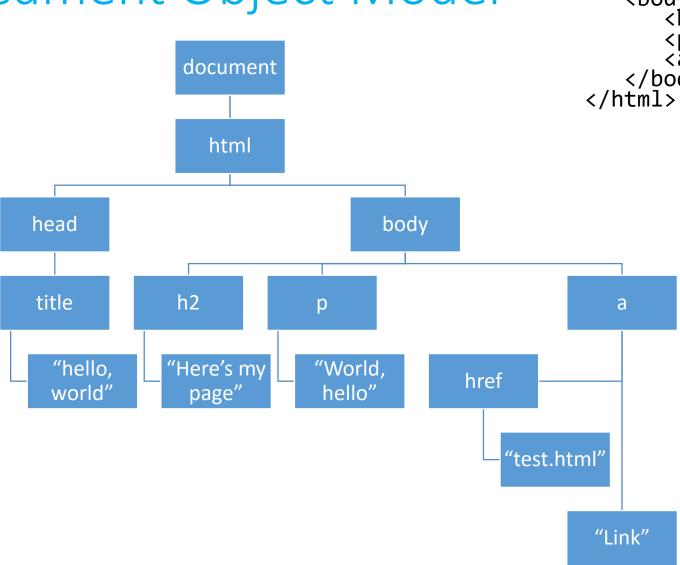
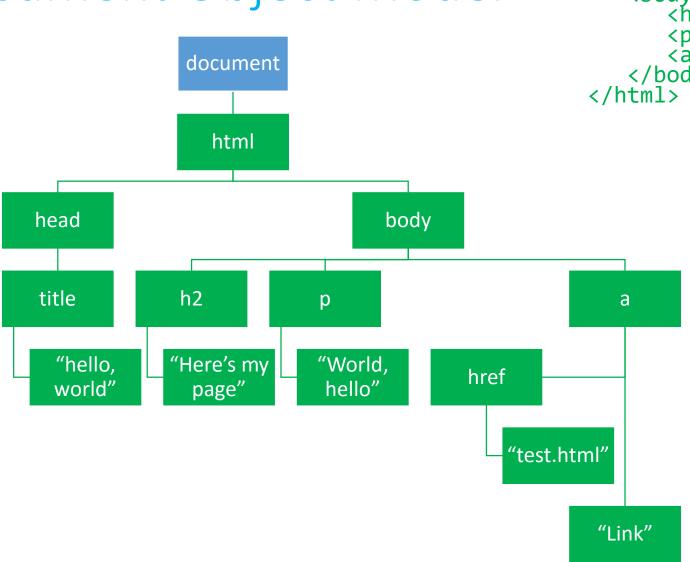
As we've seen, JavaScript objects are incredibly flexible, and can contain various fields, even when those fields are other objects.

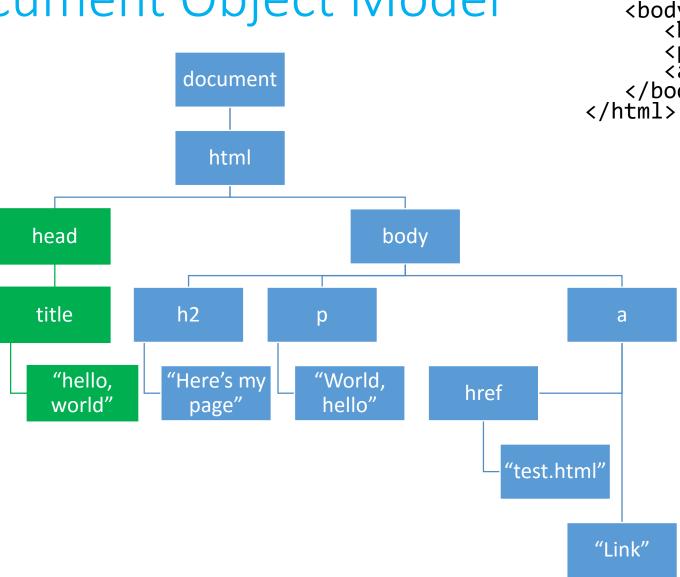
• The document object is one way of employing this paradigm, whereby that object organizes the entire contents of a web page.

