Starting soon!

# Intro to CSS

JFSS CS Club 2022/23
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# Recap from last week

## What is HTML?

HyperText Markup Language. Used to add structure to the website

## What are Elements?

Type of HTML document components. Consists of start tag, end tag and the content

## Some examples of Elements?

<html></html>, <h1></h1>, , <body></body>, <img/>

# Recap from last week

## What are Attributes?

Provides additional information about Elements

## Some examples of Attributes?

```
href="https://www.w3schools.com"
```

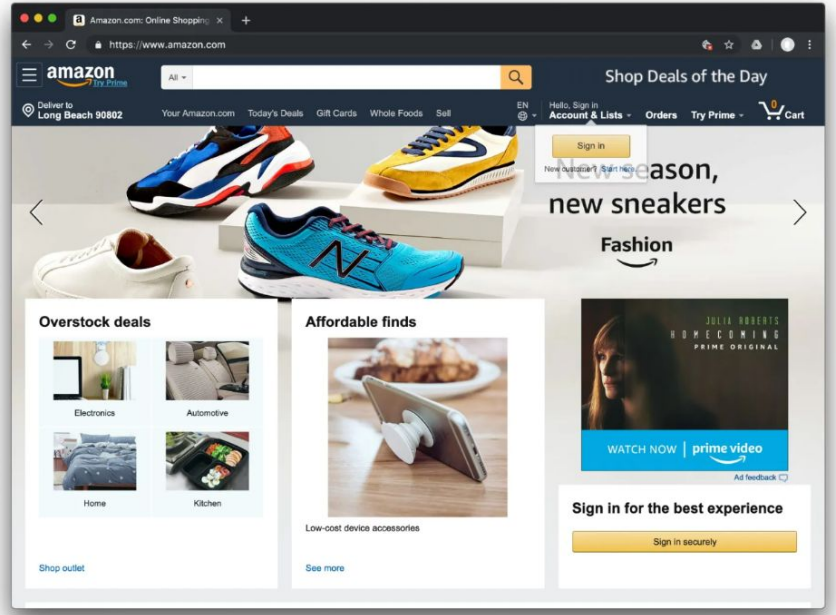
```
width="500" height="600"
```

```
src="img_girl.jpg"
```

```
style="color:red;"
```

