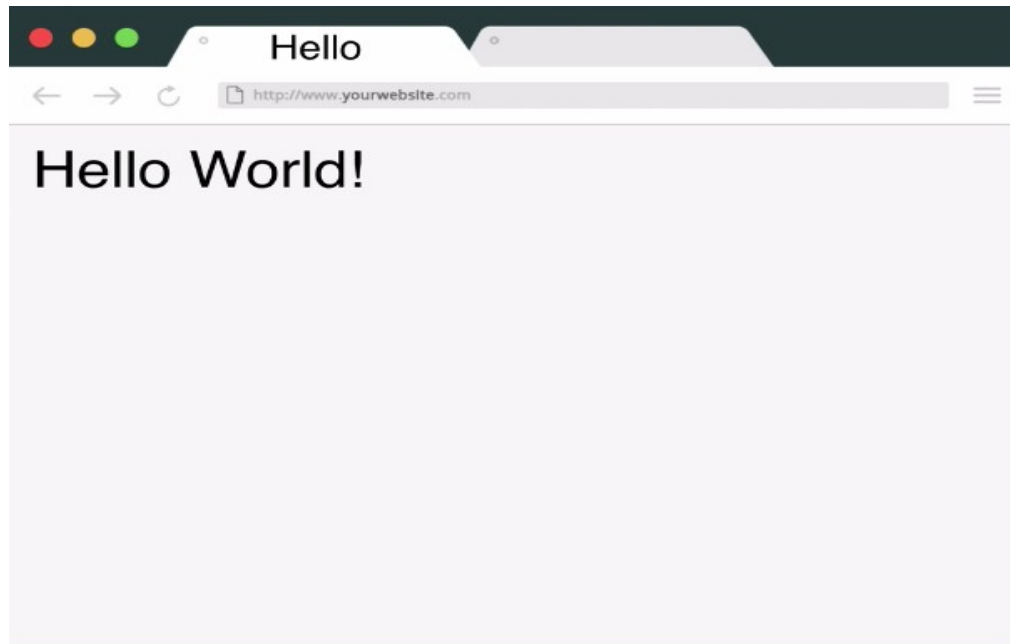
HTML



Introduction to HTML

No matter what you use as your browser. They all have a single purpose and that is to interpret your files such as html files, css files.





```
<head>
  <title>Hello</title>
</head>

<body>
  <h1>Hello World!</h1>
</body>
```

It is really important to remember that HTML is the foundation of all websites.



Donald E. Knuth (高德纳), Professor Emeritus of [The Art of Computer Programming](#) at [Stanford University](#), welcomes you to his home page.

