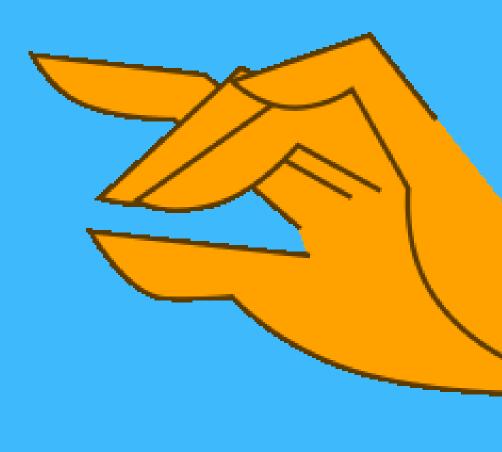
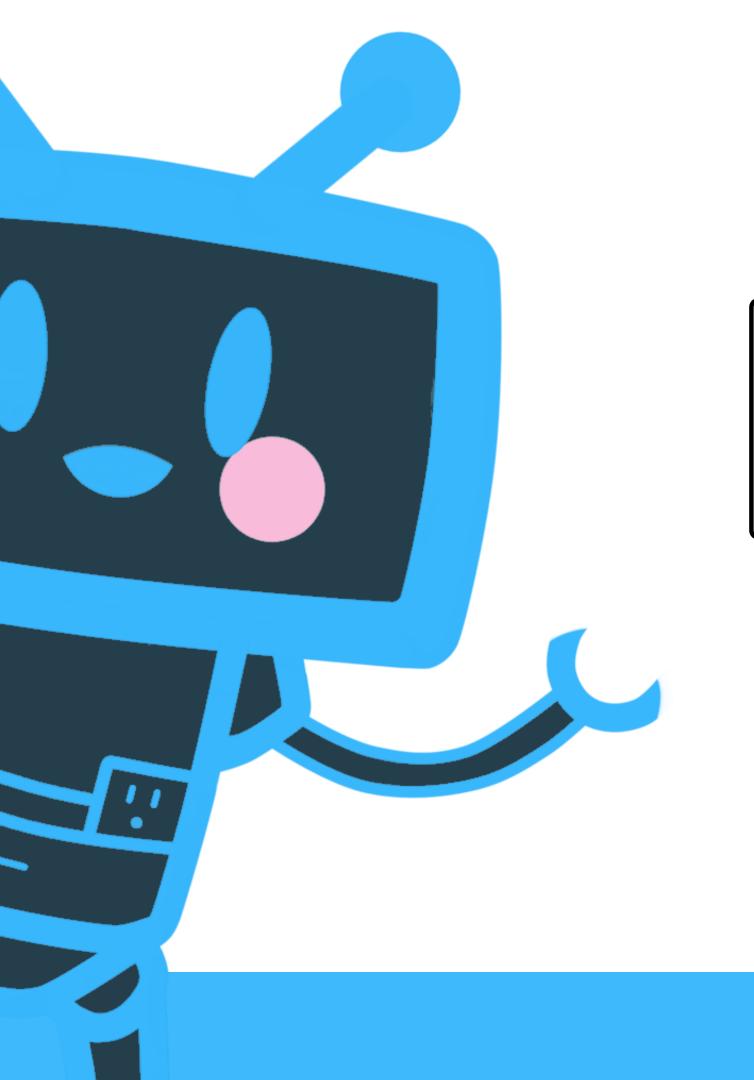
WEBBBEVIOI

INTRO TO HTML/CSS: CREATE A PERSONAL WEBSITE!







What is Ada's Team?

Dedicated to promoting diversity in STEM with an emphasis in technology.

