

Class 5:

Interaction II

Class 4

Interaction: CSS

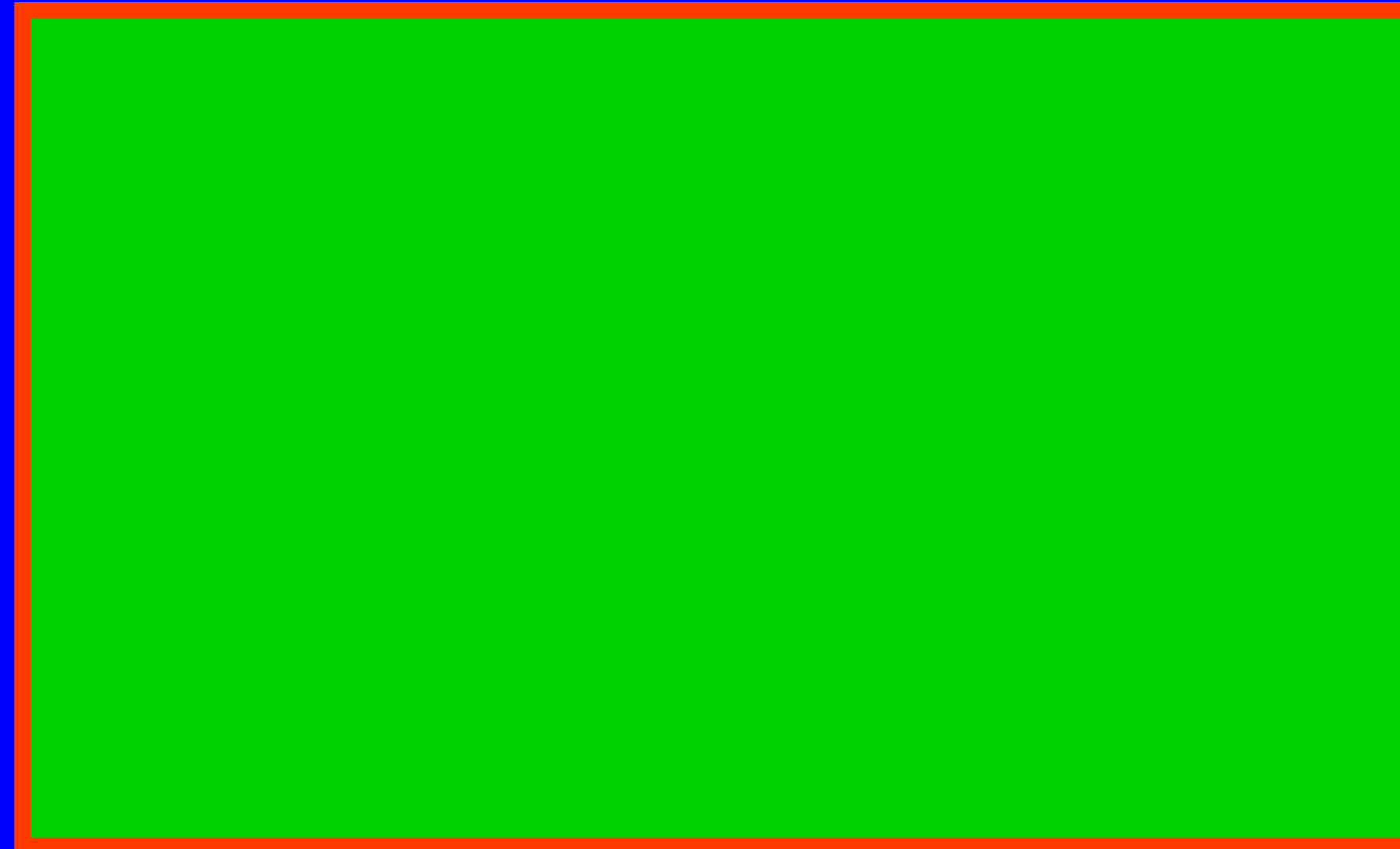
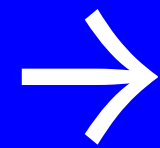
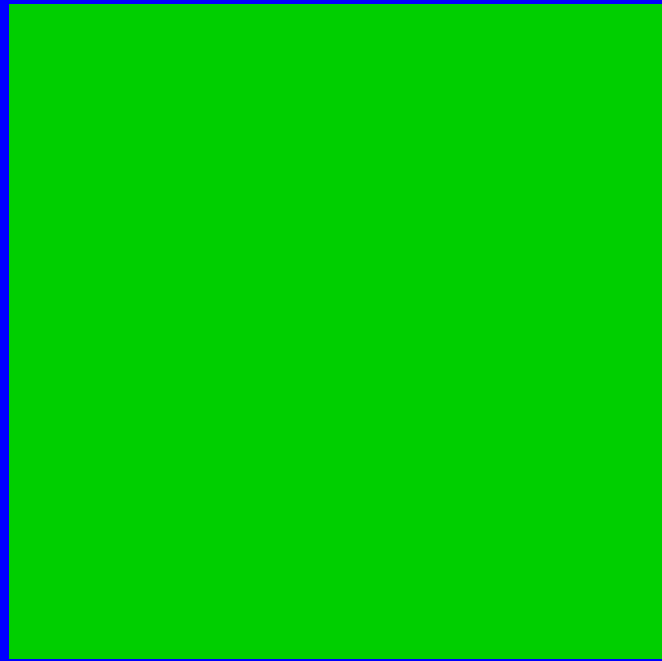
```
body {  
  color: #555;  
  font-family: sans-serif;  
  margin: 0;  
}  
  
a {  
  color: #999;  
  text-decoration: none;  
}  
  
.logo-text {  
  font-size: 1em;  
  margin: 0;  
}
```

Pseudo-class

```
:hover  
:active  
:visited  
:focus  
...
```

Class 4

Interaction: CSS



```
.item-block {  
  width: 100px;  
  height: 100px;  
  background: green;  
}
```

```
.item-block:hover {  
  width: 600px;  
  height: 400px;  
  border: 10px solid red;  
}
```