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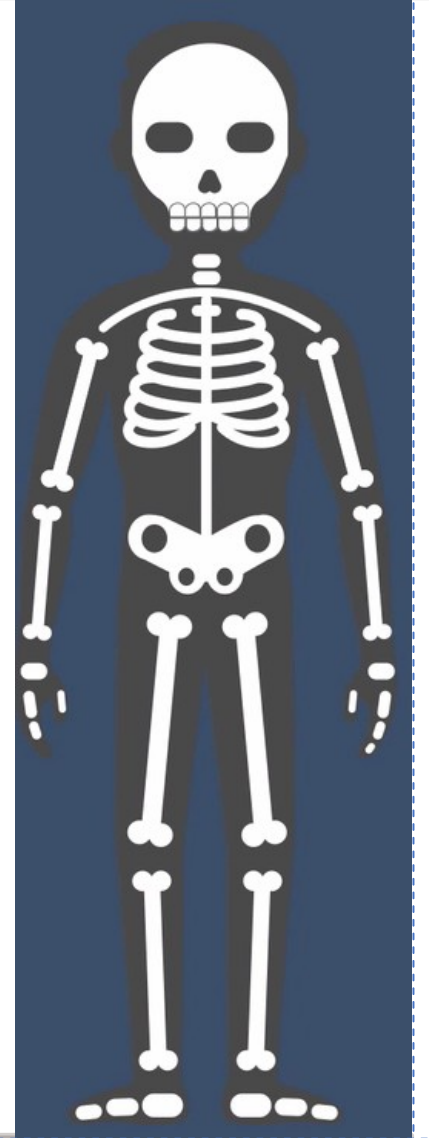
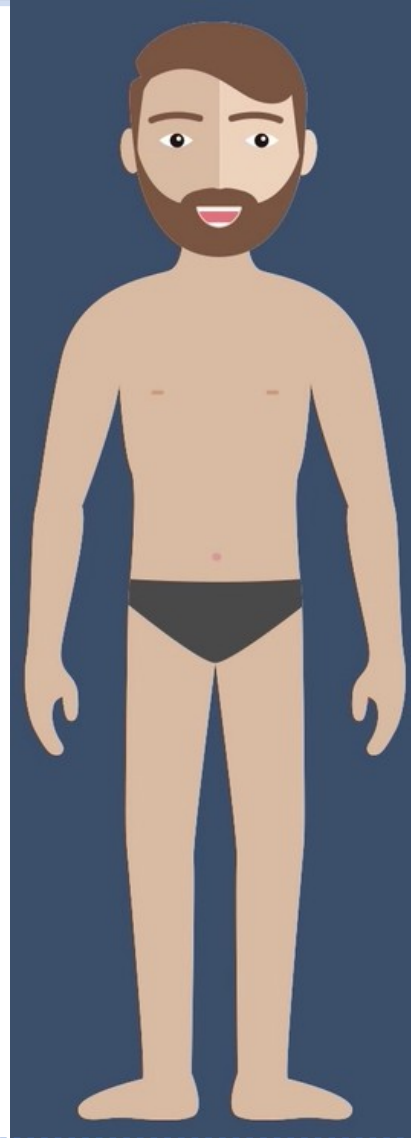
) [Fantasia Apocalyptica](#) NEW NEW



HTML

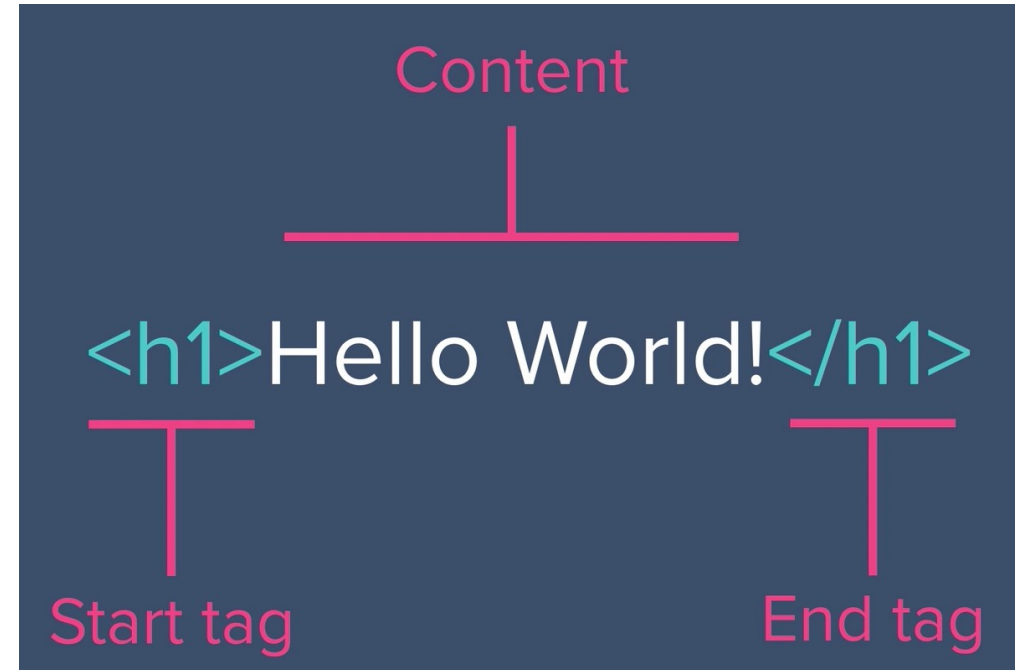
- It stands for hypertext markup language.
 - The really important part it's the word Markup.
 - There are other markup languages such as XML, extensible markup language or GML, generalized markup language.

