

Frontend

HTML

What's HTML?

Hyper Text Markup Language



HTML basics

Tags Attributes



Tags

```
I'm a paragraph
<div>I'm a meaningless container</div>
<a href="http://google.com">I'm a link</a>
```

Tags

doctype, html, head, title, base, link, meta, style, script, noscript, body, article, nav, aside, section, header, footer, h1-h6, main, address, p, hr, pre, blockquote, ol, ul, li, dl, dt, dd, figure, figcaption, div, table, caption, thead, tbody, tfoot, tr, th, td, col, colgroup, form, fieldset, legend, label, input, button, select, datalist, optgroup, option, textarea, keygen, output, progress, meter, details, summary, command, menu, del, ins, img, iframe, embed, object, param, video, audio, source, canvas, track, map, area, a, em, strong, i, b, u, s, small, abbr, q, cite, dfn, sub, sup, time, code, kbd, samp, var, mark, bdi, bdo, ruby, rt, rp, span, br, wbr ...

Attributes

```
<img src="images/logo.png" alt="Company">
<h1 id="header">Hello, world!</h1>
<div class="container">
     I can be styled using CSS!
</div>
```

Tags + Attributes

- Inject assets like images, css, javascript...
- Wrap and structure content
- Add meaning to the wrapped content
- Allow CSS styling
- Communicates browsers explicit features of your page.



Comments

```
<!-- I'm an HTML comment -->
```

<!-- Use me with caution -->

Basic HTML file

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8">
    <title>Page title</title>
  </head>
  <body>
    <img src="doge.jpg" alt="Doge">
    <h1 class="hello-world">Hello, world!</h1>
  </body>
</html>
```

<!DOCTYPE html>

Enforce standards mode and more consistent rendering in every browser possible.



```
<html lang="en">
    <head>
        <!-- Non graphically represented stuff -->
        </head>
        <body>
            <!-- Your awesome content -->
        </body>
        </html>
```

The <a href="https://www.new.color.c



A lang attribute on the root html element defines the document language. Mostly for accessibility reasons.

Full list of HTML languages.



Ensure proper rendering of your content by declaring an explicit character encoding.



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

Put this inside your <head>, it'll be useful in a while.



```
<img src="doge.jpg" alt="Doge">
<h1 class="hello-world">Hello, world!</h1>
```

The tag represents an image and the <h1> is a header of level 1 (there's six levels of headers).



CodePen

Frontend playground

Check it out



Basic HTML file

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8">
    <title>Page title</title>
  </head>
  <body>
    <img src="doge.jpg" alt="Doge">
    <h1 class="hello-world">Hello, world!</h1>
  </body>
</html>
```

Emmet

Front-end code helper for Sublime Text

Get it



Exercise

Create a basic skeleton HTML file:

- 1. Name it so it's accessible from the root domain.
- Place the text 'Hello world!' inside some element of your choice.
- 3. Congrats you're a front-end developer.



HTML forms



Basic HTML form

Exercise

Create a login form, it should include:

- 1. An email or username field.
- 2. A password field.
- 3. A checkbox to remember my credentials.
- 4. A button to log in.



HTML best practices



```
<!-- External CSS -->
k rel="stylesheet" href="style.css">

<!-- In-document CSS -->

<style>

/* ... */

</style>
```

The CSS is included inside the <head> tag.



JavaScript includes

```
<!-- External JavaScript --> <script src="app.js"></script>
```

The JS files should be appended just before the closing of the </body> tag.



Use double quotes on attributes

```
<!-- Don't, just don't -->
<input type='file' name='file'>
<!-- Much better -->
<input type="file" name="file">
```

It might mess with your text editor's capability to highlight attribute values.



Avoid the trailing slash in self-closing elements

```
<!-- Do -->
<img src="image.jpg">
<!-- Don't -->
<img src="image.jpg" />
```

The HTML5 specification says they're optional.



Boolean attributes

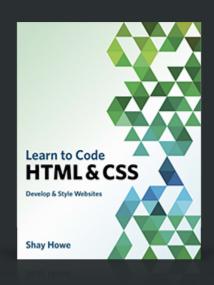
The absence of the boolean attribute already represents the value as false, it's presence represents the true value.



Reduce markup

Avoid superfluous parent elements when writing HTML. Usually this requires iteration and refactoring, but produces less HTML, which is good for maintenance.





Learn to Code - HTML & CSS



Exercise

Create the markup for an article with a comment form, it should include:

- Different containers for the article content and the comment form
- Content: A title, a subtitle, a date, an author (linked to it's personal Twitter account), a list, some placeholder text paragraphs, a picture of Nicolas Cage on a muffin, in space.
- **3. Comment form:** A name field, an email field, a textarea, a 'remember my data' option and a submit button.