# 1. CSS

Cascading Style Sheets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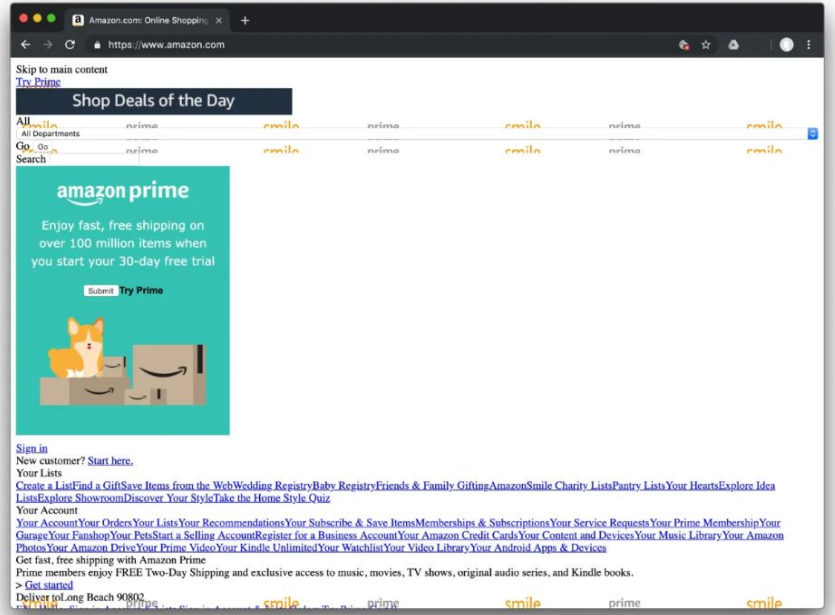
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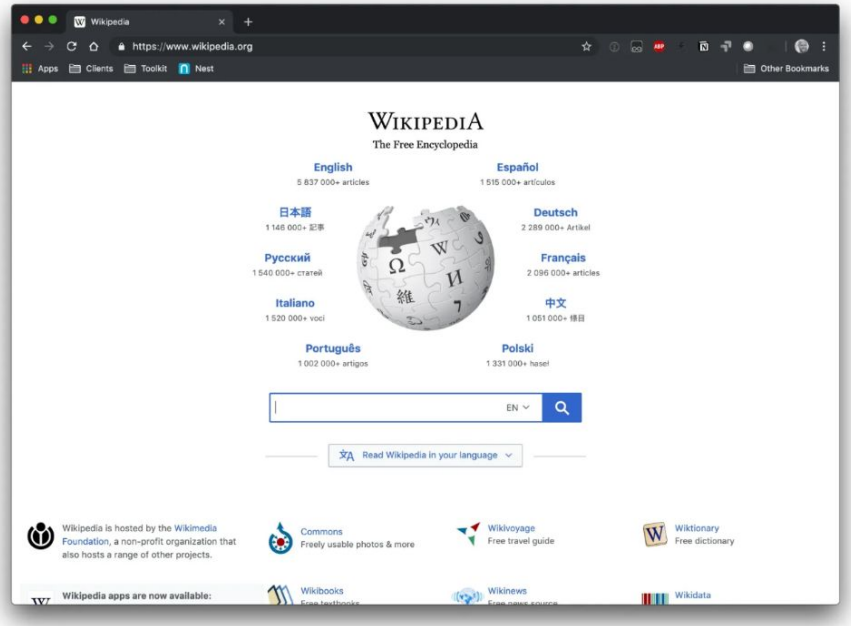