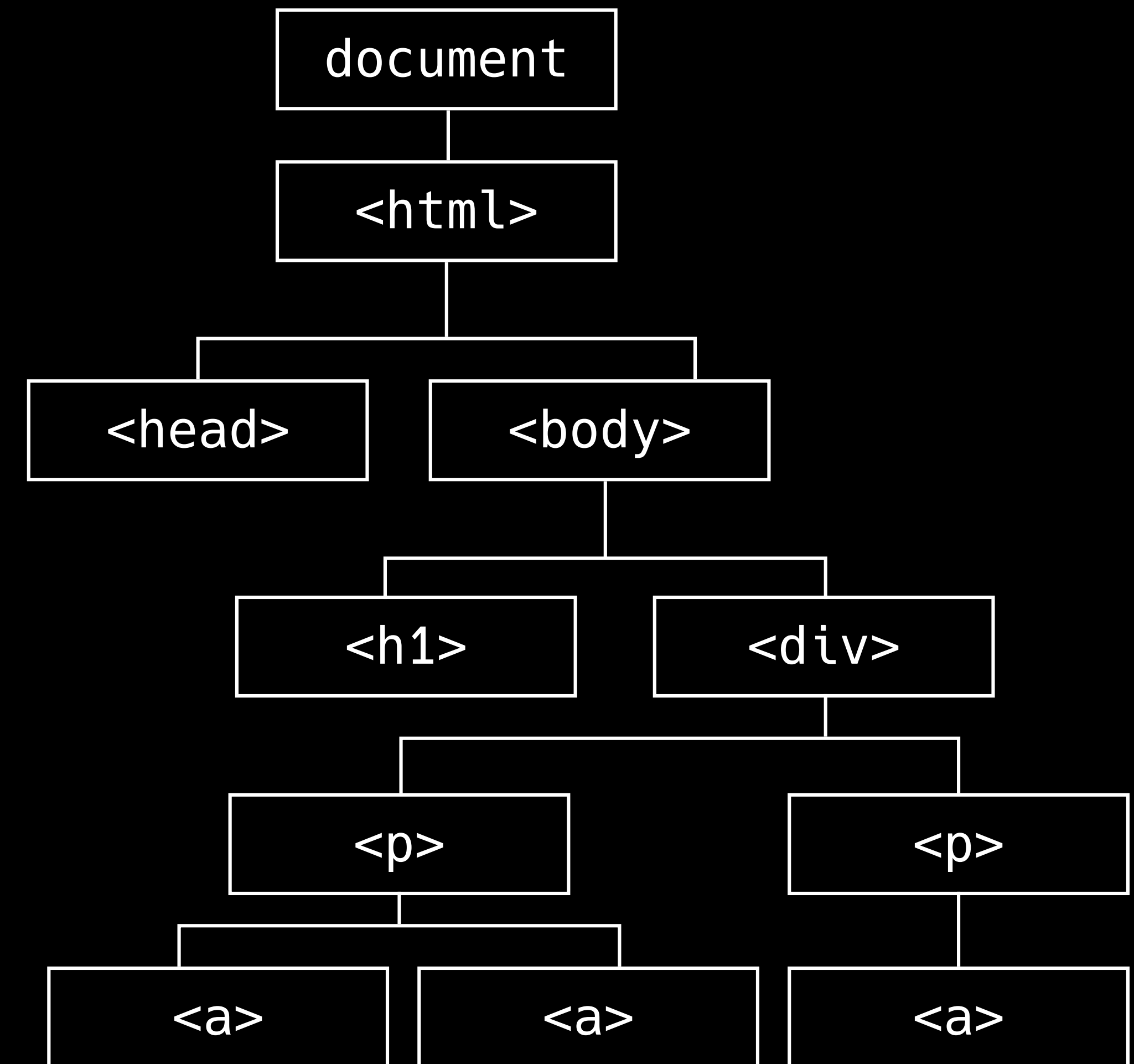
Class 4

Document Object Model

A cross-platform programming interface that treats an HTML document as a tree structure where in each node is an object representing a part of the document.

The DOM model represents a document with a logical tree.

Each branch of the tree ends in a node, and each node contains objects. DOM methods allow programmatic access to the tree; with them you can change the document's structure, style or content.



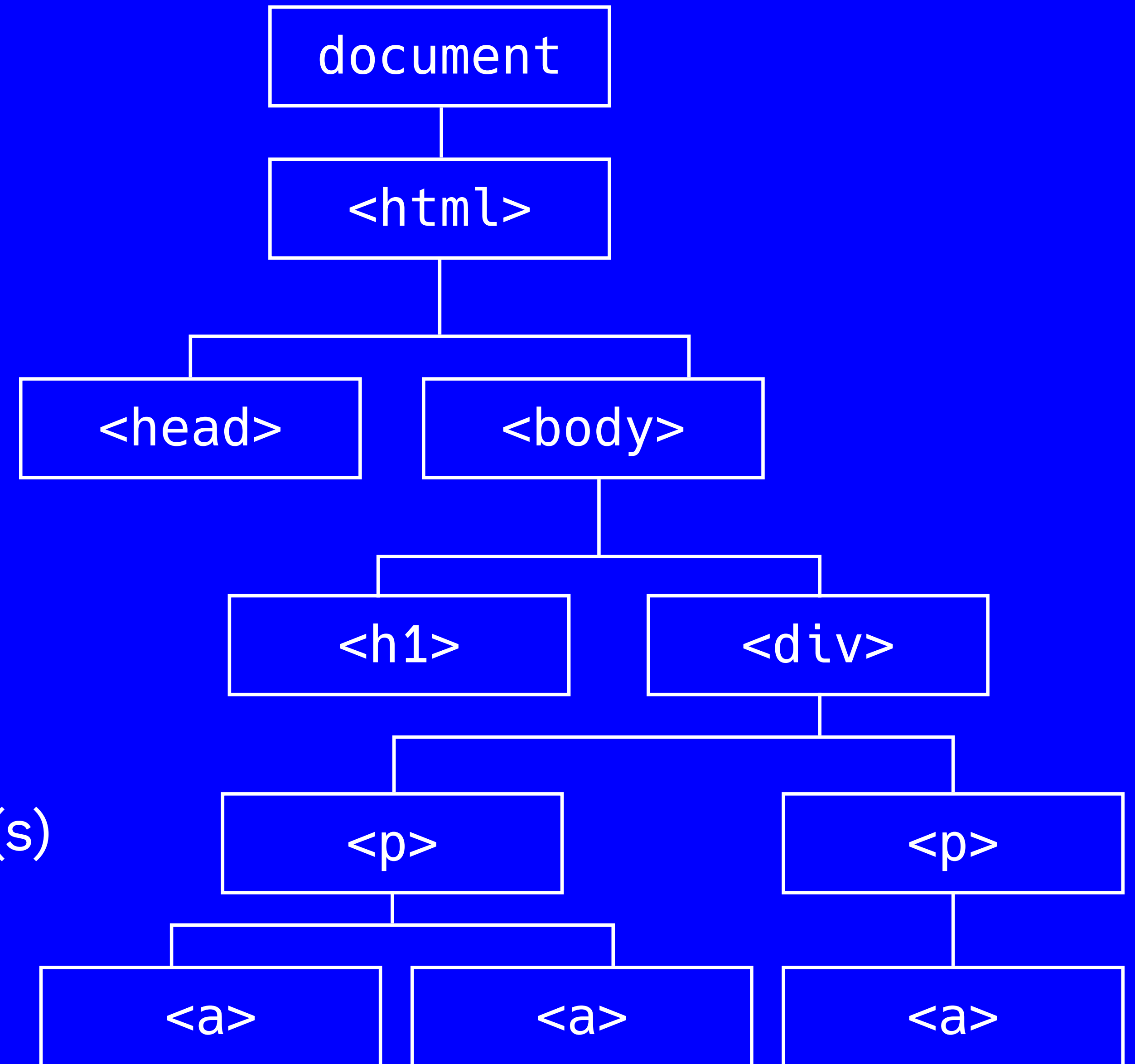
Class 4

Interaction: JavaScript

```
var element = document.querySelector('p');  
  
element.forEach(function(item) {  
    item.style.cssText = "color: green";  
});
```

