HTML, DOM, JAVA OBJECT MODEL – A JAVASCRIPT LOOK

1

The browser receives a web page

```
<DOCTYPE html>
<html>
  <head>
    <title>Constructive & amp; Co</title>
    k rel="stylesheet" href="c01.css" />
  </head>
  <body>
    <h1>Constructive & amp; Co</h1>
    For all orders and enquiries,
   please call <em>555-3344</em>
  </body>
</html>
```

1

2

The browser receives a web page

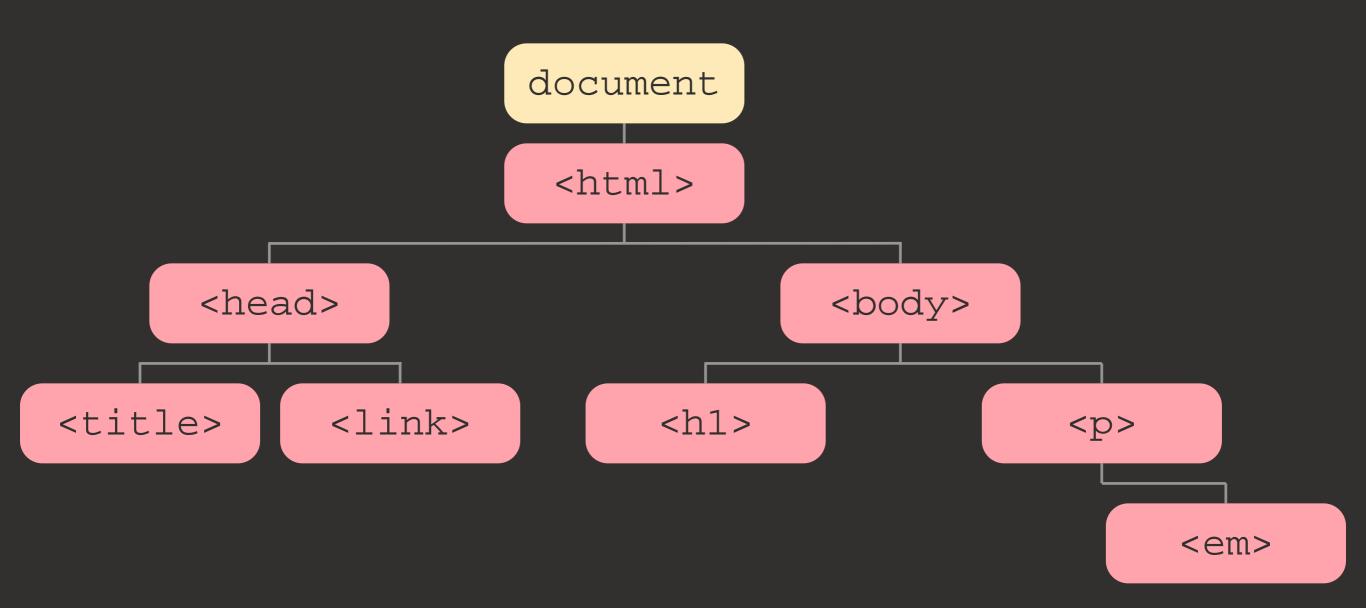
It creates a model of the page and stores it in memory