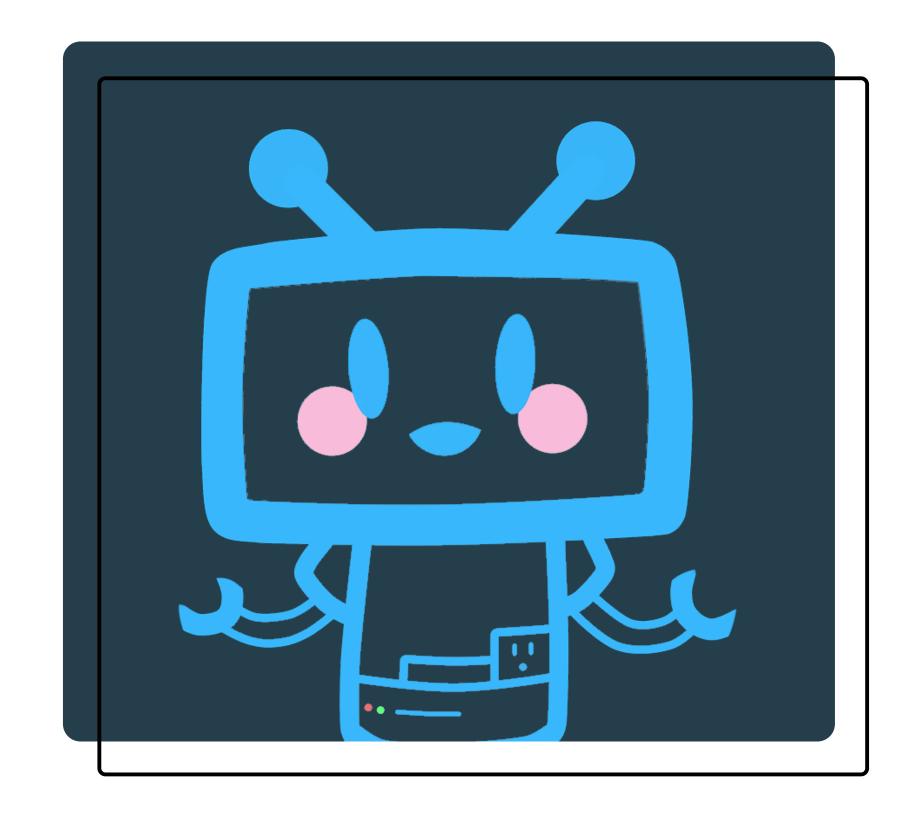


We are a family.

We embrace, celebrate, and empower you to reach your full potential by fostering a safe, supportive space & many opportunities to advance your career.

Ada's Team provides...

- Free tutoring
- Technical Workshops
- Industry Events
- Conferences



Agenda

Web Dev Overview

Intro to HTML

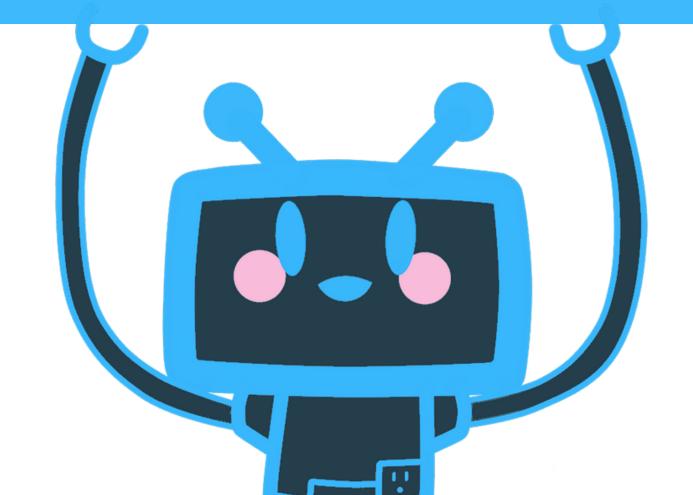
Let's Build!

Intro to CSS

Let's Style!