The Anatomy of an HTML Tag



Heading tags

- There are 6 heading tags.
- Starts with h1 as the bigger header.
- `<h1></h1>`
- `<h2></h2>`
- `<h3></h3>`
- `<h4></h4>`
- `<h5></h5>`
- `<h6></h6>`

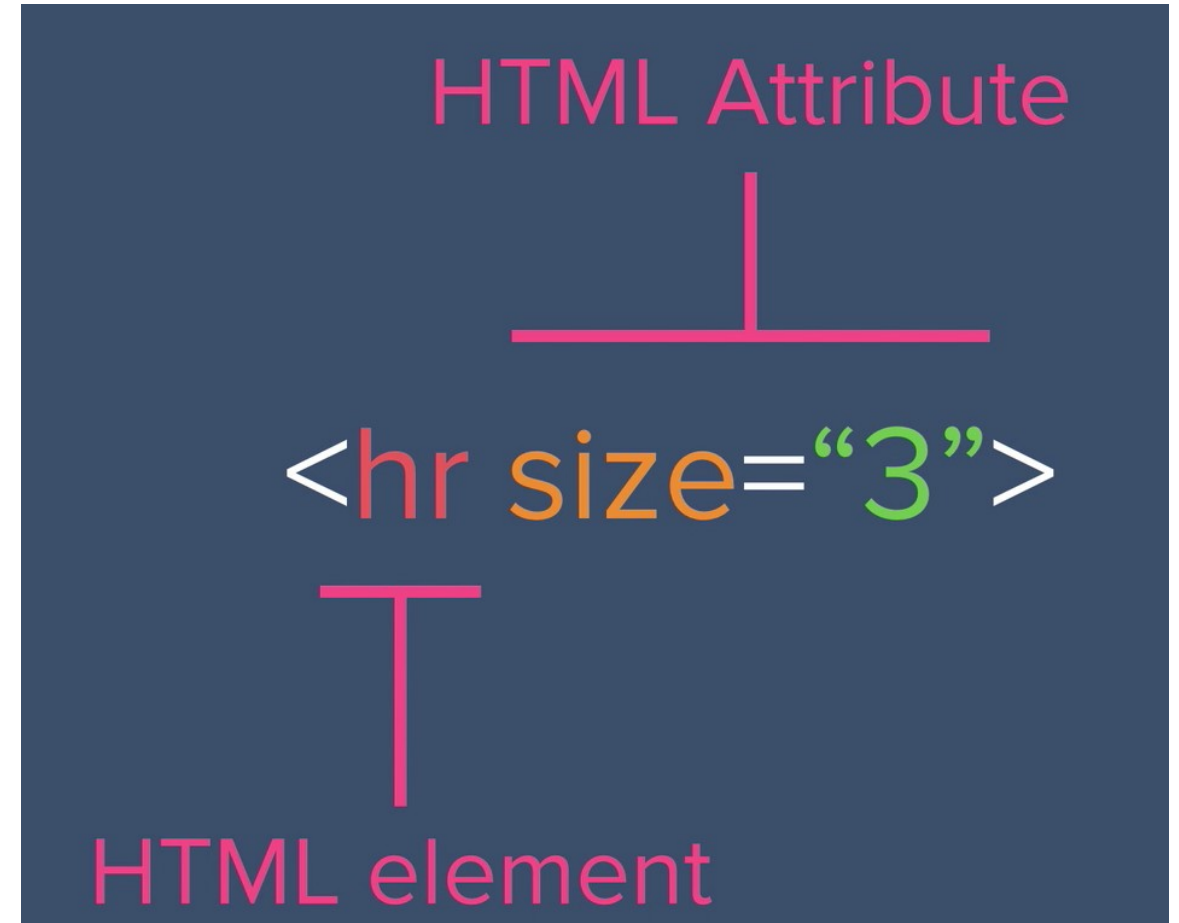


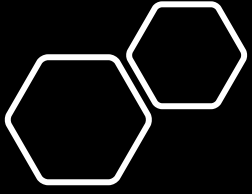
There are a few others that work like this one.