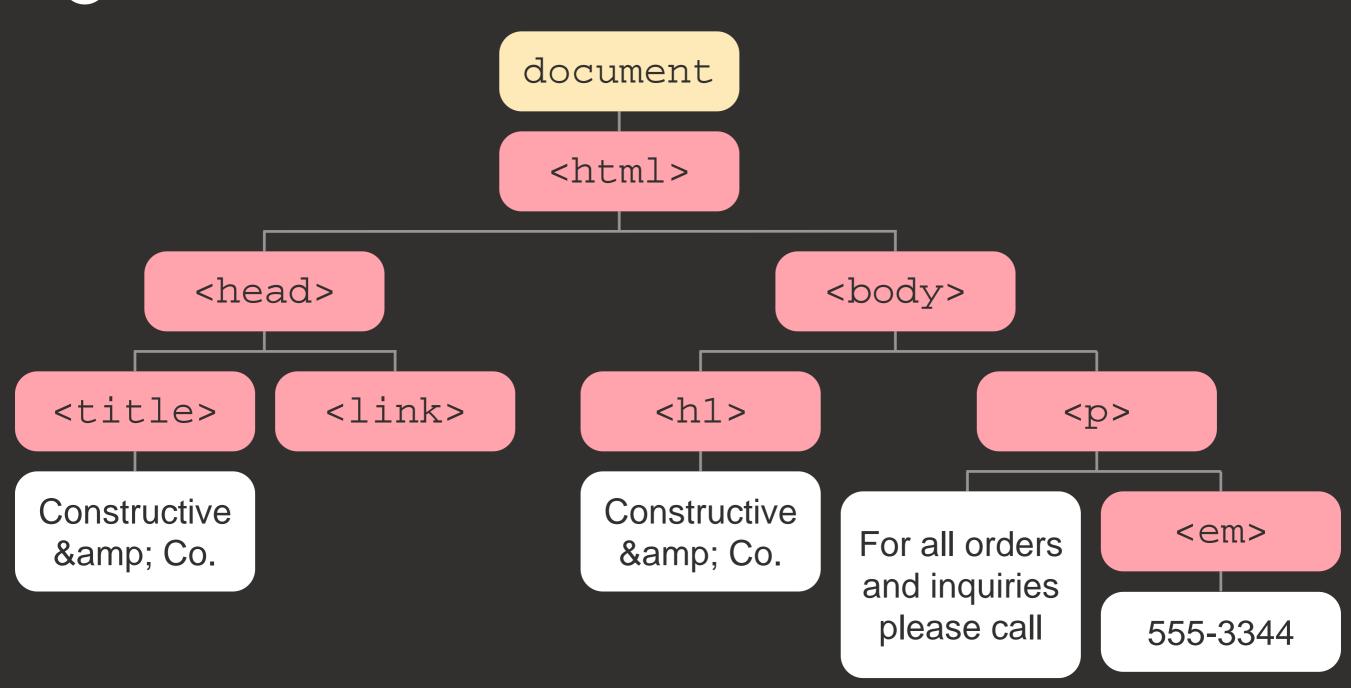
document

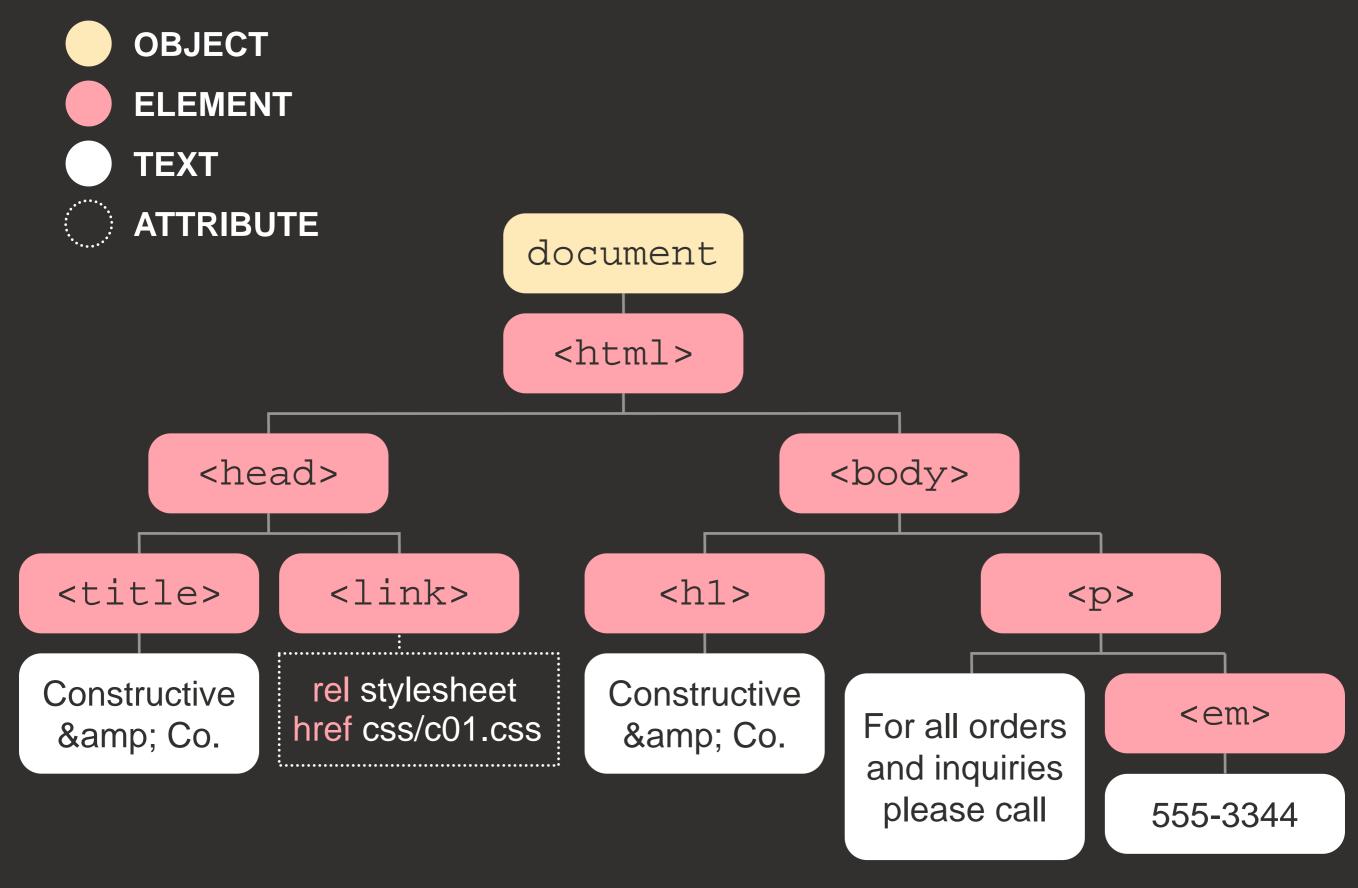






- OBJECT
- ELEMENT
- **TEXT**





```
<DOCTYPE html>
<html>
  <head>
    <title>Constructive & amp; Co</title>
    k rel="stylesheet" href="c01.css" />
  </head>
  <body>
    <h1>Constructive & amp; Co</h1>
    For all orders and enquiries,
   please call <em>555-3344</em>
  </body>
</html>
```

1

2

3

The browser receives a web page

It creates a model of the page and stores it in memory

It shows the page on screen using a rendering engine



DOCUMENT OBJECT MODEL – A JAVASCRIPT LOOK

The DOM specifies how:

1

2

Browsers
create a model of
an HTML page

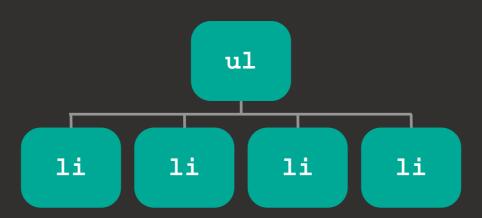
JavaScript
accesses / updates
an HTML page