Document Object Model

- Document contains many objects
- Objects have properties
- Objects can be modified
- Attributes can be edited
- Events can happen on any object(s)
- Test, run, debug in browser



jQuery

```
$( 'body' )
```

JavaScript

```
document.querySelector( 'body' );
```

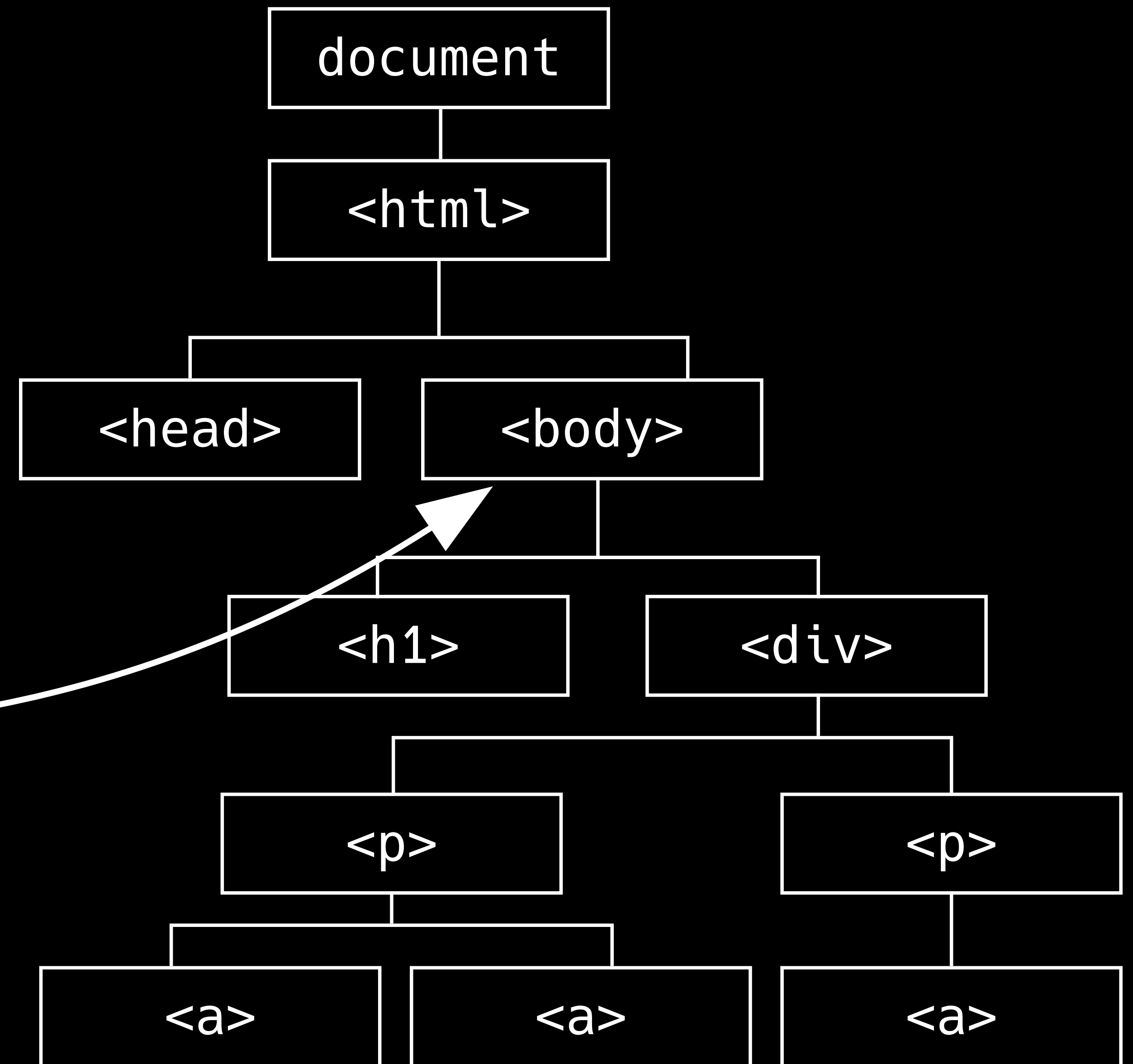

JavaScript: Selectors

What object(s) are you looking for?

`$('body')`

Same as:

`document.querySelector('body');`



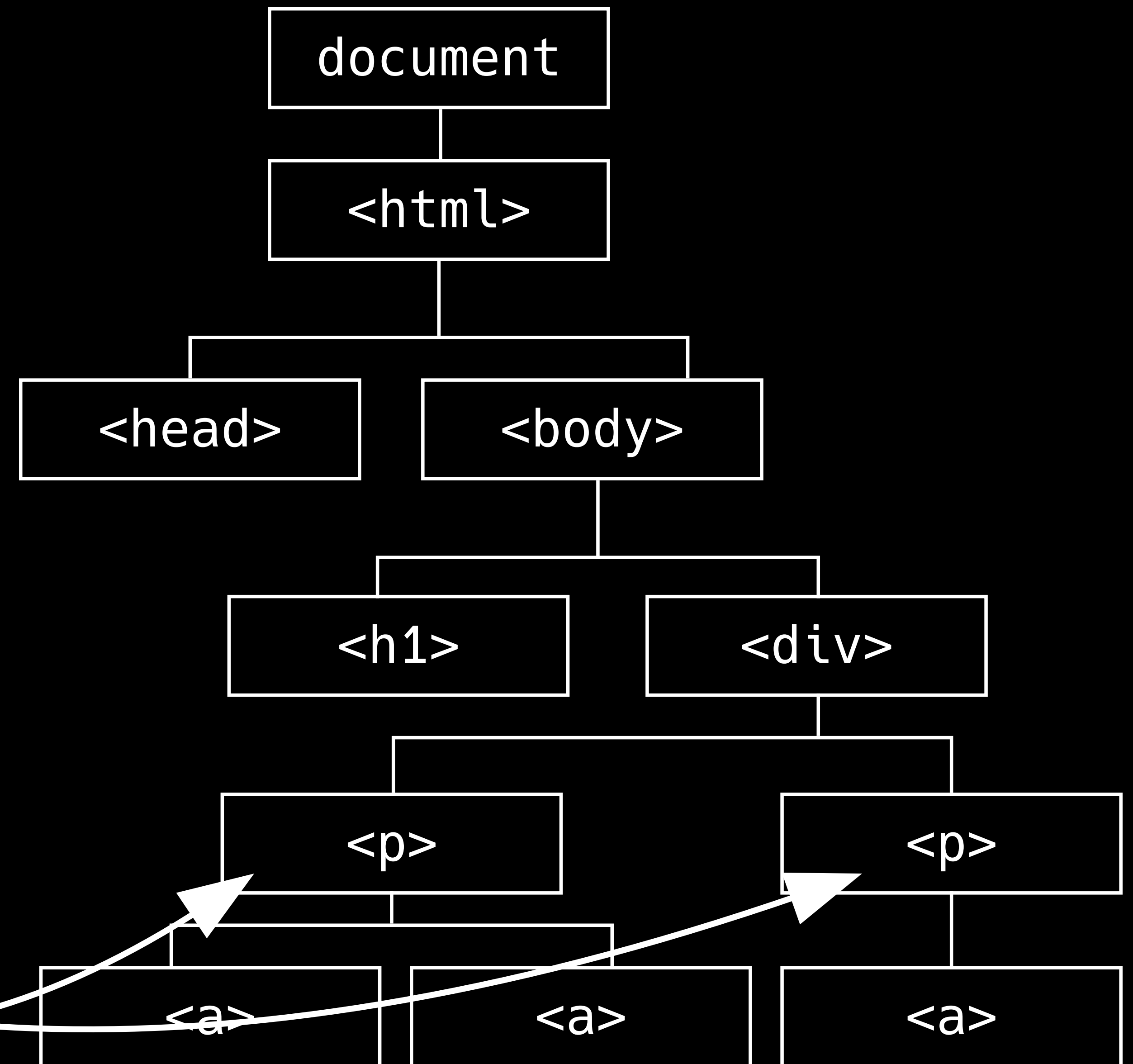
JavaScript: Selectors

What object(s) are you looking for?