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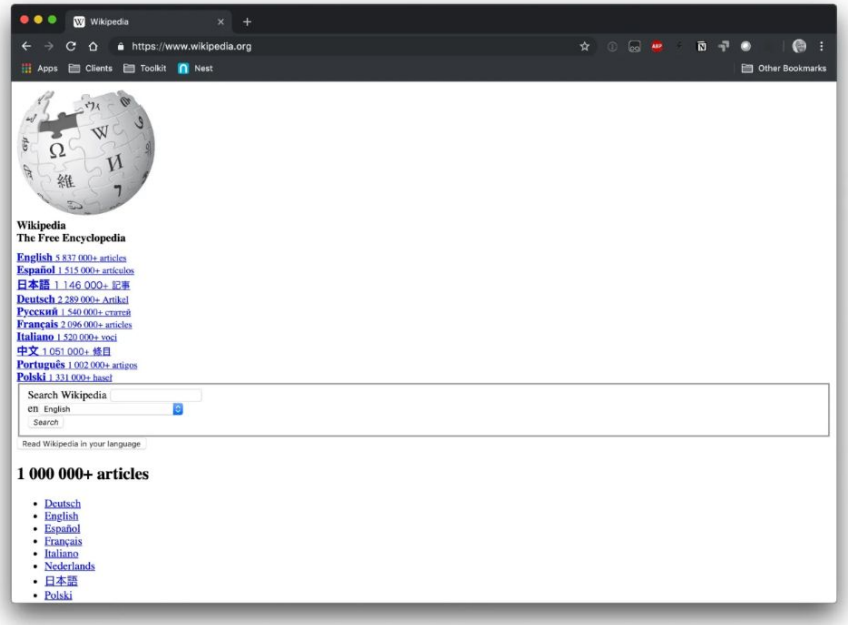
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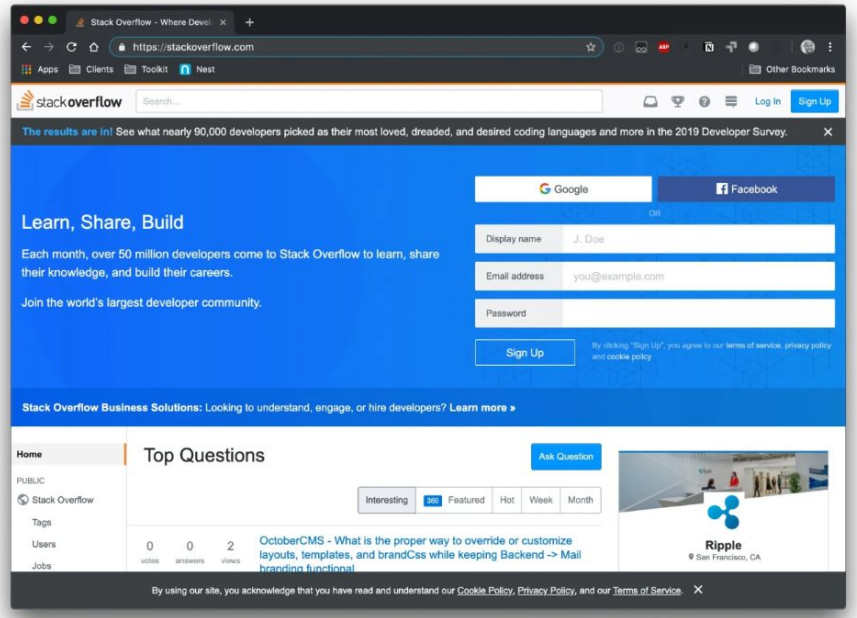
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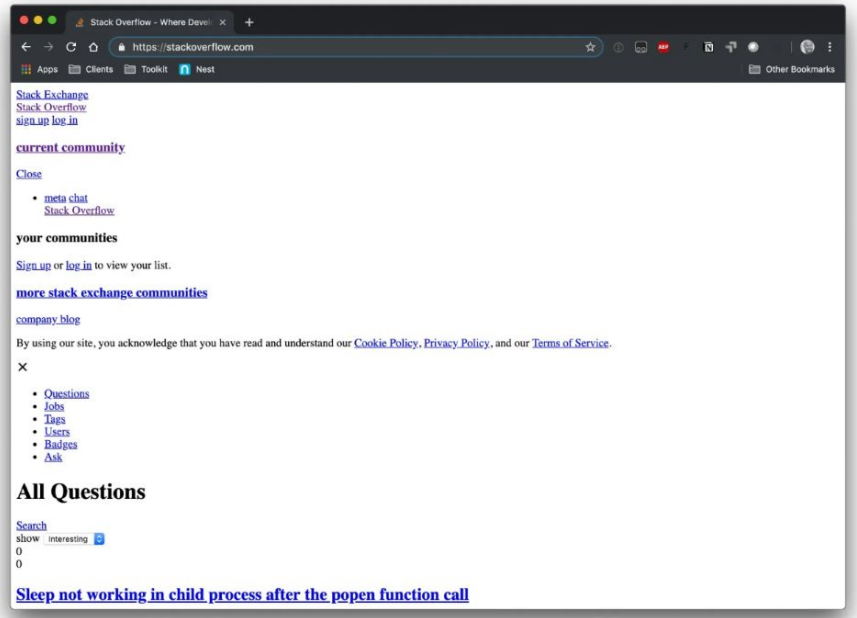