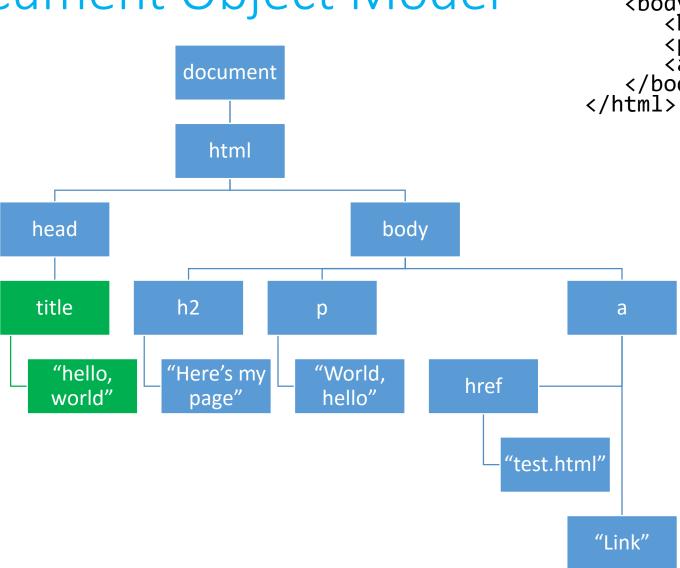
 By organizing an entire page into a JavaScript object, we can manipulate the page's elements programmatically.

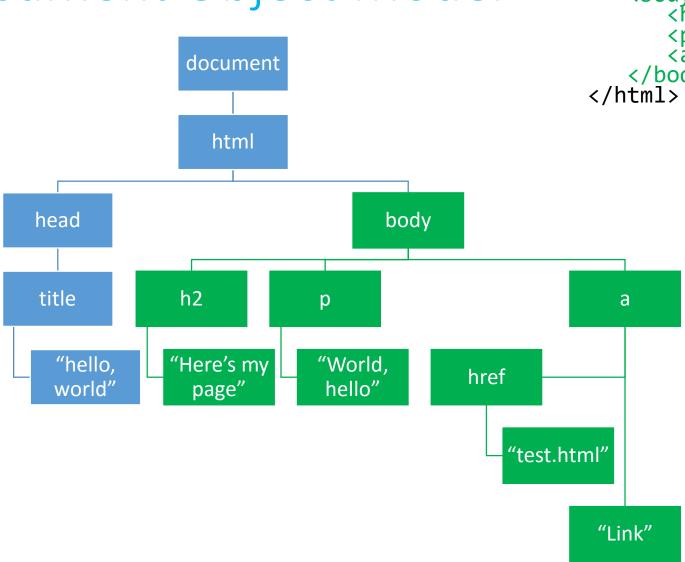
```
<html>
   <head>
     <title>Hello, world</title>
   </head>
  <body>
     <h2>Here's my page</h2>
     World, hello
     <a href="test.html">Link</a>
  </body>
</html>
```