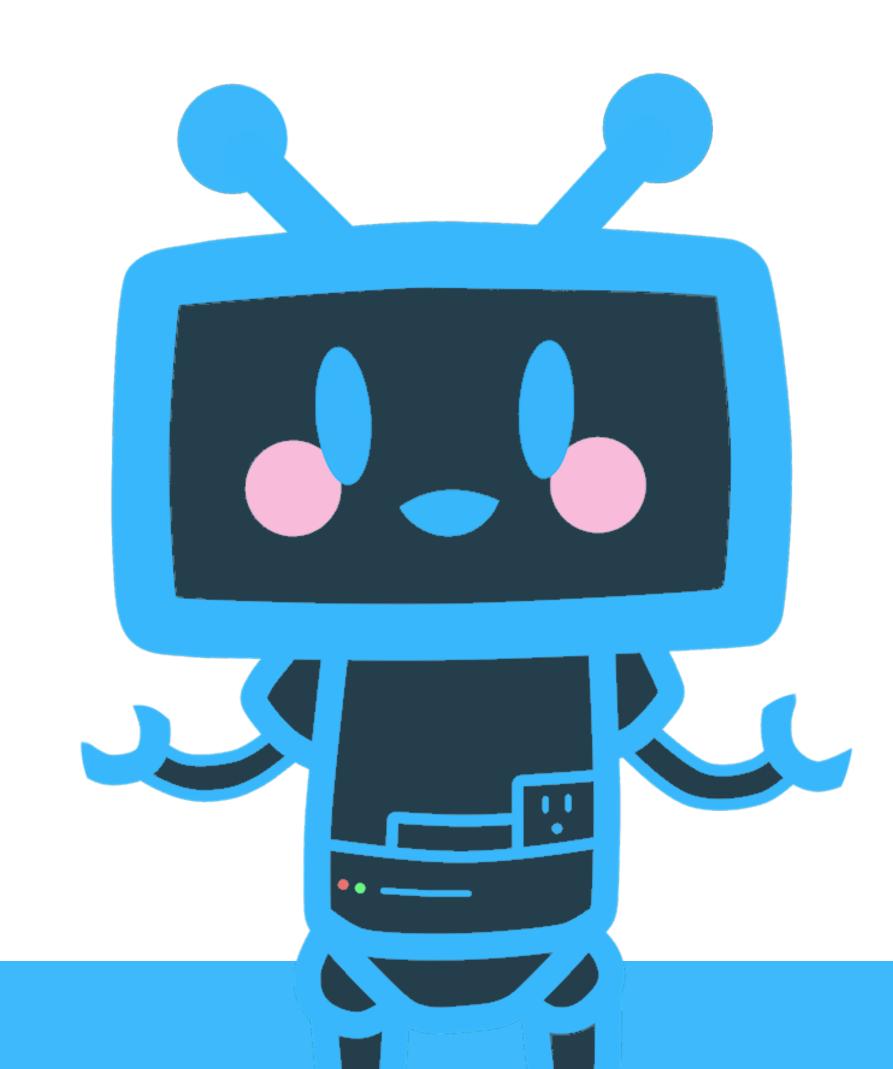
What next?

What is web devlopment?



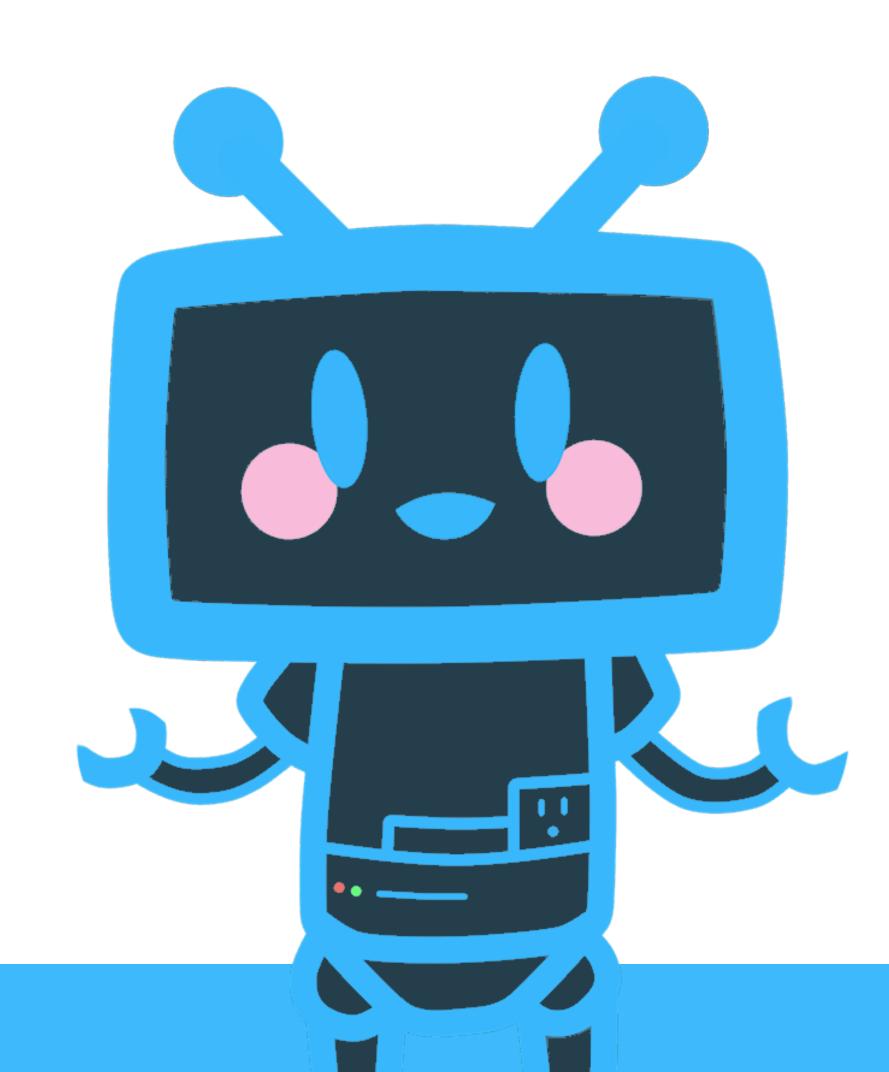
What is web development?