`$('p')`

Same as:

`document.querySelectorAll('p');`



JavaScript: Methods/Actions

What should we do with these objects?

```
$(' .store-button ' )
```



Store Name

`.store-button`

Same as:

```
document.querySelector( ' .store-button' );
```

JavaScript: Methods/Actions

What should we do with these objects?

```
$( '.store-button' ).css( 'background', 'purple' )
```



Same as:

```
document.querySelector( '.store-button' ).style.cssText = 'background: purple';
```

JavaScript: Events

What should we do when X happens on this object(s)?

```
$( '.store-button' ).on( 'click', function() {  
    alert( 'This button has been clicked' )  
})
```



Store Name

JavaScript: Events

What should we do when X happens on this object(s)?

```
var myElement = document.querySelector( '.store-button' );  
  
myElement.addEventListener( 'click', function() {  
    alert( 'This button has been clicked' );  
})
```



Store Name

JavaScript: Events

What should we do when X happens on this object(s)?

- Click
- Hover
- Scroll
- Type
- Cursor (Move)
- Drag
- Resize

JavaScript: Events

What should we do when X happens on this object(s)?

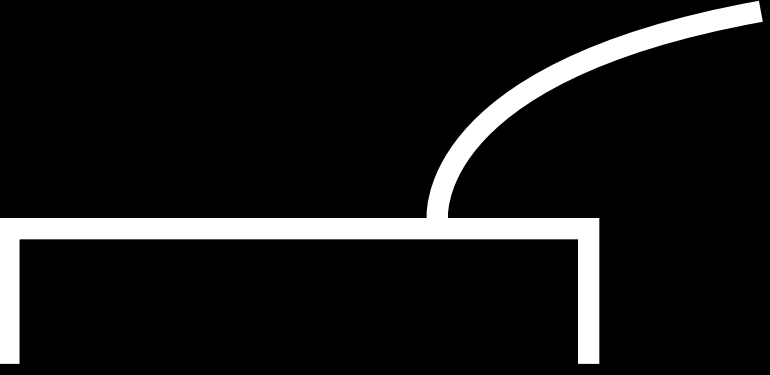
- Double-Click
- Select
- Focus
- ...

JavaScript: Events

What should we do when X happens on this object(s)?

Event

```
$( '.store-button' ).on( 'click', function() {  
    alert( 'This button has been clicked' )  
})
```

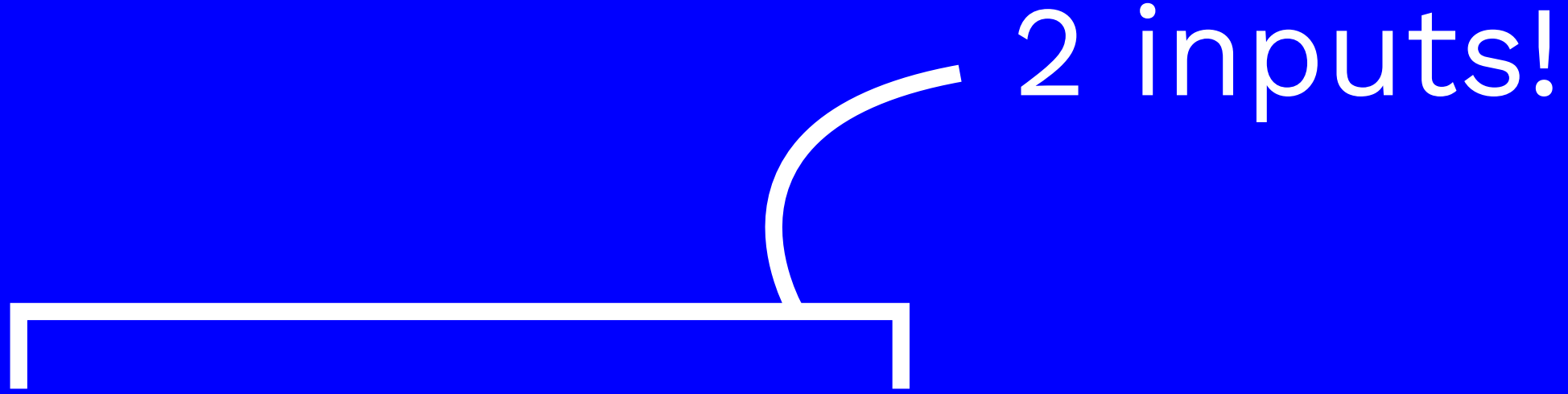


Store Name

JavaScript: Functions

A block of code designed to perform a particular task.

Everything between the curly brackets



```
function multiply(num1, num2) {  
    var result = num1 * num2  
    return result  
}
```

```
multiply(4, 7)
```

JavaScript: Events

```
$( '.store-button' ).on( 'click', function() {  
    alert( 'This button has been clicked' )  
})
```

Store Name

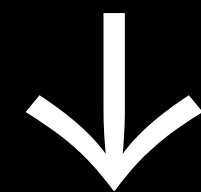
JavaScript: Events

```
$( '.store-button' ).on( 'click', function() {  
    $( '.items-list' ).show()  
    $( '.splash-graphic' ).hide()  
})
```

Store Name

JavaScript: Events

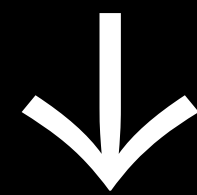
When Store Name is clicked, show the items list, and hide the splash graphic