Self-closing tag

HTML
Attribute: it
gives more
information to
the browser to
specify
modification
to the HTML
element





Boilerplate

- Boilerplate refers to sections of the code that have to be included in many places with little or not alterations. In other words, it is a code template that we can re-use.

html + ↵

html + →|

! + →|

HTML:5 + →|

The screenshot shows a code editor with a sidebar on the left containing icons for Explorer, Search, Source Control, Run and Debug, and Testing. The Explorer sidebar shows a file named 'index.html' under a folder named 'HTML'. The main editor area displays the content of 'index.html', which is a boilerplate HTML document. The code is as follows:

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>Document</title>
7 </head>
8 <body>
9   ...
10 </body>
11 </html>
```

Breaking down the boilerplate

- Describe the document type.
It tells the browser what is the version of the HTML you are using and render the file as a html 5 document.

HTML 5

```
1 <!DOCTYPE html>
```

In older documents (HTML 4 or XHTML), the declaration is more complicated because the declaration must refer to a DTD (Document Type Definition).

HTML 4.01:

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">
```

XHTML 1.1:

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.1//EN" "http://www.w3.org/TR/xhtml11/DTD/xhtml11.dtd">
```

HTML Tags

- `<html></html>` It tells the browser that everything in between the html tags its going to be html code.
- What that code consist of?
 - A head TAG `<head></head>`: it's the part of the html file that holds information about the web page. It tells the browser how it should handle the page.
 - For ex: `<title>Brany's Personal Site</title>` the title tag, it will tell the browser what is the title of the website.
 - `<meta charset = "utf-8">` meta element, there are a few meta element. This particular meta element is called character set. It set to UTF-8. Meta element gives associate data to your html document. In this case we are telling the browser when it opens the file that all the text in the file is encoded using the UTF-8 encoding system.

How to structure text in HTML

- Body tag `<body></body>`: it's the part of the html file that holds the structure of your web page. All the html tags that display information for the user should be inside the body tag.

For ex: if you type a header 1

```
<h1>Brany Suero</h1>
```

```
<p>Full stack software engineer and coffee lover.</p>
```

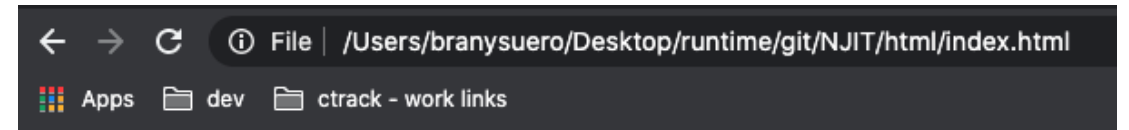
This will be display in your

Personal site

Before the p tag

```
<body>  
→  
</body>
```

```
<body>  
  <h1>Brany Suero</h1>  
</body>
```



Brany Suero

Brany Suero

Full stack Software engineer and coffee lover.

With the p tag

```
<h3>Books and Teaching</h3>
<ul>
  <li>IT 202</li>
  <li>CS 113</li>
</ul>
```

Books and Teaching

1. IT 202
2. CS 113

Books and Teaching

- IT 202
- CS 113