- Wikipedia: Work involved in developing a website for the Internet (World Wide Web) or an intranet (a private network).
- Front-end: Presentation layer
- Back-end: Data access layer



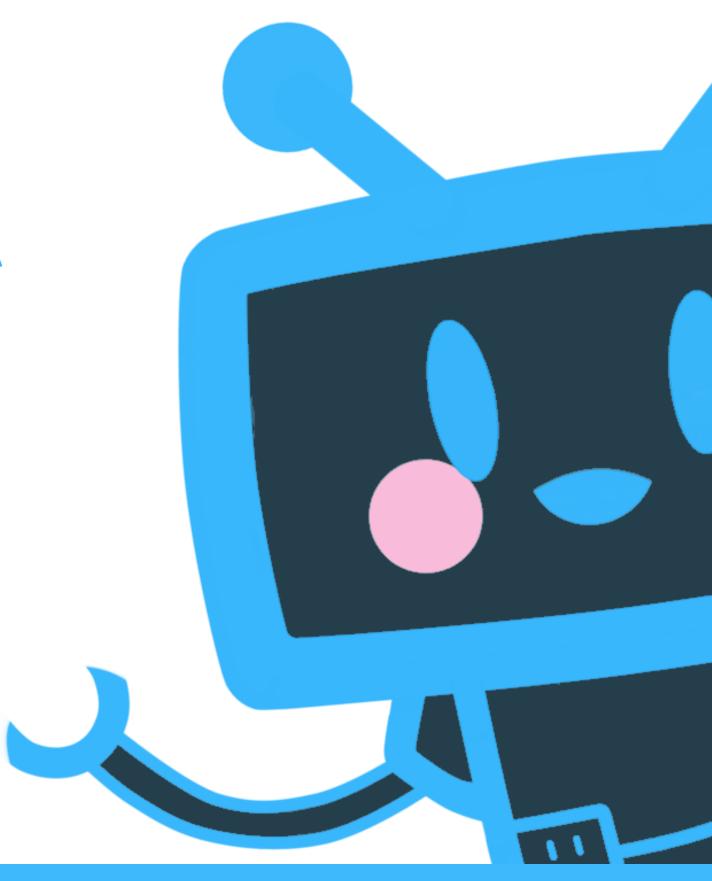
What is web development?