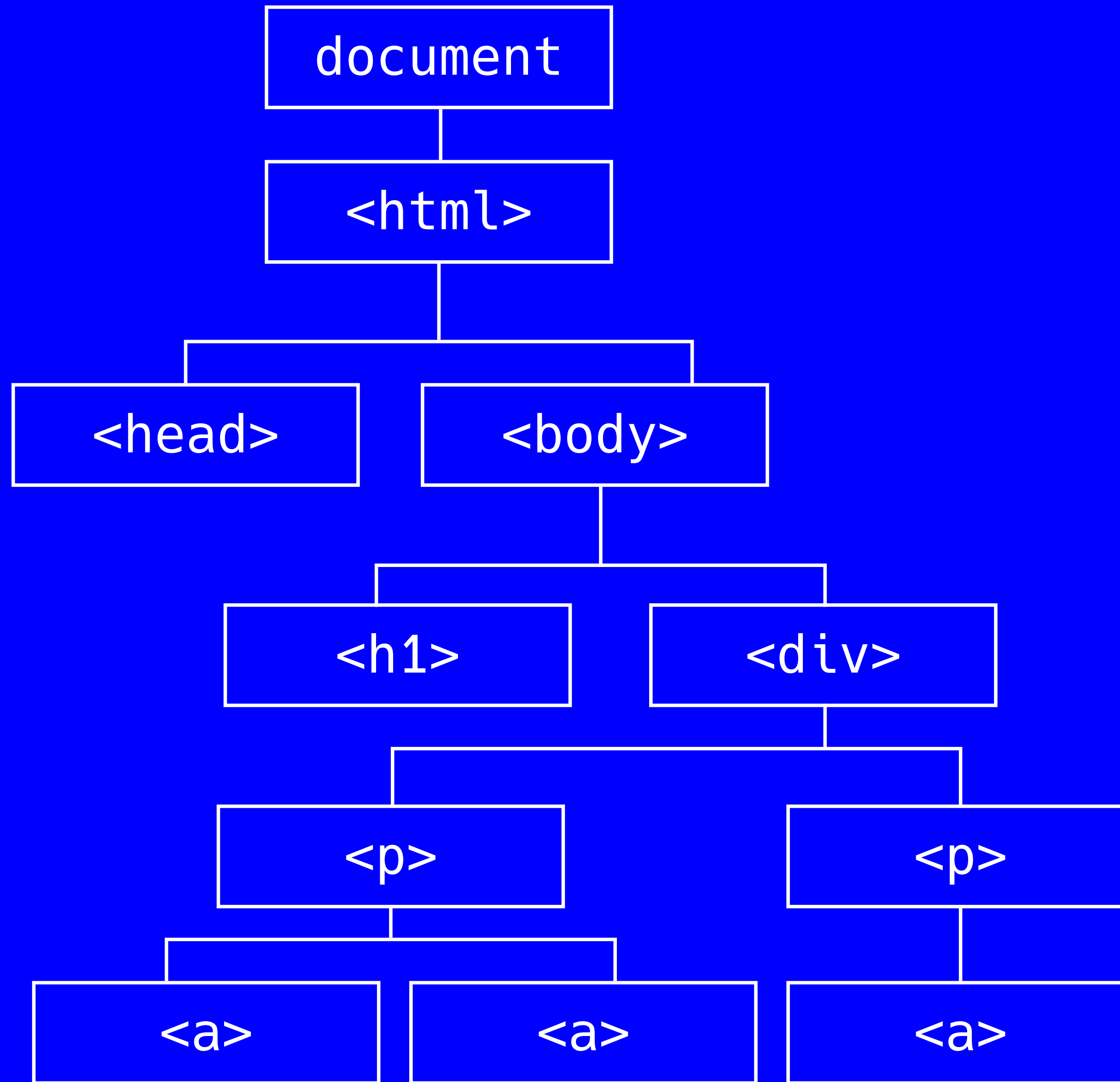
```
$( '.store-button' ).on( 'click', function() {  
    $( '.items-list' ).show()  
    $( '.splash-graphic' ).hide()  
})
```

JavaScript: Events

When Store Name is clicked, show the items list, and hide the splash graphic

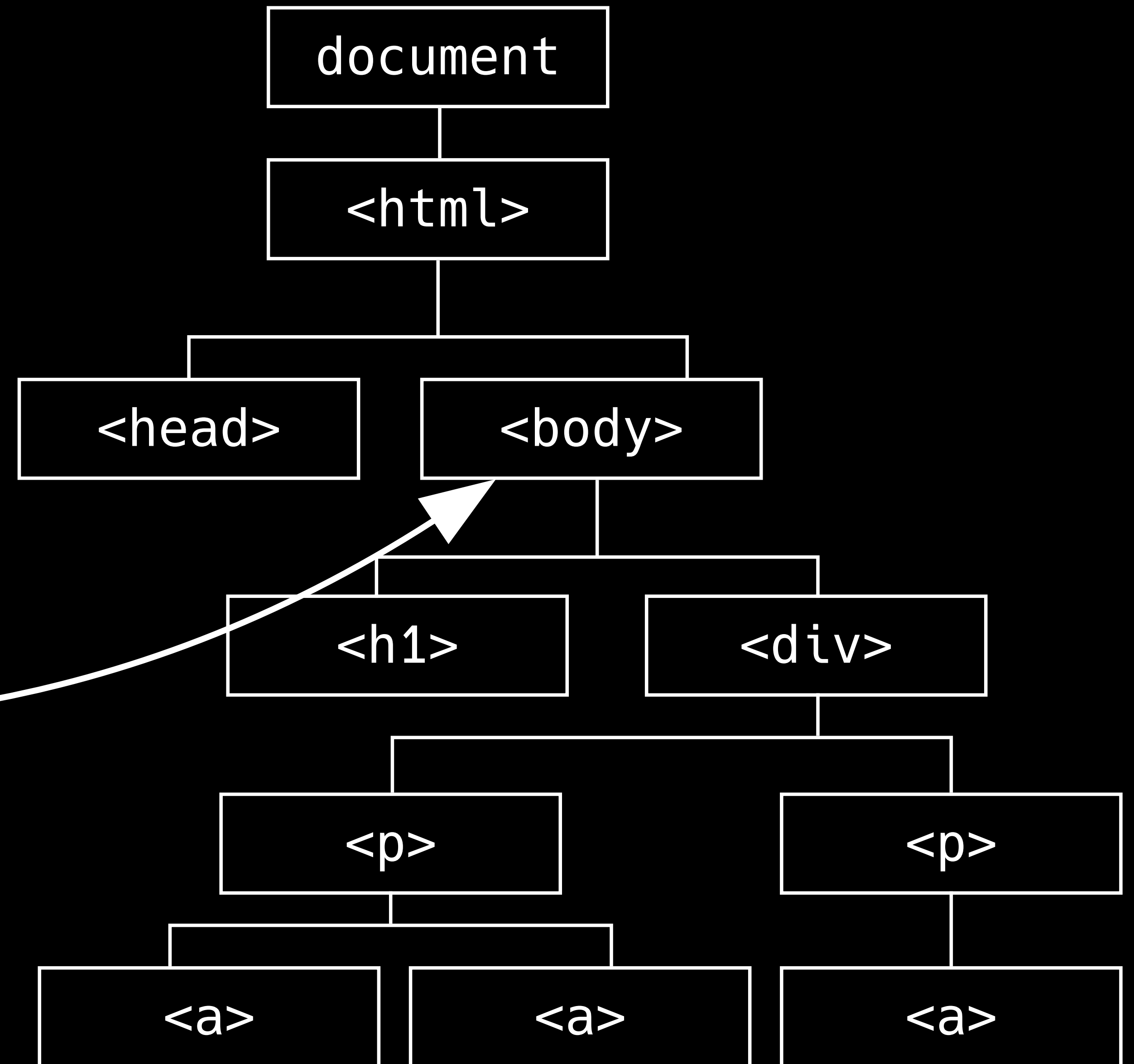


```
$( '.store-button' ).on( 'click', function() {  
    $( '.items-list' ).show()  
    $( '.splash-graphic' ).hide()  
})
```



