Front End Software Development

Front End Technologies (weeks 7 - 12) Week 04



Agenda

- Questions
- Document Object Model (DOM)
- Finding Elements in the DOM
- Finding Elements by CSS Selectors
- Interacting with the DOM



Questions

Document Object Model (DOM)

- Tree Hierarchy
- Elements / Nodes

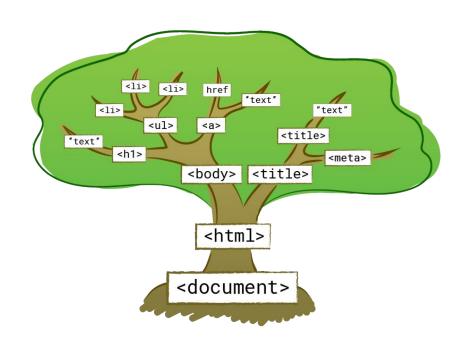
Node refers to HTML, text & comments. Whitespace between elements are text nodes.

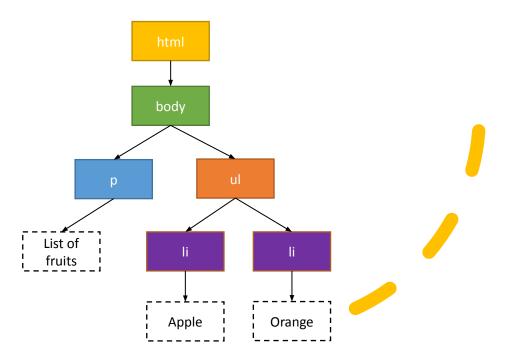
- Parent
- Child(ren)
- Sibling

```
<html>
<body>
List of fruits

Apple
Orange

</body>
</html>
```





Finding Elements (DOM)

Locate By Id

Note: id is unique. Only one per page.

```
Hello
document.getElementById('welcome');
```

Locate By Type

Note: Can return multiple items.

```
Hello
document.getElementsByTagName('p');
```

Locate By Class

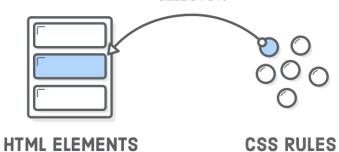
Note: Can return multiple items.

```
<div class="link">Hello</div>
<a href="#" class="link">Hello
document.getElementsByClassName('link');
```

Finding Elements (CSS Selectors)

Use any valid CSS selector

Note: Can return multiple items.



"SELECTOR"

```
<h1 id="header">Count</h1>
class="selected">
 class="list-item">One
  Two
 Three</ra>
</11]>
<button class="selected">Clear</button>
document.querySelectorAll(| li.selected')
NodeList [li.list-item.selected]
document.guerySelectorAll('.selected');
NodeList(3) [ul.selected, li.list-item.selected,
          button.selected |
document.querySelectorAll(| #header | );
NodeList [h1#header]
```

Interacting

Properties

- innerHTML
- outerHTML
- innerText
- textContent
- attributes
- childNodes vs. children
- parentNode
- style

• Methods (Action / Cause)

- click()
- blur()
- focus()
- getAttribute()
- addAttribute()
- removeAttribute()
- removeChild()
- createElement()
- appendChild()
- addEventListener()



• Events (Effect)

- click
- dblclick
- change
- blur
- focus
- mouseover
- keypress
- ... (lots more)
- <custom>



DEMO

DOM Interaction (Actions & Events)