

THE DOM: BASIC CONCEPTS

IN THIS LESSON

What is the DOM?

Representing HTML in the DOM

Text nodes

Whitespace nodes

REPRESENTING HTML IN THE DOM

The **Document Object Model** provides an interface between JavaScript and HTML

When a browser loads an HTML document, it will internally represent it with the DOM, best visualized as a tree graph

REPRESENTING HTML IN THE DOM

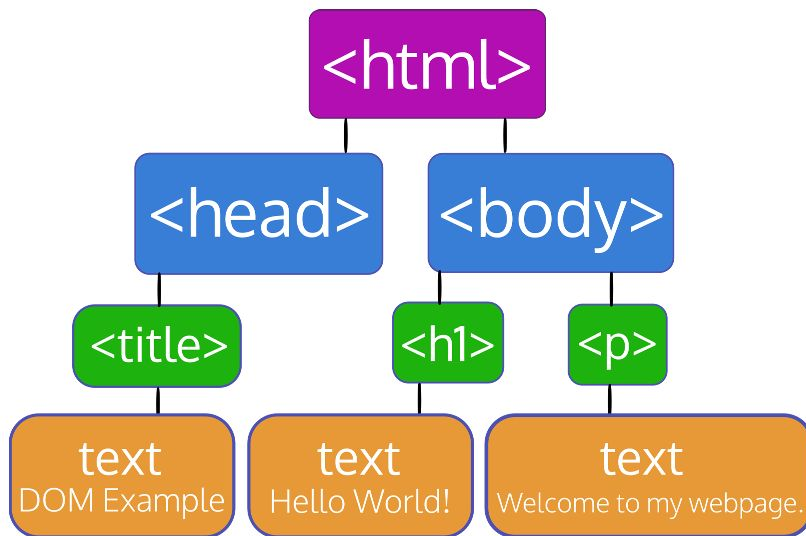
```
<html>
<head>
  <title>DOM Example</title>
</head>
<body>
  <h1>Hello World!</h1>
  <p>Welcome to my webpage.</p>
</body>
</html>
```

Hello World!

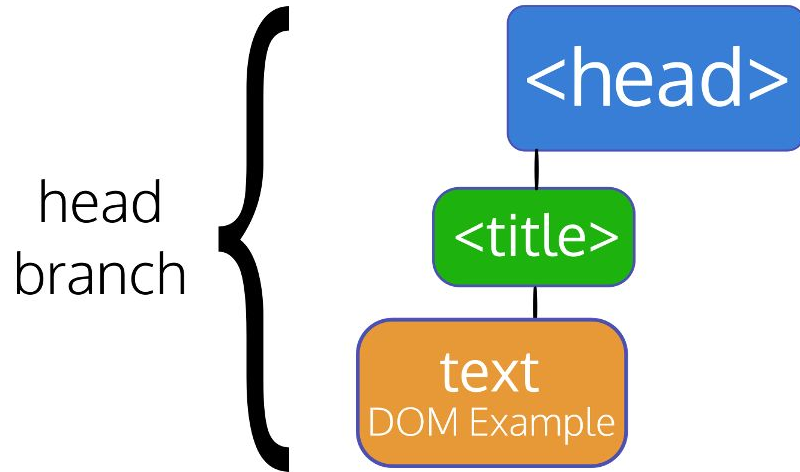
Welcome to my webpage.

