

COMP6080 WK2 Tutorial

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Agenda

- Assignment 1 overview
- Week 1 overview
- JavaScript
- Demo
- Q&A

Assignment 1 (pictocode)

is released 🎉🎊

Helpful resources for Ass01

- [COMP6080 Style Guide](#)
- [Resources from last week's slides](#)

Any questions 🙄

Last week we covered...

- HTML/CSS
- Devtools and how to access it / translate output
- Flexboxes
- Box model (padding, margin, border)
- Media queries

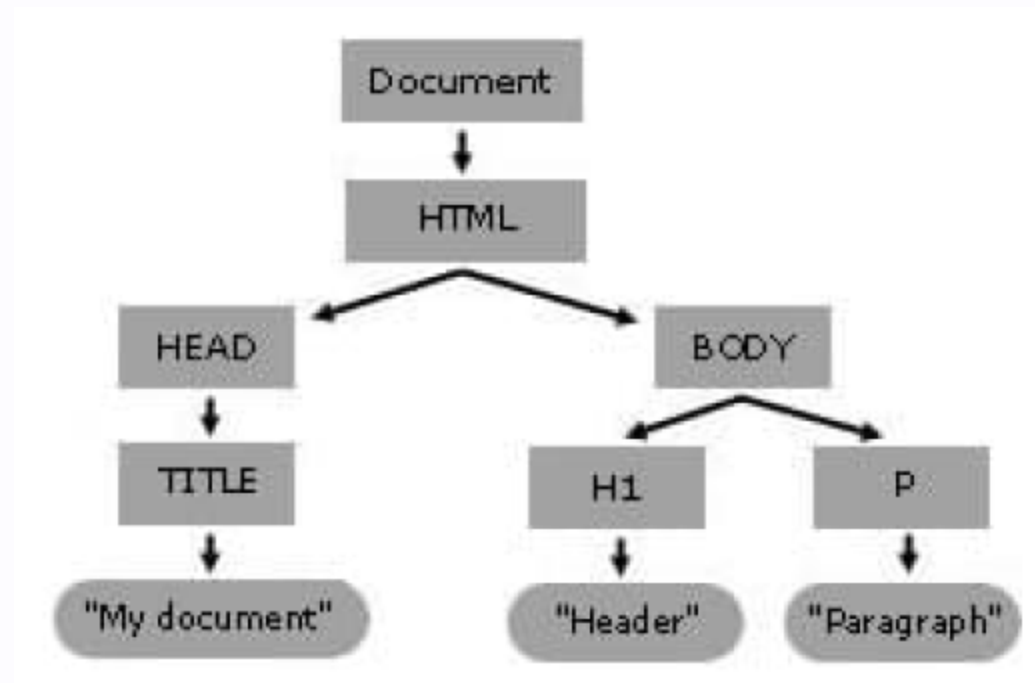
Onto JavaScript...

JavaScript (JS)

Adds functionality to your webpage (i.e. makes your webpage dynamic)

DOM

DOM: a data representation of the objects that comprise the structure and content of a document on the web



Adding interactivity to the DOM

- We can add events to particular element id / class via event listeners
- Example: clicking a button changes the background colour of the webpage

Event listeners (aka event handler)

- Event listener: a block of code that will runs when the event is "fired"
- Let's see this in action

```
<button onclick="changeColor(this);" id="button">Click me</button>

<script>
function changeColor(button) {
    button.style.backgroundColor = 'red';
}
</script>
```

We can one up that...

```
// document.[instance method("id")]
const button = document.getElementById("button");

function changeBackground() {
  // dereferencing background colour of the page
  document.body.style.backgroundColor = white;
}

// [document id].[handler]("event", "underlying js logic");
button.addEventListener("click", changeBackground);
```

Common events

- `change` : an HTML element has been changed
- `click` : the user clicks an HTML element
- `mouseover` : the user moves the mouse over an HTML element
- `mouseout` : the user moves the mouse away from an HTML element
- `keydown` : the user pushes a keyboard key

https://www.w3schools.com/jsref/dom_obj_event.asp

Demo

- Let's walkthrough how to make an Starbucks order form with HTML/CSS/JS

Requirements

Fields required:

- Name of the person ordering
- Location of where the person will be picking up the order from
- Order (i.e. coffee order)

Output to throw error if:

- Name is less than 3 characters or more than 50 characters
- Order is less than 3 characters or more than 50 characters

Requirements (cont)

Upon successful submission, output should be parsed as

```
[name] has submitted an order at [curr date] for [order] for picku p at [location]
```

Adding JS

- Add logic in the `<script>` tag

```
<!DOCTYPE html>
<html lang="en">
  <!-- your head and body code -->
  <script>
    console.log('hi');
  </script>
</html>
```

I don't want to use JS in my HTML document?

- Import file via script tag

```
<!DOCTYPE html>  
<html lang="en">  
  <!-- your head and body code -->  
  <script src="main.js"></script>  
</html>
```