```
<h3>Books and Teaching</h3>
<ol>
  <li>IT 202</li>
  <li>CS 113</li>
</ol>
```

List

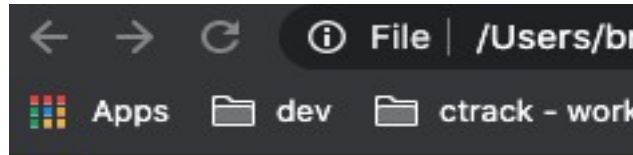
- Bullet List – Unorder List
-
 - First Item
 - Second Item
-
- Numbered List – Order List
-
 - First Item
 - Second Item
-

Image Tag

- It is a self-closing tag.
- ``

```

```



Brany Suero

Second option

```

```



The img tag is looking at the image located in the twitter server. If the server goes down or the twitter company close down, you image will be lost.



You will get something like this – the image is not longer available or hosted.

HTML Attribute



```
<a href="https://...">Hello</a>
```



HTML element

Hypertext Markup Language

Hypertext part- its basically a bunch of text that are linked together.

Anchor Tags

 name of the location or the page

```
<p>Full stack Software engineer and coffee lover. My personal site is <a href="https://www.branysuero.com">Brany's site</a></p>
```

By convention, the link should display in blue color but since I have visited already, it will display as some kind of purple color

Full stack Software engineer and coffee lover. My personal site is [Brany's site](https://www.branysuero.com)

A dark blue, irregular ink splatter shape is centered on a white background. The splatter has a rough, textured edge with some lighter blue and white speckles around it. The text "Intermediate HTML" is written in white, sans-serif font, centered within the dark blue area.

Intermediate HTML

HTML Tables

An **HTML table** consists of one **<table>** element and one or more **<tr>**, **<th>**, and **<td>** elements.

good example

```
<table>
  <tr>
    <td>2010-2013</td>
    <td>Lead Developer at Synchronos</td>
  </tr>
  <tr>
    <td>2013</td>
    <td>Researcher at NJIT</td>
  </tr>
</table>
```

No good example

No intended – looks messy - disorganized

Work Experience

2010-2013 Lead Developer at Synchronos

2013 Researcher at NJIT

```
<h3>Work Experience</h3>
<p>2010-2013 Lead Developer at Synchronos</p>
<p>2013 Researcher at NJIT</p>
```

2010-2013 Lead Developer at Synchronos

2013 Researcher at NJIT

Table header and footer

Date	Work
2010-2013	Lead Developer at Synchronos
2013	Researcher at NJIT
More work experience upon request	

```
<table>
  <thead>
    <tr>
      <th>Date</th>
      <th>Work</th>
    </tr>
  </thead>
  <tbody>
    <tr>
      <td>2010-2013</td>
      <td>Lead Developer at Synchronos</td>
    </tr>
    <tr>
      <td>2013</td>
      <td>Researcher at NJIT</td>
    </tr>
  </tbody>
  <tfoot>
    <tr>
      <td data-cs="2" data-kind="parent">More work experience upon request</td>
      <td data-kind="ghost"></td>
    </tr>
  </tfoot>
</table>
```

Recap

`<table>`

`</table>` will create a simple table. Everything in between the table tag is the actual content.

In order for the table to hold data. We have to create a row using `<tr>` `</tr>` if its nothing between the tag, you won't see nothing in the screen.

`<td></td>` is the table data.

```
<table>
  <tr>
    <td>Angela</td>
    <td>12</td>
  </tr>
  <tr>
    <td>Philipp</td>
    <td>14</td>
  </tr>
</table>
```

Angela	12
Philipp	14

Example

```
<table cellpadding="20">
  <tr>
    <td></td>
    <td><h1>Brany Suero</h1>
    <p><em>Founder and CTO of <Strong>Shadows Properties and Shadows Properties management LLC</Strong>.</em></p>
    <p>Full stack Software engineer and coffee lover. My personal site is <a href="https://www.branysuero.com">Brany's
      site</a></p></td>
    </tr>
  </table>
```



Brany Suero

Founder and CTO of Shadows Properties and Shadows Properties management LLC.

Full stack Software engineer and coffee lover. My personal site is [Brany's site](https://www.branysuero.com)

Skill Section