REPRESENTING HTML IN THE DOM

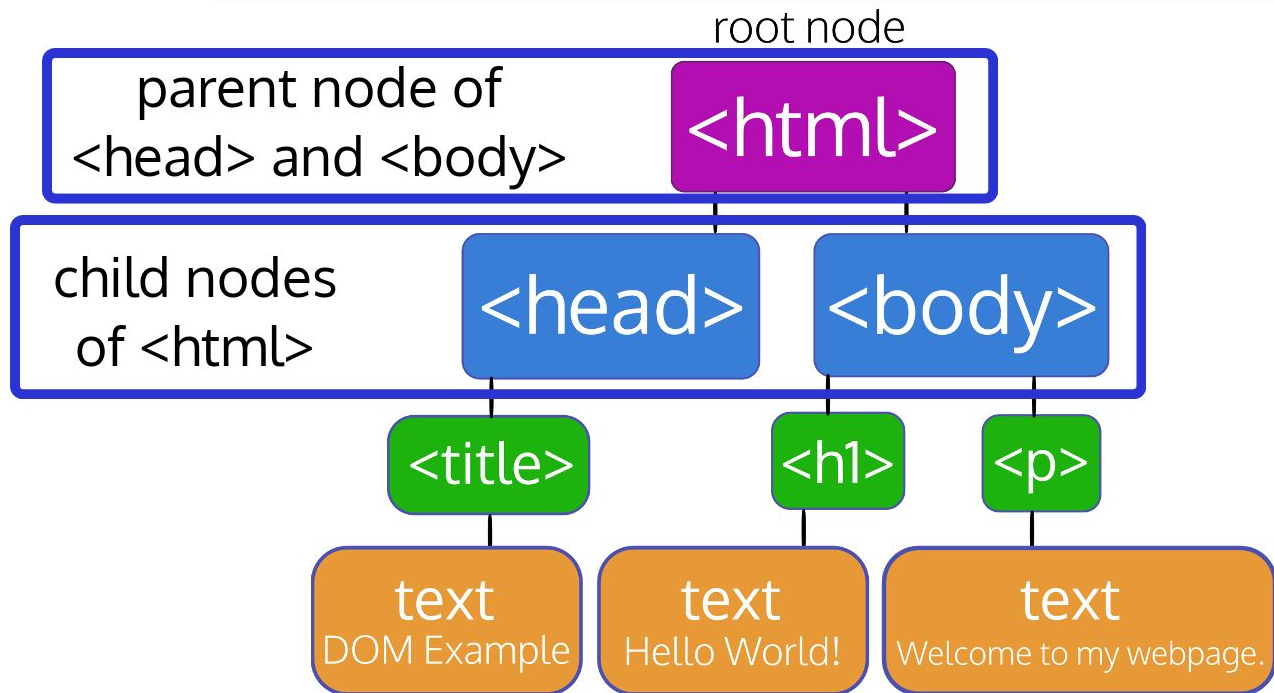
```
<html>
<head>
  <title>DOM Example</title>
</head>
<body>
  <h1>Hello World!</h1>
  <p>Welcome to my webpage.</p>
</body>
</html>
```