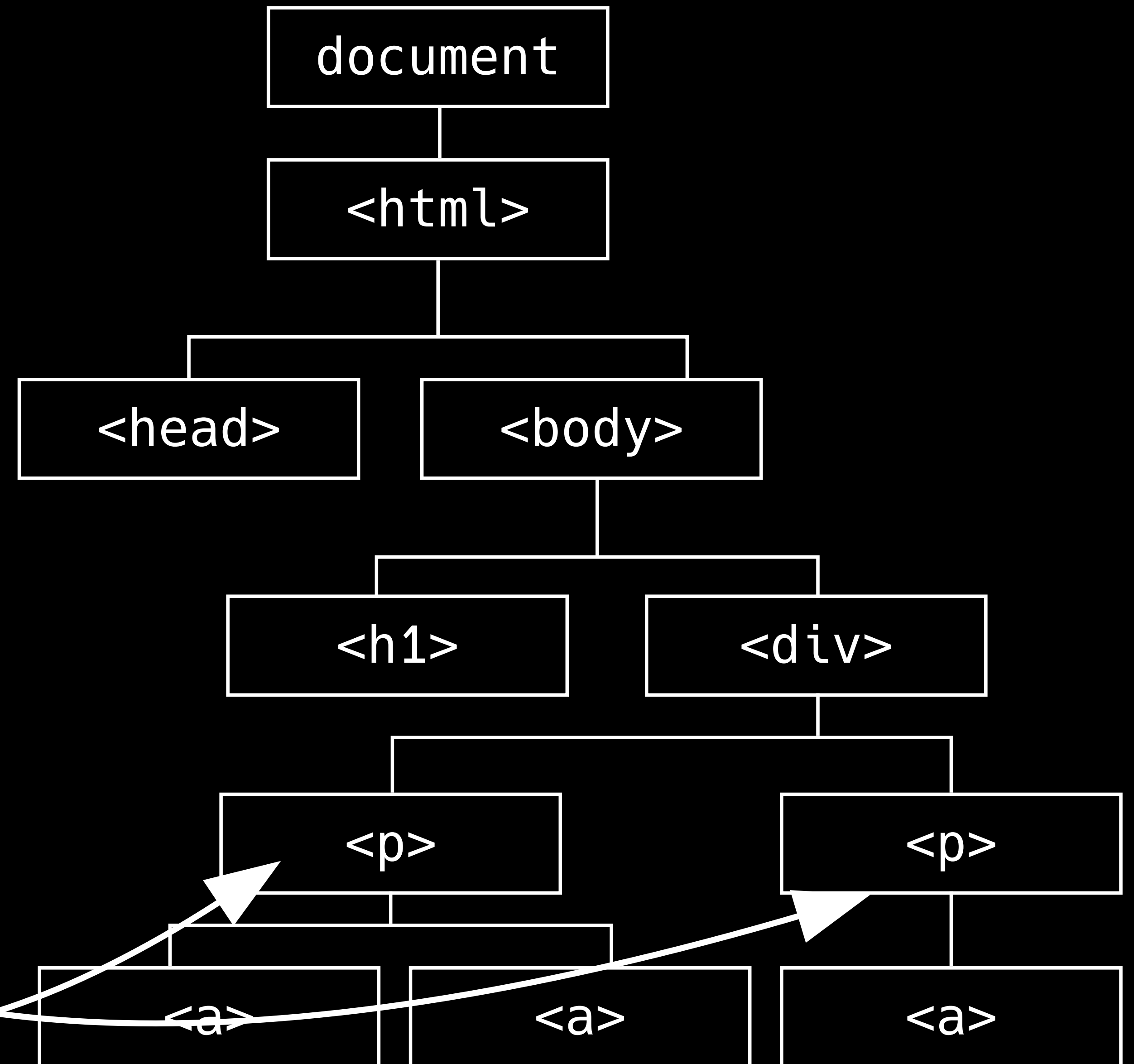
JavaScript: Selectors

`$('body')`



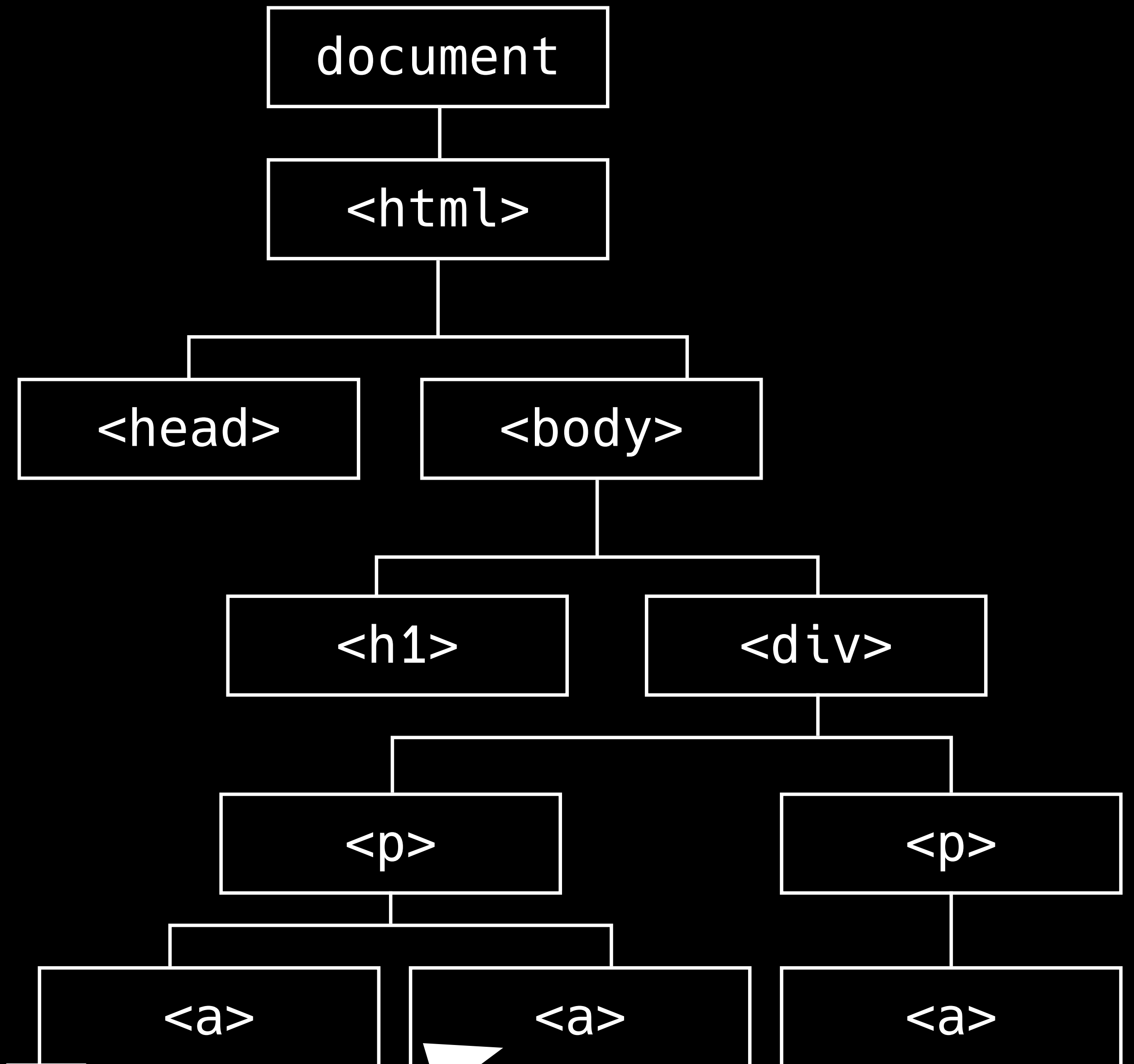
JavaScript: Selectors

```
$('body').child('p')
```