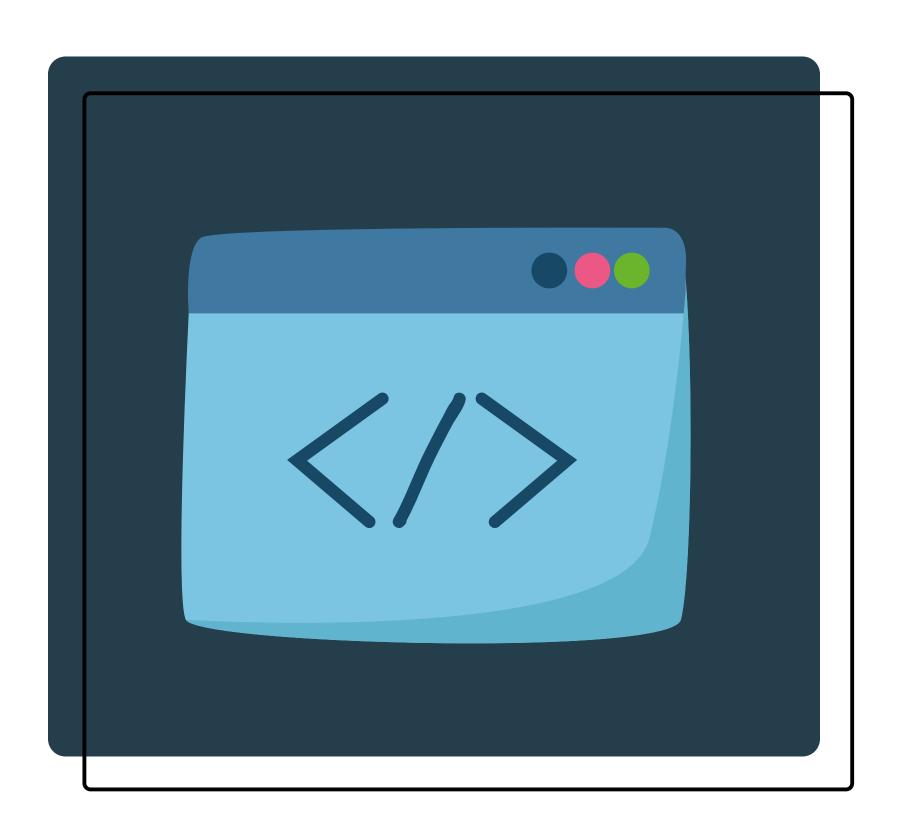
- Wikipedia: Work involved in developing a website for the Internet (World Wide Web) or an intranet (a private network).
- Front-end: Presentation layer
- Back-end: Data access layer



Front-End Development

- What the user sees and interacts with
- Languages: HTML, CSS, and JavaScript
- HTML: HyperText Markup Language
- CSS: Cascading Style Sheets

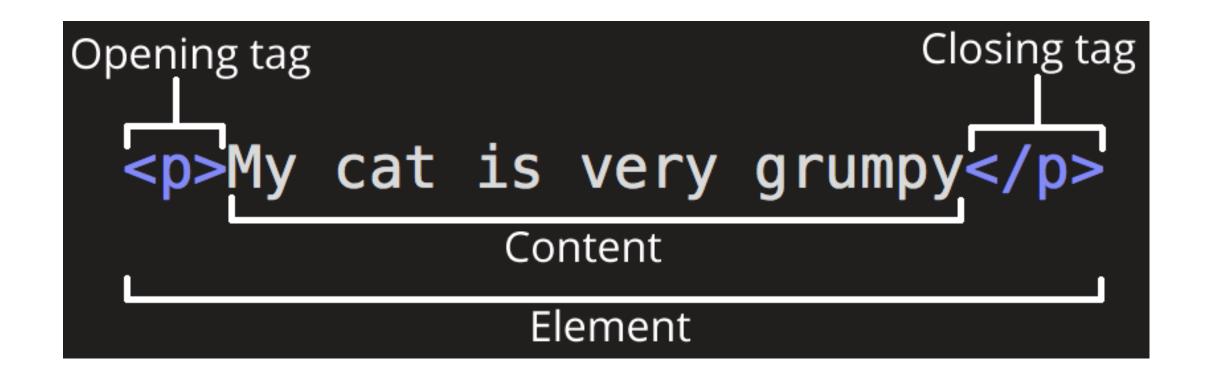






What is HTML?

- Defines WHAT is on the page
- Code used to structure a webpage and its content
- Consists of a series of elements, which you use to enclose, or wrap, different parts of the content to make it appear or act a certain way



Element

 The opening tag, the closing tag, and the content together comprise the element.

```
Opening tag

My cat is very grumpy
Content

Element

Closing tag

Closing tag

Closing tag

Closing tag

Closing tag

Element
```

Opening Tag

- Name of the element, wrapped in angle brackets.
- States where the element begins or starts to take effect.