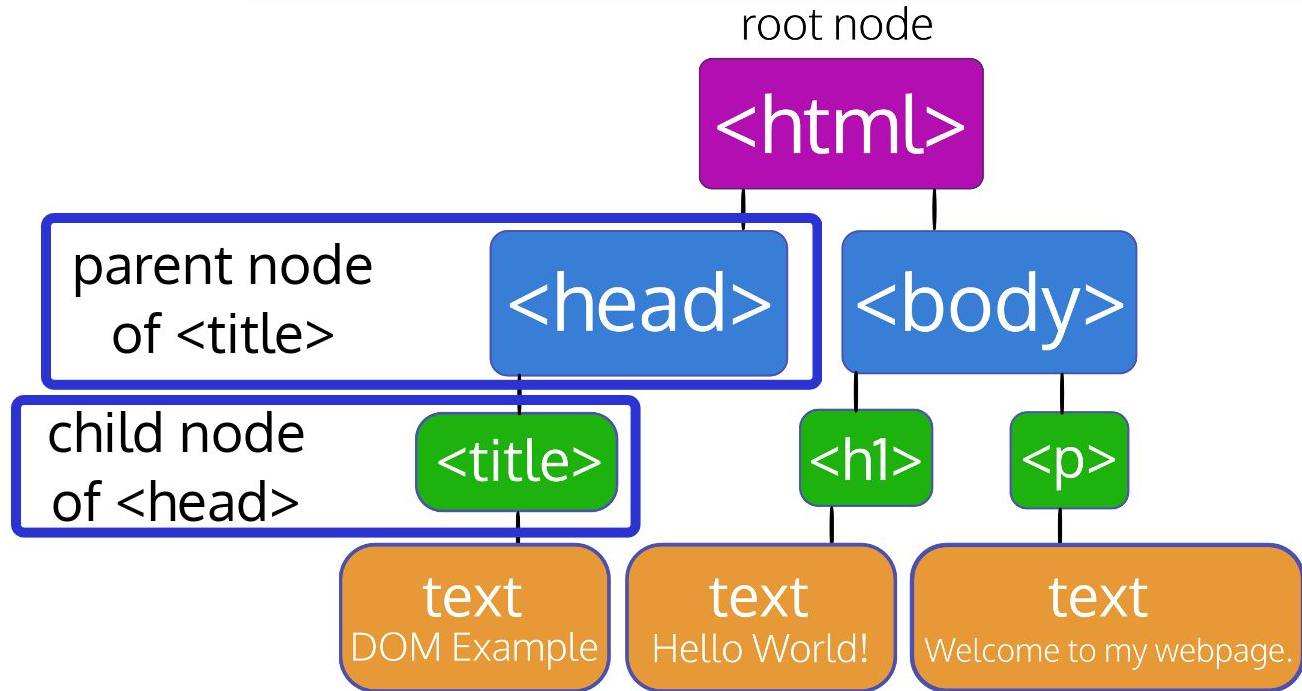
REPRESENTING HTML IN THE DOM



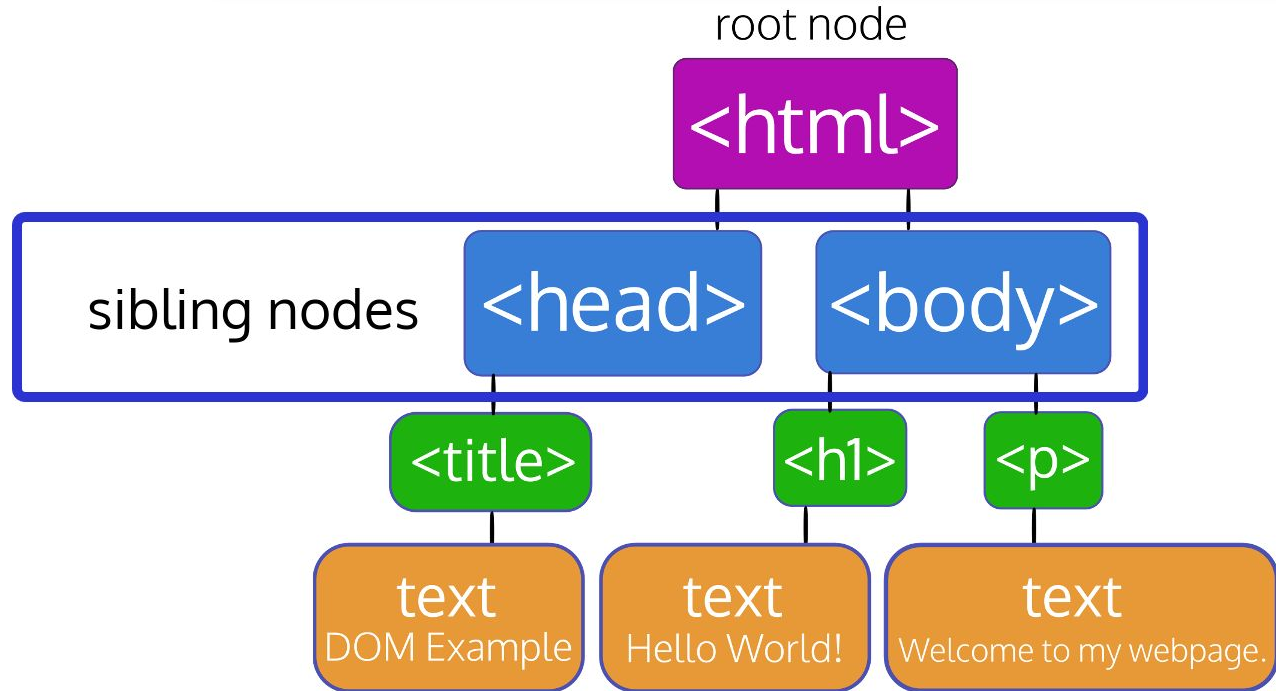
REPRESENTING HTML IN THE DOM



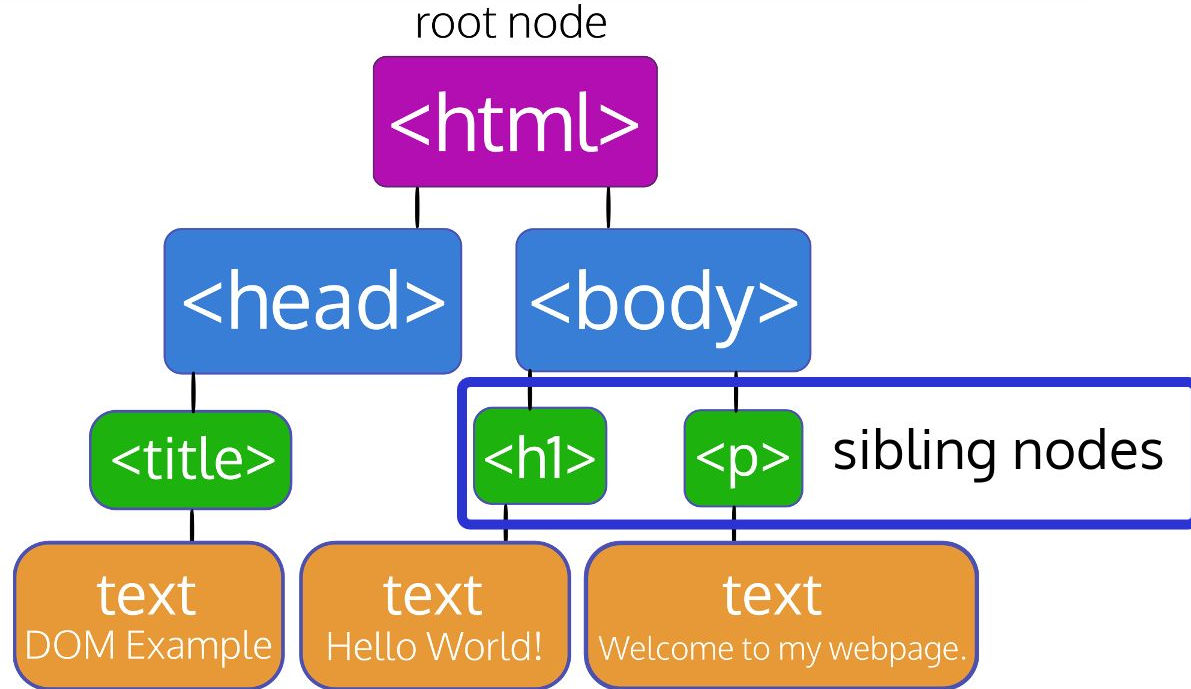
REPRESENTING HTML IN THE DOM



REPRESENTING HTML IN THE DOM



REPRESENTING HTML IN THE DOM



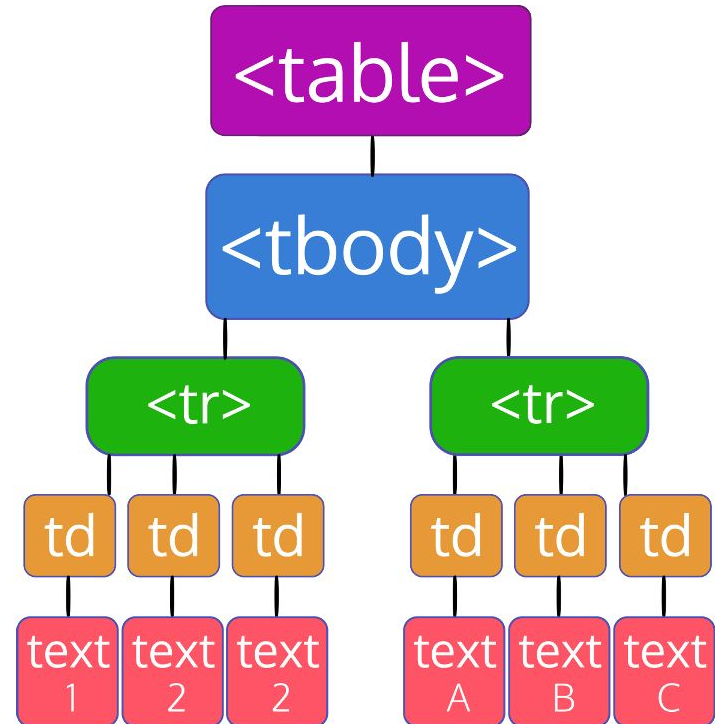
REPRESENTING HTML IN THE DOM

```
<html>
<body>
  <table>
    <tbody>
      <tr>
        <td>1</td><td>2</td><td>3</td>
      </tr>
      <tr>
        <td>A</td><td>B</td><td>C</td>
      </tr>
    </tbody>
  </table>
</body>
</html>
```

1	2	3
A	B	C

REPRESENTING HTML IN THE DOM

```
<html>
<body>
  <table>
    <tbody>
      <tr>
        <td>1</td><td>2</td><td>3</td>
      </tr>
      <tr>
        <td>A</td><td>B</td><td>C</td>
      </tr>
    </tbody>
  </table>
</body>
</html>
```



TEXT NODES

```
<html>
<body id="theBody">
  <p id="firstP">
    Hello
  </p>
  World
  <br />
  <p id="secondP">
    How are you?
  </p>
</body>
</html>
```