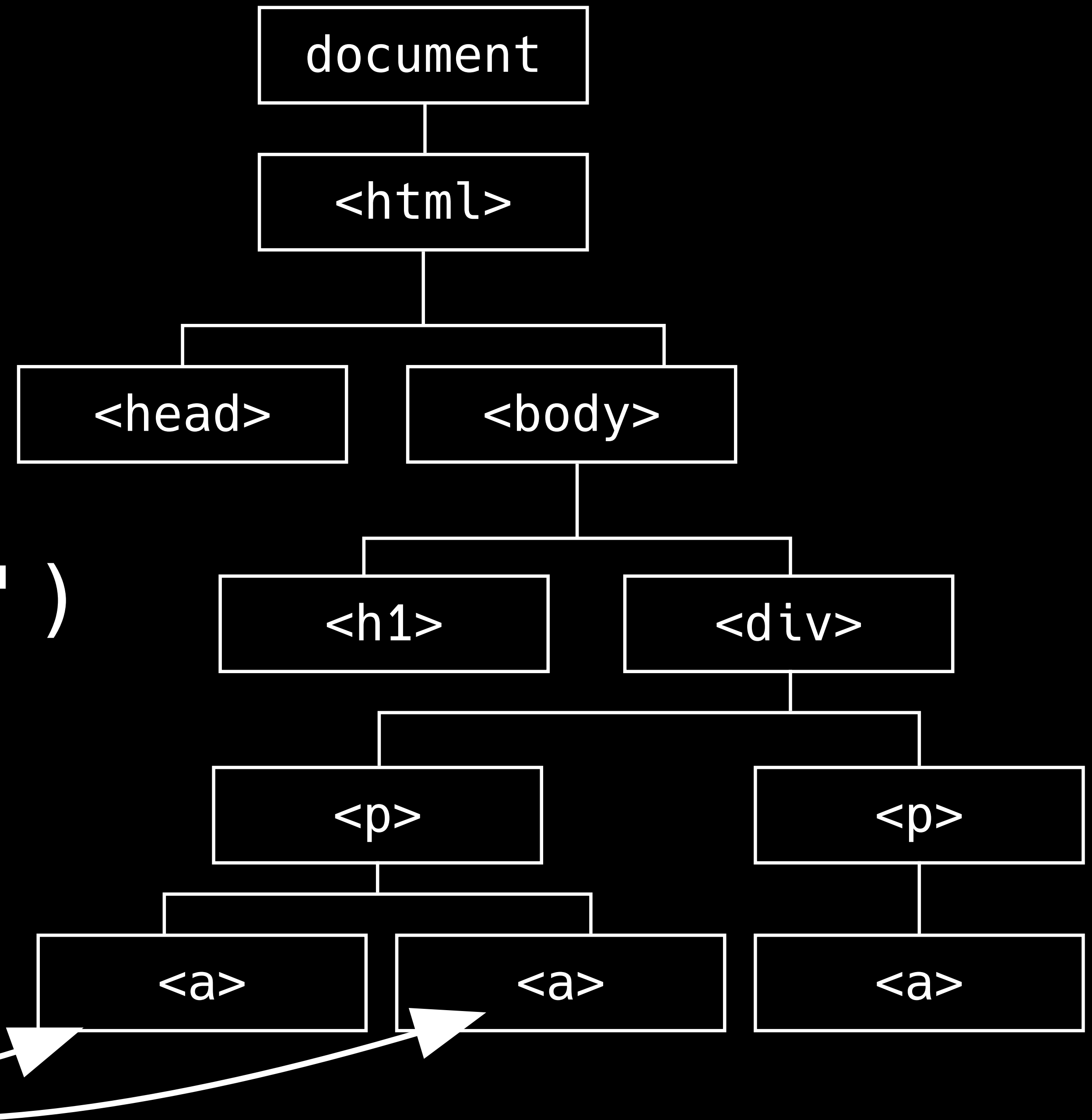
JavaScript: Selectors

```
$('body')  
  .child('p')  
  .child('a')
```



JavaScript: Selectors

```
$('body')  
  .child('p')  
  .child('a')  
  .attr('href',  
        'http://ocad.ca')
```



JavaScript: Selectors

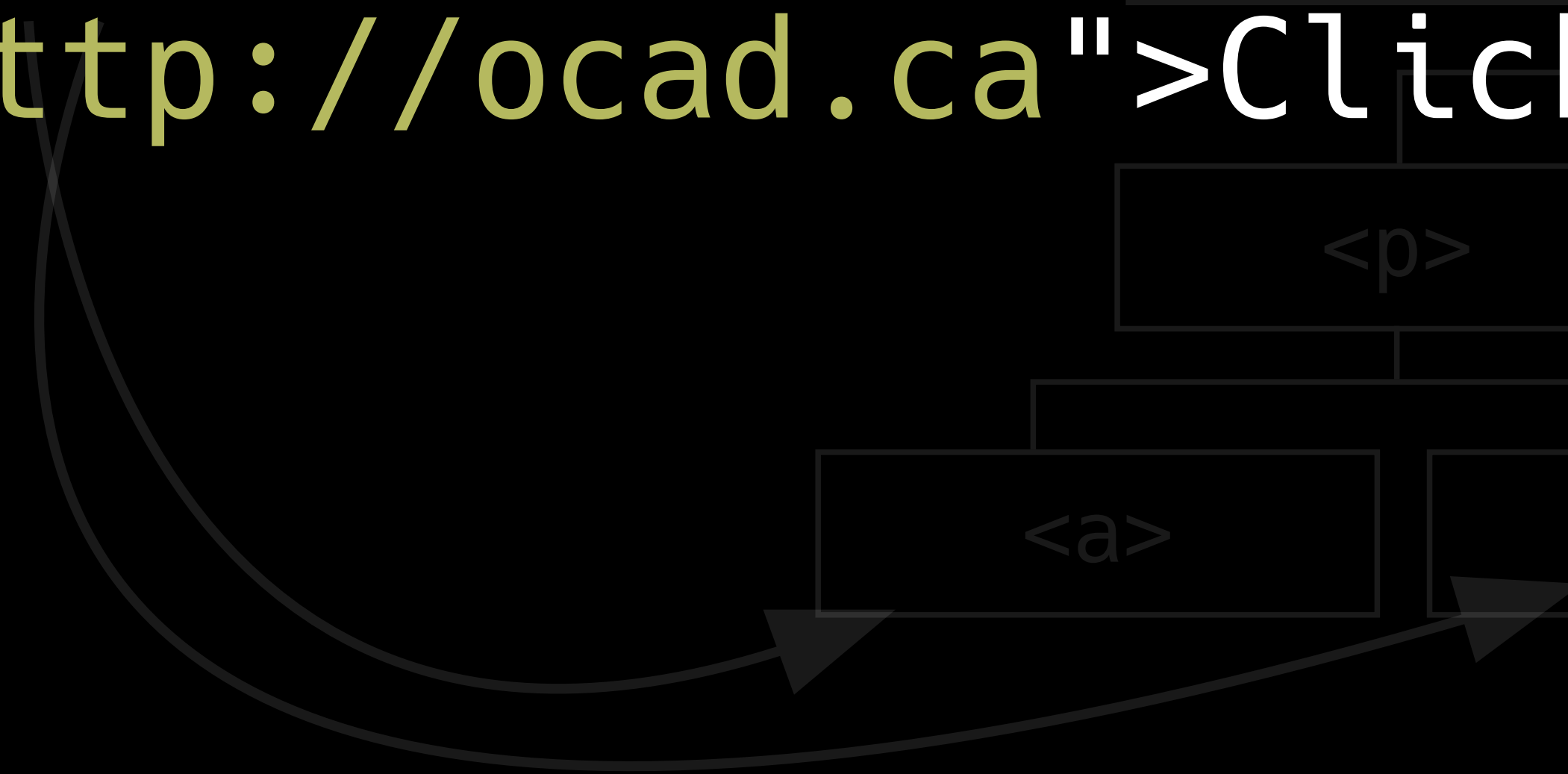
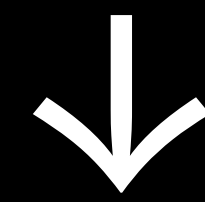
```
$( 'body' )
```

```
<a href="http://google.ca">Click Here</a>
```