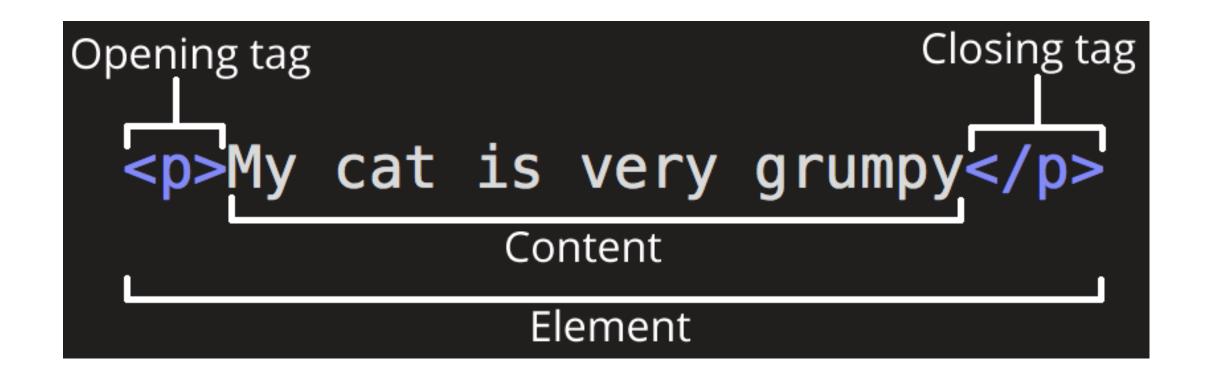
```
Opening tag

My cat is very grumpy
Content

Element
```

Closing Tag

- Same as the opening tag, except that it includes a forward slash before the element name
- States where the element ends



Content

 This is the content of the element, which in this case, is just text.

Element Attributes

```
Attribute
class="editor-note">My cat is very grumpy
```

- Attributes contain extra information about the element that you don't want to appear in the actual content
- Here, <u>class</u> is the attribute name and <u>editor-note</u> is the attribute value

Element Attributes



Rules:

- 1.A space between it and the element name (or the previous attribute).
- 2. The attribute name, followed by an equal sign.
- 3. The attribute value, wrapped by opening + closing quotes.

Element Attributes

```
Attribute
class="editor-note">My cat is very grumpy
```

- Class attribute allows you to give the element a non-unique identifier
- Can be used to target it (and any other elements with the same class value) with style information and other things
- Will become important with CSS!

Nesting Elements

```
My cat is <strong>very</strong> grumpy.
```

- Nesting: putting elements inside other elements
- The tag empasizes the word "very".

Nesting Elements

```
My cat is <strong>very</strong> grumpy.
```

- Nesting: putting elements inside other elements
- The tag empasizes the word "very".

```
My cat is <strong>very grumpy.</strong>
```

Be sure to nest properly!

Empty Elements

```
<img src="images/firefox-icon.png" alt="My test image">
```

- Sometimes, elements don't have content
- Your tag and/or attributes encapsulate the desired behaviour
- Common empty tags:
 - img an image
 - br − a line break
- These tags are self-closing you don't need a closing tag

```
<!DOCTYPE html>
<html>
    <head>
        <meta charset="utf-8">
            <title>My test page</title>
        </head>
        <body>
            <img src="images/firefox-icon.png" alt="My test image">
            </body>
        </html>
```

Doctype:

Used to act as links to a set of rules. Now, basically just needed to make sure your document behaves correctly.

```
<!DOCTYPE html>
<html>
    <head>
        <meta charset="utf-8">
            <title>My test page</title>
        </head>
        <body>
            <img src="images/firefox-icon.png" alt="My test image">
            </body>
        </html>
```

<html> element:

Element that wraps all the content on the page.