```
<h3>Skills</h3>
<table>
  <tbody>
    <tr>
      <td>Java Development</td>
      <td>★★★★★</td>
    </tr>
    <tr>
      <td>Python Development</td>
      <td>★★★★★</td>
    </tr>
    <tr>
      <td>Web Development</td>
      <td>★★★★★</td>
    </tr>
  </tbody>
</table>
```

Skills

Java Development ★★★★★

Python Development ★★★★★

Web Development ★★★★★

Challenge

Skills

Bootstrap Framework



MVC Pattern



CSS(3)



Method Factory Pattern



HTML(5)



Object Orientated Programming



JSON



SASS / SCSS



MySQL



SEO



DHTML



Scrum



Forms

- An HTML form is used to collect user input. The user input is most often sent to a server for processing.

My Contact Details



My Fictional Address

077263718463

myemail@gmail.com

Your Name:

Your Email:

Your Message:

Hey there!

My Contact Details

My Fictional Address

2342323423

myemail@gmail.com

[home page](#)

forms

Forms are structured
by different tags.

Your Name:

Your Password:

☐

Do you want to sign up to the email list? ☐

[home page](#)

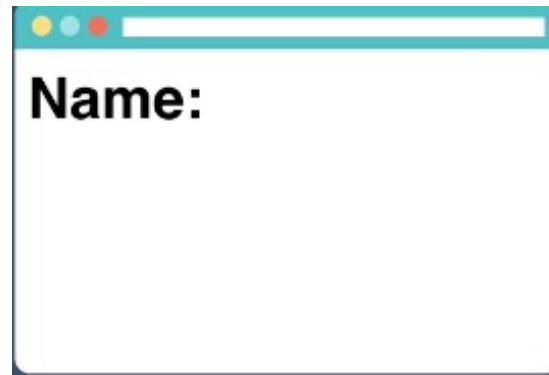
Form tag
<form></form>

Label tag
<label></label>

Input tag
<input>

```
<form action="">
  <label for="">Your Name:</label>
  <input type="text" value="" placeholder="Your name">
  <br>
  <label for="">Your Password:</label>
  <input type="password" value="" placeholder="Your password">
  <br>
  <input type="checkbox">
  <br>
  <label for="">Do you want to sign up to the email list?</label>
  <input type="checkbox" name="" id="">
  <br>
  <input type="button" value="Submit">
</form>
```

Recap



`<form>`

`<label>Name:</label>`

`<input type="text">`

`<input type="submit">`

`</form>`

Inputs type

```
<input type="text">
```

```
<input type="submit">
```

```
<input type="file">
```

```
<input type="date">
```

```
<input type="radio">
```

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

Static img to show what it looks like

Static image showing various HTML input types:

- Text input field
- Submit button
- File upload button (Choose file) and status (No file chosen)
- Date picker (April 2017)
- Radio button
- Range slider

Publish your Website



Right now, you have your website locally so that means nobody would be able to see it, just you.



If you want to show your website to the world, you will have to host it. There are many websites that offers host services such as godaddy etc.



But you have a free solution using github.

In your website repo, please click the settings tap.

< > **Code** ⓘ Issues 🔗 Pull requests ⏮ Actions 📁 Projects 📖 Wiki 🛡 Security 📈 Insights ⚙ Settings

🔗 master ▼

🔗 1 branch

🏷 0 tags

Go to file

Add file ▼

📄 Code ▼

GitHub Pages

[GitHub Pages](#) is designed to host your personal, organization, or project pages from a GitHub repository.

Source

GitHub Pages is currently disabled. Select a source below to enable GitHub Pages for this repository. [Learn more.](#)

None ▼

Save

Select branch

×

Select branch

master

✓ None

Scroll down and search for github pages. Set it up to master and click save. Please wait until everything gets process.

ll theme using the gh-pages branch. [Learn more.](#)