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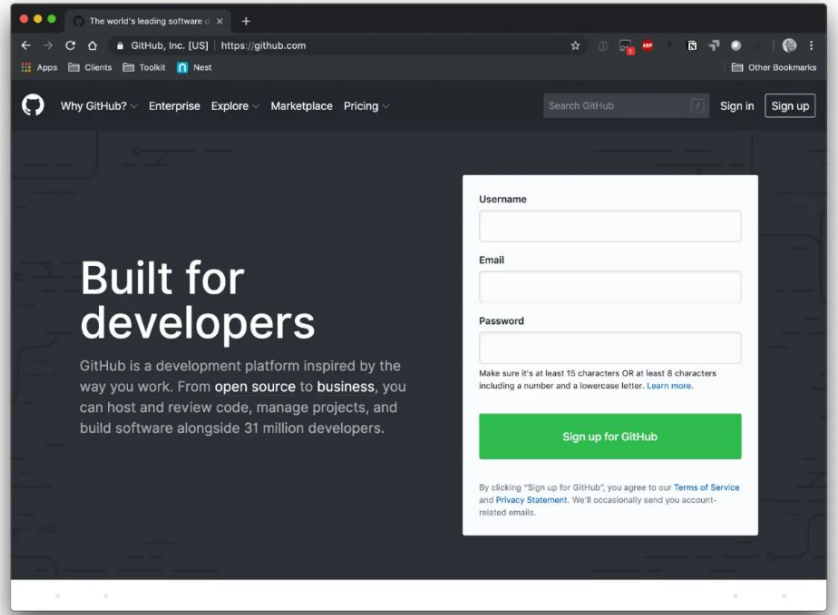
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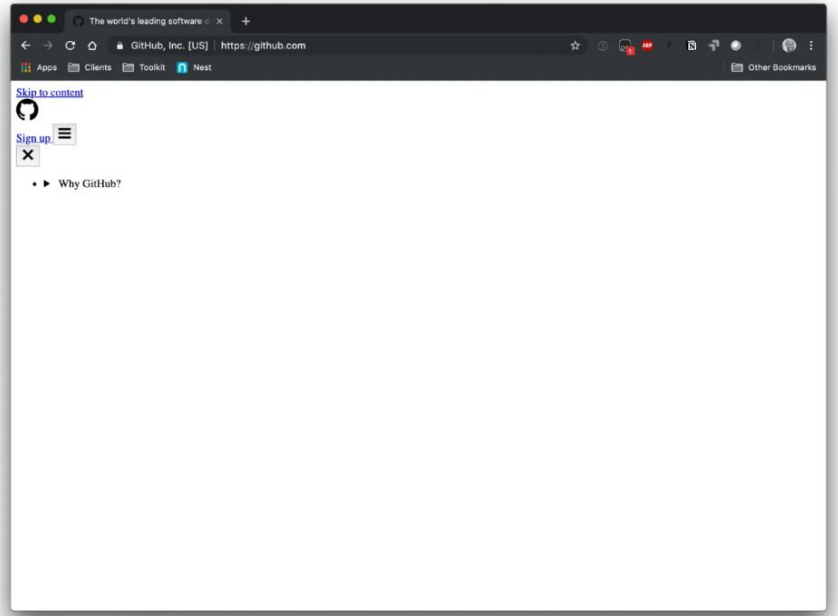
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# More about CSS