AKA root element.

```
<!DOCTYPE html>
<html>
    <head>
        <meta charset="utf-8">
            <title>My test page</title>
        </head>
        <body>
            <img src="images/firefox-icon.png" alt="My test image">
            </body>
        </html>
```

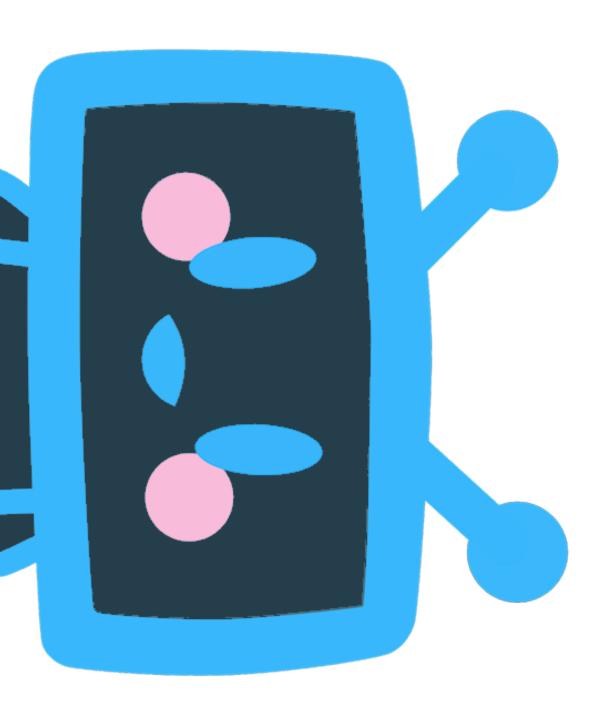
<head> element:

Contains all the noncontent information. Things like the page title, keywords, metadata, CSS links, external libraries...

```
<!DOCTYPE html>
<html>
    <head>
        <meta charset="utf-8">
            <title>My test page</title>
        </head>
        <body>
            <img src="images/firefox-icon.png" alt="My test image">
            </body>
        </html>
```


 dy> element:

Contains all the content you want to display on your page. Text, images, videos, games, playable audio tracks, ...



OK, enough talk...

Let's start building!



CSS



What is CSS?

- Defines HOW the page looks
- Cascading: children inherit parents' styling
- **Style**: refer to properties such as layout, position, color, font, background, padding, borders, ...
- Sheet: apply to a whole page

Anatomy of a CSS Ruleset

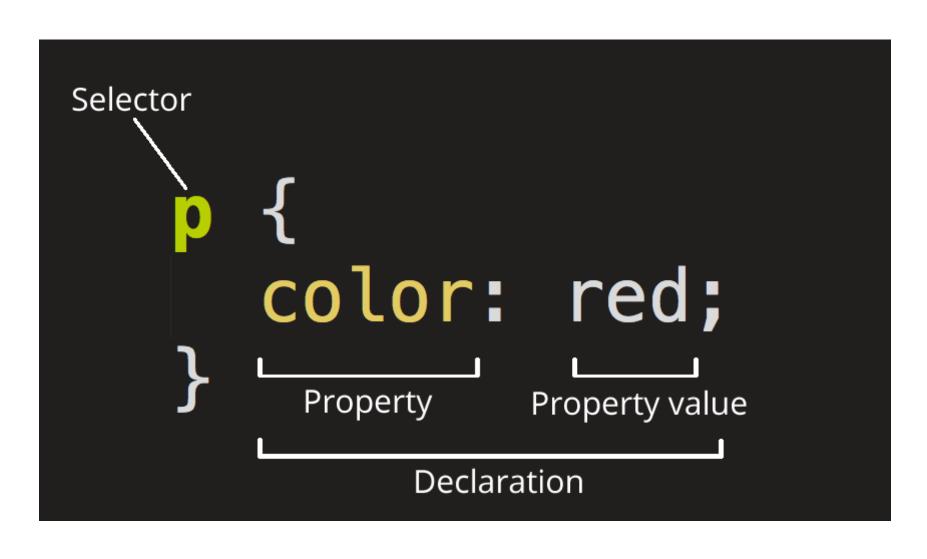
```
Selector

{
    color: red;
    Property Property value
    Declaration
```

Selector: Defines element(s) to be styled.