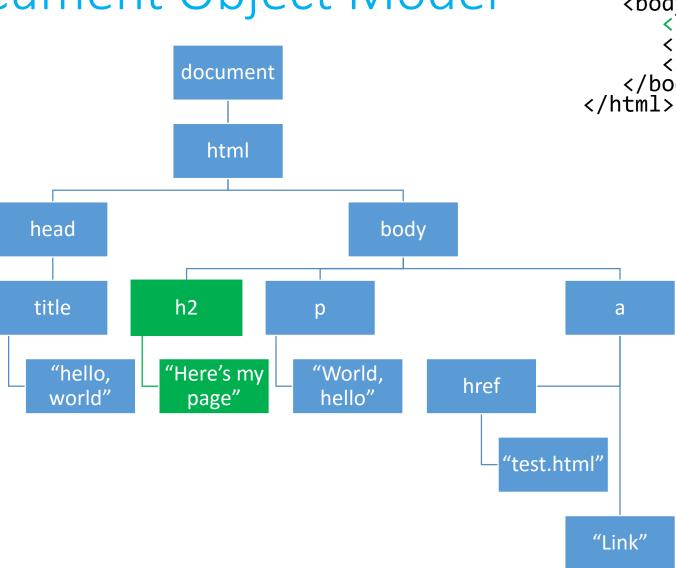


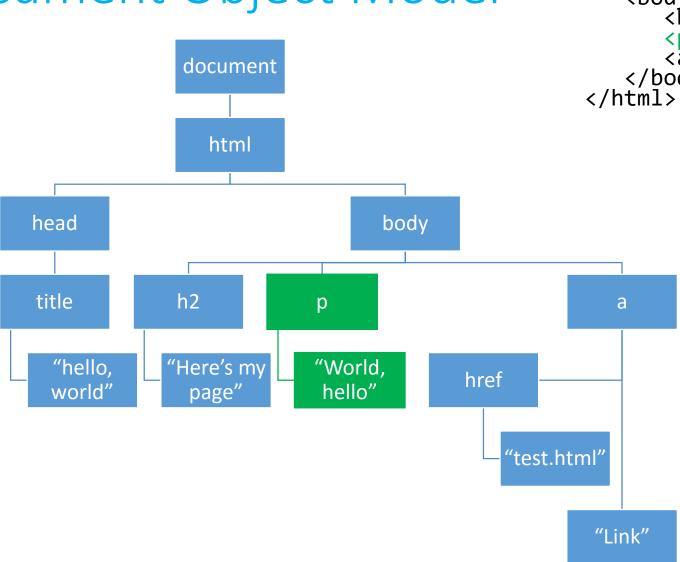


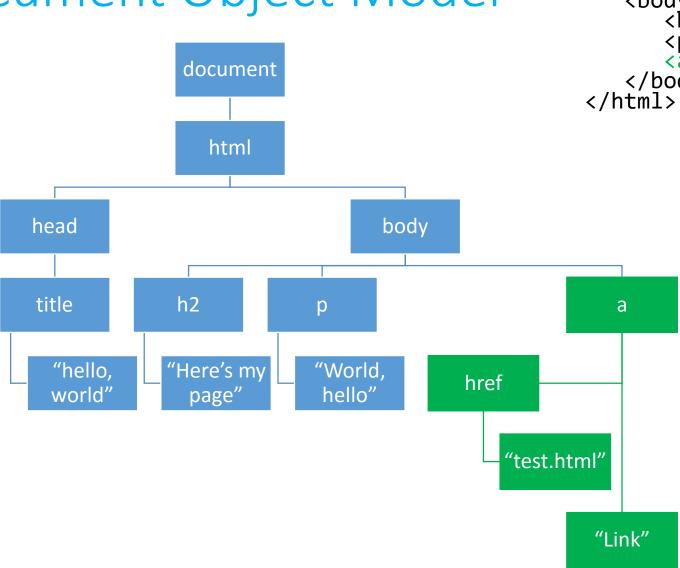












• The document object itself, as well as all of the objects contained within it, have a number of *properties* and a number of *methods* that can be used to drill down to a very specific piece of your website.

 By resetting those properties or calling certain methods, the contents of our web pages can change without us needing to refresh the page.

DOM Property	Description

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attributes	ibutes An array of attributes of an HTML element.	
style	An object encapsulating the CSS/HTML styling of an element.	

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• If we start from document, we can get to any piece of our web page that we choose, through careful use of DOM properties and methods.

jQuery

 Because DOM manipulation is so common with JavaScript, and because the JavaScript to do so can get quite lengthy, people wanted alternatives.

• jQuery is a popular open-source library, released in 2006, that is designed to simplify client-side scripting (such as DOM manipulations).

jQuery

```
document.getElementById('colorDiv').style.backgroundColor = 'green'
```

jQuery

document.getElementById('colorDiv').style.backgroundColor = 'green'

jQuery

```
$('#colorDiv').css('background-color', 'green');
```

jQuery

https://api.jquery.com