- Styles the web page (design, layout and ability to be responsive)

**3 ways to style using CSS**

- Inline Styles - in the element as an attribute
- Internal Styles - Using <styles></styles>
- External Styles - link web page to the external .css file

## Inline CSS

```
<p style="color: blue;">This is a paragraph.</p>
```

## Internal CSS

```
<head>
  <style type = text/css>
    body {background-color: blue;}
    p { color: yellow;}
  </style>
</head>
```

## External CSS

```
<head>
  <link rel="stylesheet" type="text/css" href="style.css">
</head>
```

# CSS Measurement Units

**Absolute Lengths**

| | |
|---|---|
| **cm** | centimeters |
| mm | millimeters |
| **in** | inches (1in = 96px = 2.54cm) |
| **px** | pixels (1px = 1/96th of 1in) |

**Relative Lengths**

| | |
|---|---|
| **em** | Relative to the font-size of the element (2em means 2 times the size of the current font) |
| ex | Relative to the x-height of the current font (rarely used) |
| ch | Relative to the width of the "0" (zero) |
| **rem** | Relative to font-size of the root element |
| **vw** | Relative to 1% of the width of the viewport* |
| **vh** | Relative to 1% of the height of the viewport* |
| vmin | Relative to 1% of viewport's* smaller dimension |
| vmax | Relative to 1% of viewport's* larger dimension |
| **%** | Relative to the parent element |

# CSS Selectors

- **Universal (CSS: uses * before element)**
  - Affects All elements on HTML page
- **Element (CSS: elements only)**
  - Affects a specific type of element
- **Class (CSS: uses . before class)**
  - Affects elements with a specific class
- **Id (CSS: uses # before id)**
  - Affects element with the specific Id

# Main CSS Properties

# Some of the common CSS properties

```css
/* Hex Value */
color: #000000;

/* RGBA */
color: rgba(0, 0, 0, 0.3);

/* Named Colors */
color: black;
```

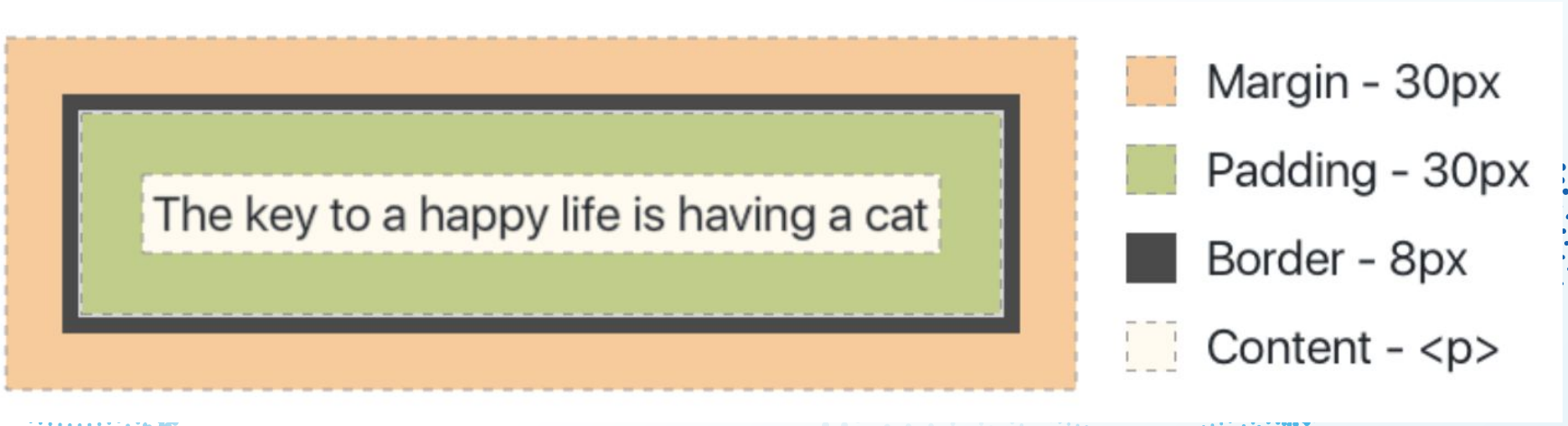
```css
h1 {
  background-color: #FFB300;
}
```

```css
p {
  background-color: blue;
  height: 250px;
  width: 500px;
}
```

```css
a {
  font-size: 48px;
}
```

```css
img {
  border: 5px solid #FF6DBA;
}
```

# More on common CSS properties



# More on common CSS properties

```
padding: 5px; /*all sides*/
padding: 5px 10px; /*vertical, horizontal*/
padding: 5px 10px 7px; /*top, horizontal, bottom*/
```

padding-top
padding-left
padding-bottom
padding-right

margin-top
margin-left
margin-bottom
margin-right

# Let’s get started!

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**bit.ly/3ELOkxu**