THE DOM TREE

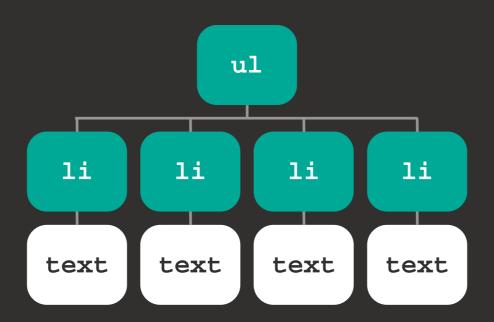


ELEMENT NODES



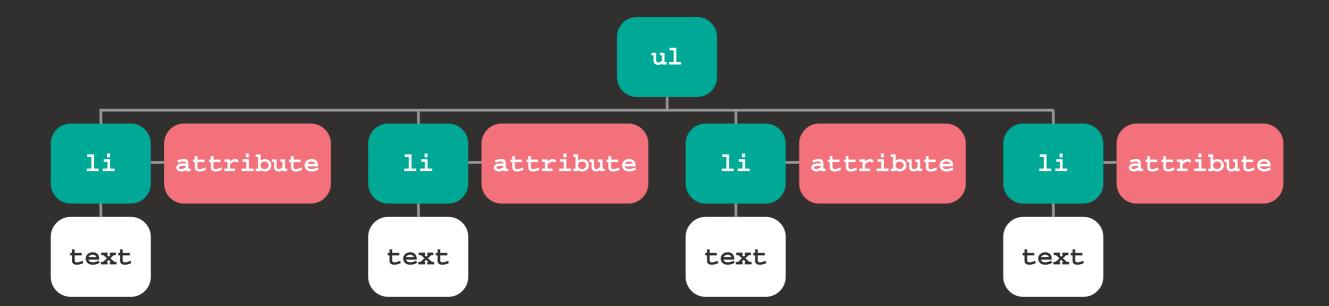
TEXT NODES

```
    fresh figs
    pine nuts
    honey
    balsamic vinegar
```



ATTRIBUTE NODES

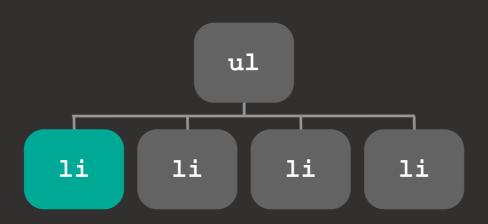
```
    <!ii id="one" class="hot">fresh figs
    <!ii id="two" class="hot">pine nuts
    <!ii id="three" class="hot">honey
    <!ii id="four">balsamic vinegar
```



To access and update the HTML, first you select the element(s) you want to work with.

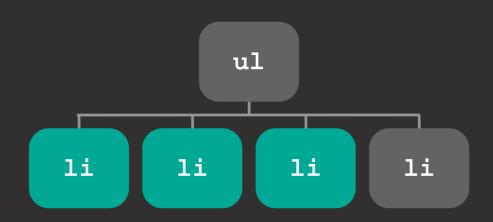
DOM QUERIES

```
    <!i id="one" class="hot">fresh figs
    <!i id="two" class="hot">pine nuts
    <!i id="three" class="hot">honey
    <!i id="four">balsamic vinegar
```



getElementById('one');

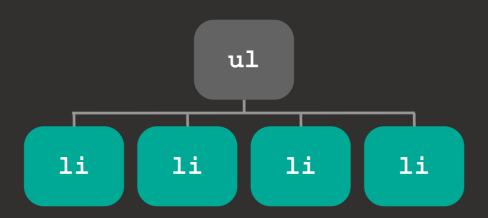
```
    <!i id="one" class="hot">fresh figs
    <!i id="two" class="hot">pine nuts
    <!i id="three" class="hot">honey
    <!i id="four">balsamic vinegar
```



getElementsByClassName('hot');



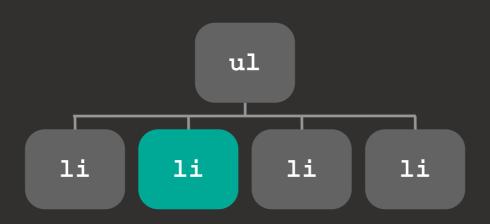
```
    <!i id="one" class="hot">fresh figs
    <!i id="two" class="hot">pine nuts
    <!i id="three" class="hot">honey
    <!i id="four">balsamic vinegar
```



getElementsByTagName('li');

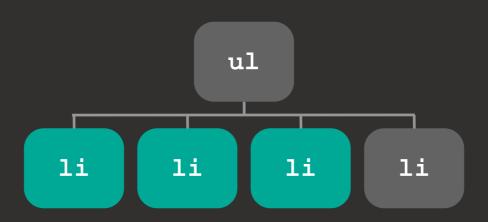


```
    <!i id="one" class="hot">fresh figs
    <!i id="two" class="hot">pine nuts
    <!i id="three" class="hot">honey
    <!i id="four">balsamic vinegar
```



querySelector('#two');

```
    <!i id="one" class="hot">fresh figs
    <!i id="two" class="hot">pine nuts
    <!i id="three" class="hot">honey
    <!i id="four">balsamic vinegar
```



querySelectorAll('li.hot');