- Element: eg. p, img,...
- Class: .class-name
- ID: #id-name
- Attribute: img[src]
- Pseudo-class: img:hover

Anatomy of a CSS Ruleset



Declaration: specifies which of the element's properties you want to style

Property: specifies which property to affect in the rule

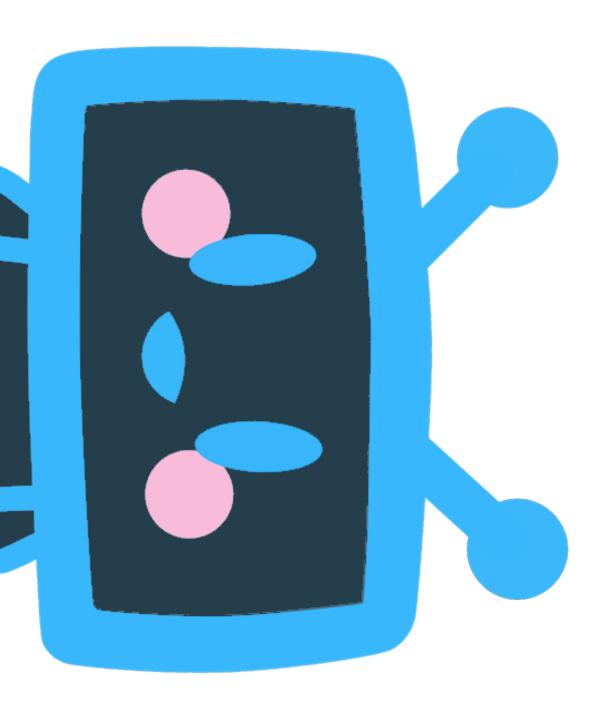
Property value: chooses one out of many possible appearances

Anatomy of a CSS Ruleset

```
p {
  color: red;
  width: 500px;
  border: 1px solid black;
}
```

```
p, li, h1 {
   color: red;
}
```

- Each ruleset must be wrapped in curly braces ({})
- Must use a colon (:) to separate the property from its value or values
- Must use a semicolon (;) to separate each declaration from the next one
- Can have more than on selector



WOW! Neat...

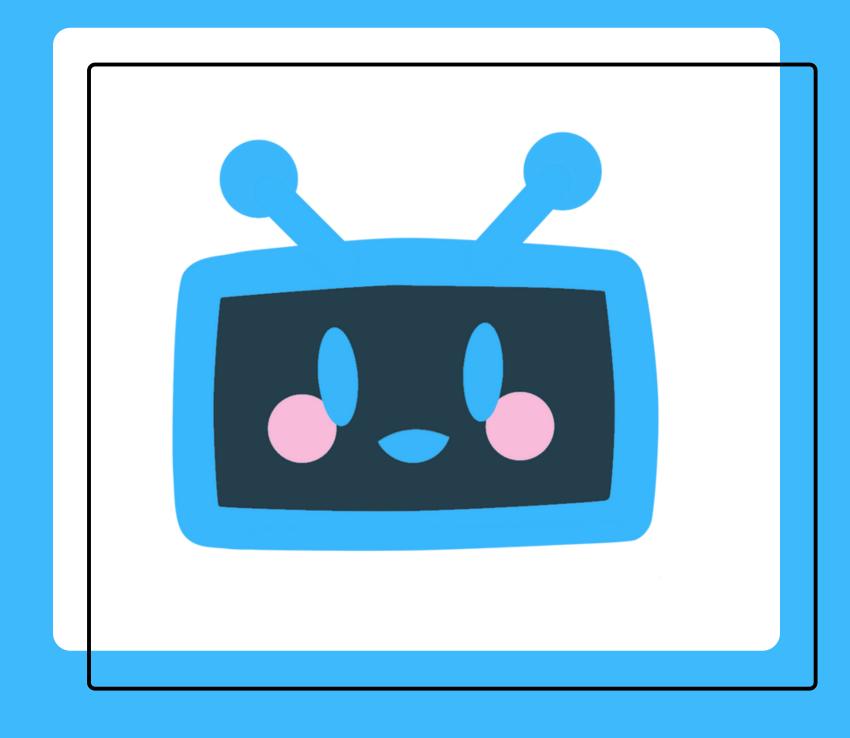
Let's apply styling!



roadmap.sh/frontend

What next?





Let's Connect!

Email adasteam@ualberta.ca

Website www.adasteam.ca

Sources

- Wikipedia: https://en.wikipedia.org/wiki/Web_development
- HTML Basics: https://developer.mozilla.org/en-
 US/docs/Learn/Getting_started_with_the_web/HTML_basics