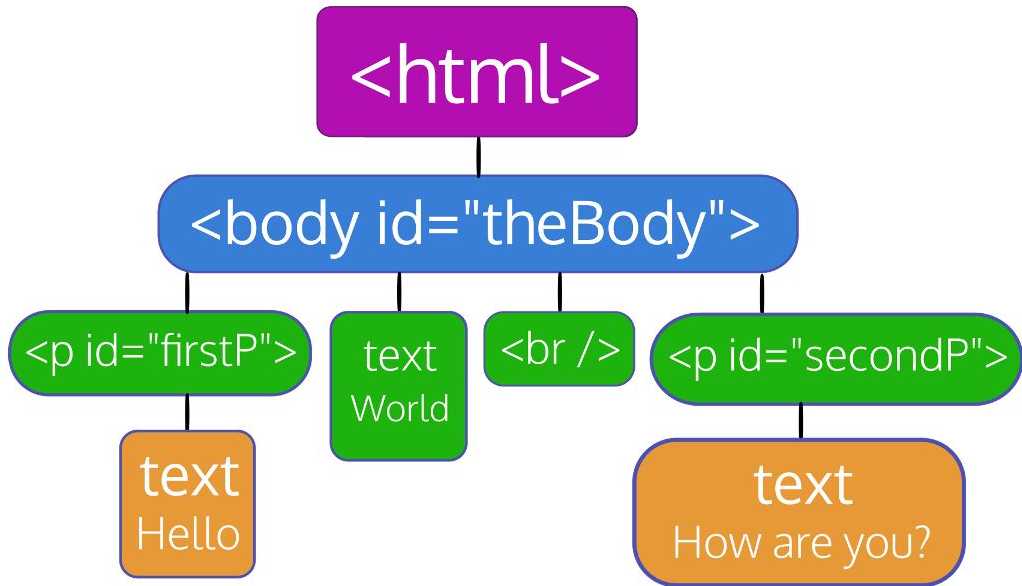
Hello

World

How are you?

TEXT NODES

```
<html>
<body id="theBody">
  <p id="firstP">
    Hello
  </p>
  World
  <br />
  <p id="secondP">
    How are you?
  </p>
</body>
</html>
```



WHITESPACE NODES

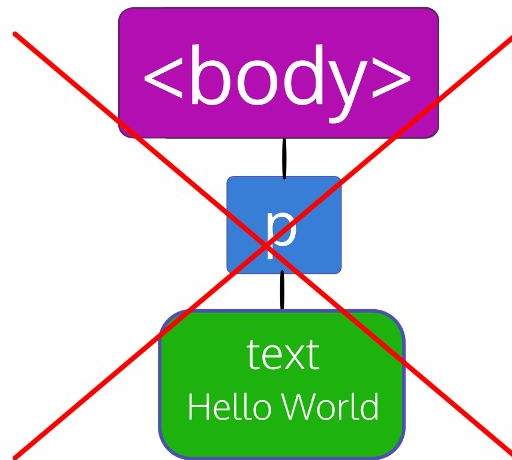
```
<html>
<body>
<p>Hello World</p>
</body>
</html>
```

Hello World

WHITESPACE NODES

```
<html>  
<body>  
<p>Hello World</p>  
</body>  
</html>
```

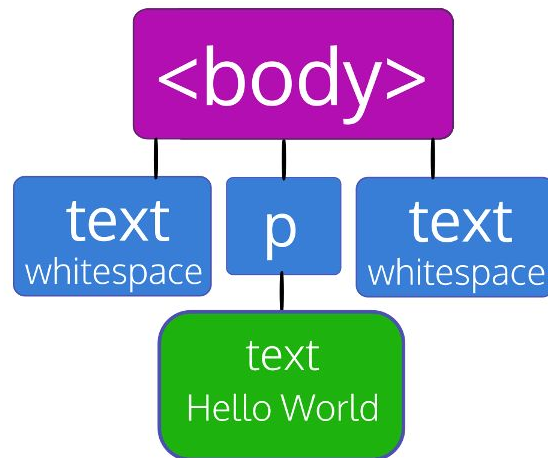
DOM representation of the <body> branch



WHITESPACE NODES

```
<html>
<body>
<p>Hello World</p>
</body>
</html>
```

DOM representation of the <body> branch



WHITESPACE NODES

```
<html>  
<body><p>Hello World</p></body>  
</html>
```