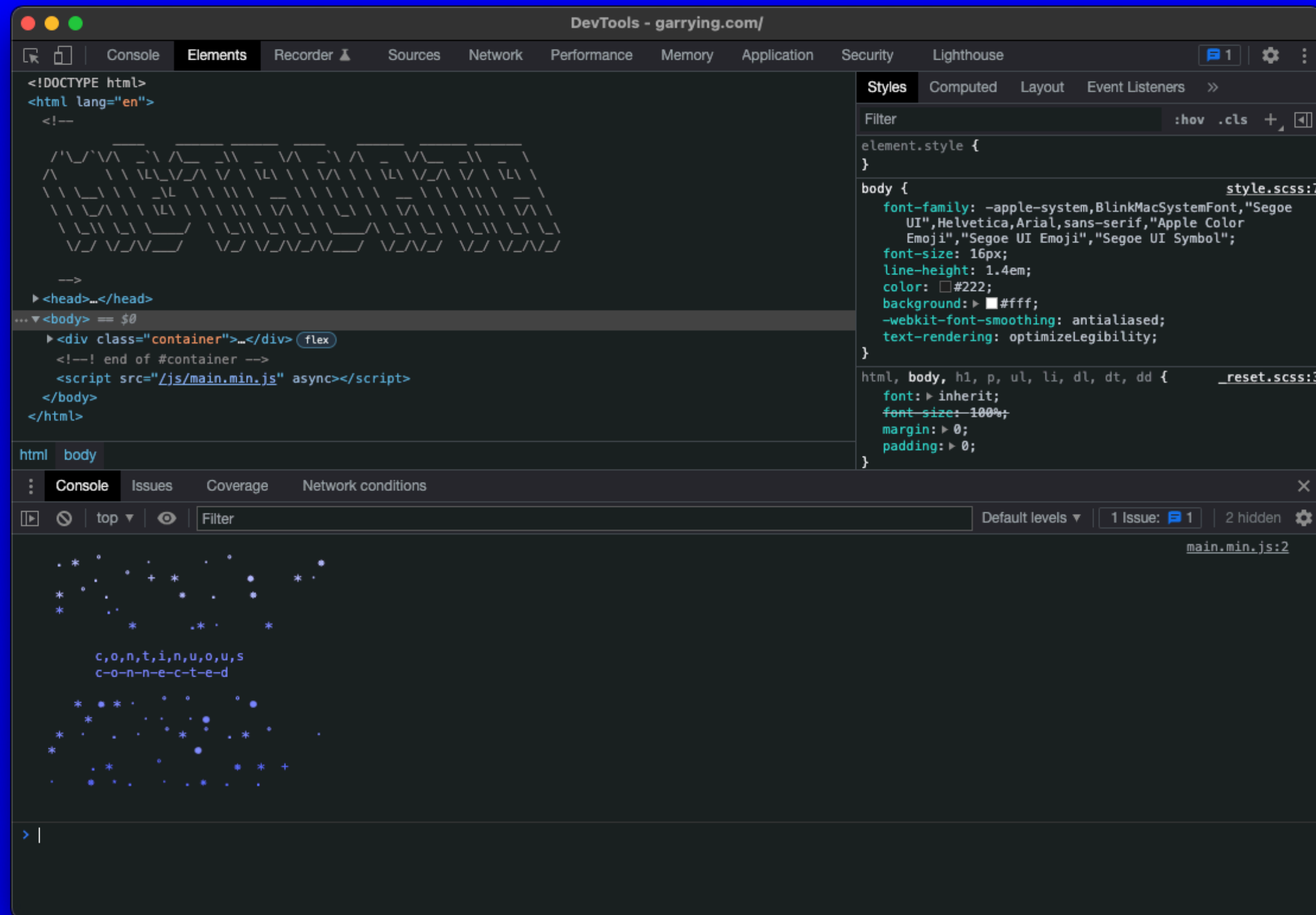
```
.child( 'a' )
```

```
.attr( 'href',  
      'http://...' )
```

```
<a href="http://ocad.ca">Click Here</a>
```



JavaScript: Console



→ Chrome: ⌘ + ⌘ + P

→ Safari: ⌘ + ⌘ + C

References

Adding jQuery to your HTML:

Add the following before `<script src="main.js"></script>`:

```
<script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
```

jQuery References:

<https://api.jquery.com/category/effects/>

<http://jqfundamentals.com/>

FTP Clients (For uploading your work):

[Free] <https://cyberduck.io>

[\$\$] <https://panic.com/transmit/>

[\$\$] <https://binarynights.com/>

References

Alternatives to hosting your projects on OCAD U Webpace:

<https://glitch.com/>

<https://www.netlify.com/>

<https://pages.github.com/>

Guides:

OCAD U Webpace: <https://github.com/garrying/wworkshop/blob/main/resources/hosting-ocadu-webpace.md>

Glitch.com: <https://github.com/garrying/wworkshop/blob/main/resources/hosting-glitch.md>

GitHub Pages: <https://github.com/garrying/wworkshop/blob/main/resources/hosting-github.md>

Netlify: <https://github.com/garrying/wworkshop/blob/main/resources/hosting-netlify.md>