



# Front-End Web Development



# HTML

# Skeleton

```
<!DOCTYPE html>
<html>
  <head>
    <title>Browser Tab Text</title>
    <!-- Metadata, CSS, etc. -->
  </head>
  <body>
    <!-- Content displayed in browser -->

    <!-- JavaScript -->
  </body>
</html>
```

# Pop Quiz: What tags do you know?

<http://jsbin.com/?html,output>



[developer.mozilla.org](https://developer.mozilla.org)



# CSS

In a nutshell

In your `<head />`,

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

# Selectors

element

**#id**

.class



# Pseudo-classes

**a: hover**

# Properties

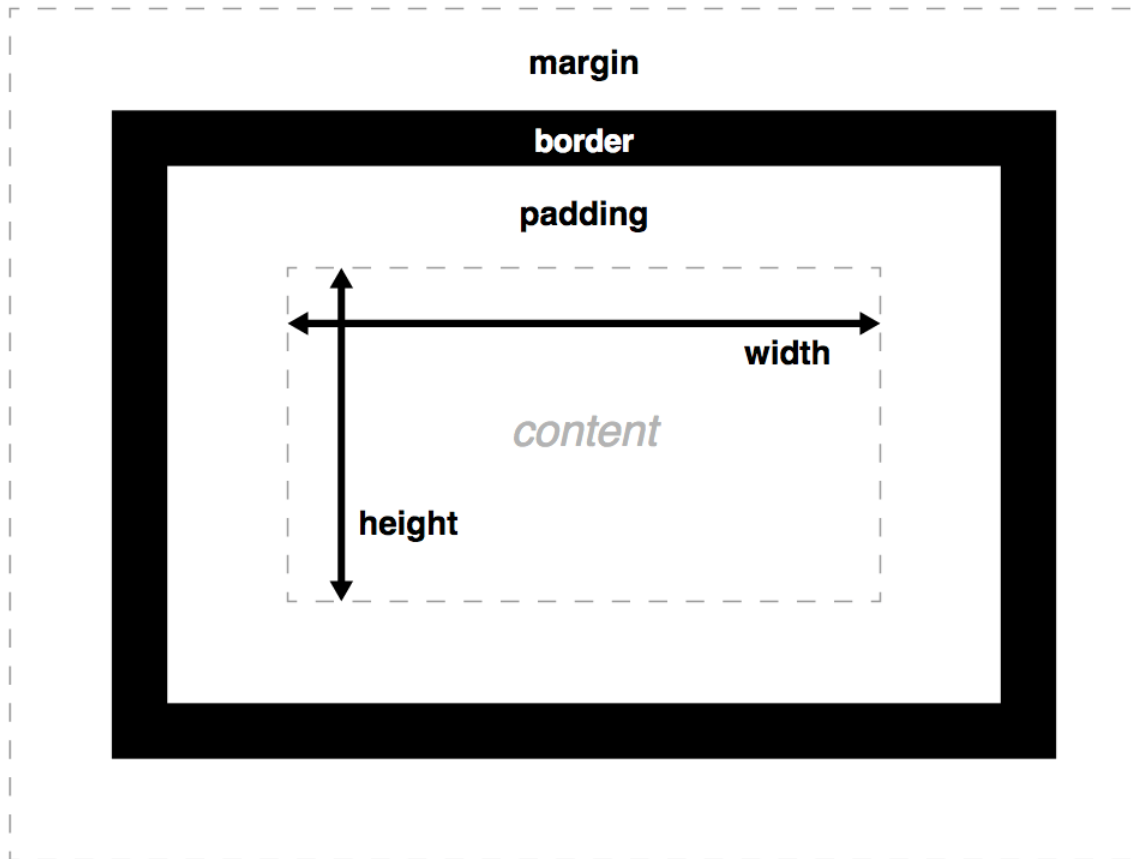
```
selector {  
  property: value;  
  property2: value2;  
  /* etc. */  
}
```

Example:

```
.btn-primary {  
  color: blue;  
  box-shadow: 2px 2px 7px 1px #1C6EA4;  
}
```

```
<button class="btn btn-primary">Save</button>
```

# Box model



[developer.mozilla.org/en-US/docs/Learn/CSS/Introduction\\_to\\_CSS/Box\\_model](https://developer.mozilla.org/en-US/docs/Learn/CSS/Introduction_to_CSS/Box_model)

# Media queries

```
body {  
  padding: 0 20px;  
}  
  
@media (max-width: 480px) {  
  body {  
    padding: 0;  
  }  
}
```



# Flexbox

[flexboxfroggy.com](https://flexboxfroggy.com)



# Bootstrap

[getbootstrap.com/docs/4.1](https://getbootstrap.com/docs/4.1)

# JavaScript

Adding **dynamic** behavior *after* page load.



DOM



# Selecting elements

```
const nodes = document.querySelectorAll(SELECTOR);
```

Then:

- Read information
- Update / Insert HTML
- Toggle CSS classes / animation

# Event listeners

```
<button id="buy">Buy!</button>
```

```
const button = document.getElementById("buy");  
button.addEventListener('click', (event) => {  
  // Event callback  
});
```

# AJAX

```
const data = { name: "a name", email: "an@email.com" };
fetch(url, {
  method: 'POST',
  headers: { "Content-Type": "application/json" },
  body: JSON.stringify(data)
})
.then(response => response.json())
.then((data) => {
  console.log(data);
});
```



[lewagon.com/blog/from-jquery-to-dom-and-es6](http://lewagon.com/blog/from-jquery-to-dom-and-es6)

# Keywords & Trends

# Mobile First

- SEO
- Responsive
- Adaptive



# SPA

Single Page Application

# JavaScript Frameworks

- Angular
- Ember
- **React**
- Vue

[medium.com/@ericclemmons/javascript-fatigue-48d4011b6fc4](https://medium.com/@ericclemmons/javascript-fatigue-48d4011b6fc4)





# PWA

Progressive Web Apps

# Going Further

[github.com/humiaozuzu/awesome-flask](https://github.com/humiaozuzu/awesome-flask)



Happy Web-ing!