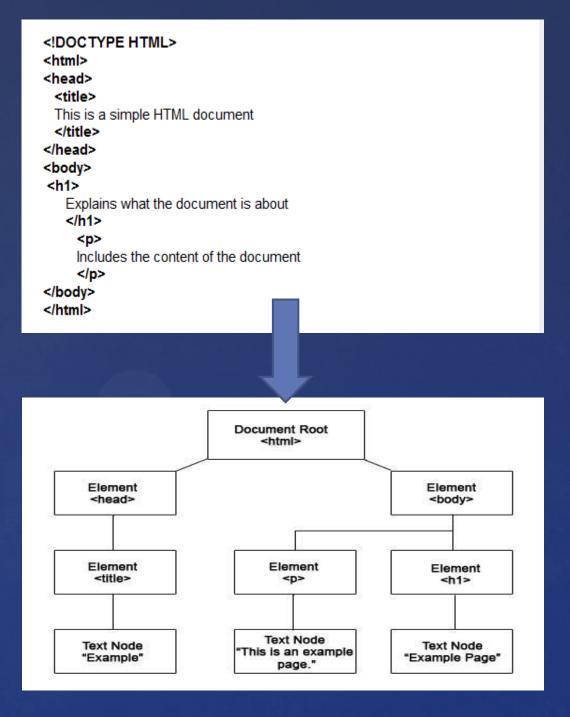
The DOM Document Object Model

What is the DOM?

```
{
The Document Object Model is the interface between your java Script and HTML+CSS
};
```

The browser turns every HTML tag into a JavaScript object that We can manipulate.

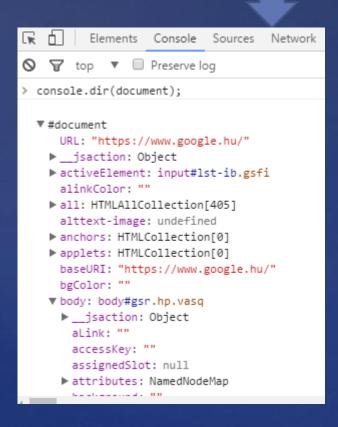
Everything is stored inside of the document object



The DOM

On the console of a web browser, if you write

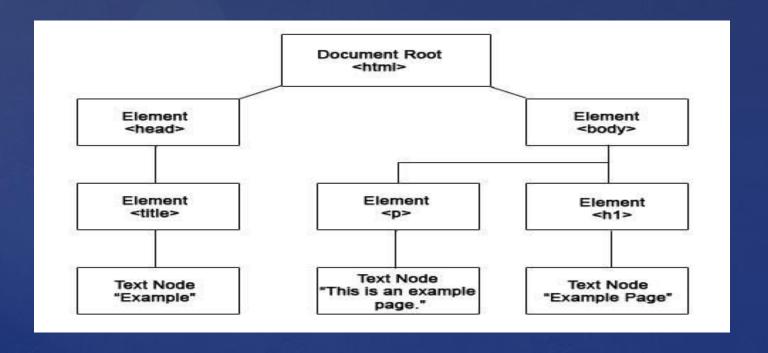
console.dir(document);



Everything is an object

The Process

Select an element and then MANIPULATE var h1 = document.querySelector("h1"); h1.style.color = "pink";



An Animation

```
var body = document .querySelector("body");
                                                            First select it
var isBlue = false;
setInterval(function(){//Manipulate
        if (isBlue) {
          body.style.background = "white";
                                                            Then
        } else {
                                                            Manipulate it
           body.style.background = "#3498db";
        isBlue = !isBlue;
}, 1000 );
```

5 Main Methods

```
document.getElementById();
document.getElementByClassName();
document.getElementByTagName();
document.querySelector();
document.querySelectorAll();
```

DOM Manipulation

We're going to cover different ways of:

- Changing an element's style
- Adding/removing classes
- Changing the content of a tag
- Changing the attributes (src, href, etc.

Style

The style property is one to manipulate an element's style:

```
//Select
var tag = document .getElementById("highlight");
//Manipulate
tag.style.color = "blue";
tag.style.border = "10px solid red";
tag.style.fontsize = "70px";
tag.style.background = "yellow";
tag.style.marginTop = "200px";
```

textContent

Returns a string of all text contained in a given element

```
// select the  tag
var tag = document .querySelector( " p ");
//Retrieve the text content
tag.textContent
//alter the textContent
tag.textContent = "blah blah blah";
```

Attributes

User getAttribute() and setAttribute() to read and write

Attributes like src or href

```
var link = document .querySelector("a");
link.getAttribute("href");
link.setAttribute("href" , "www.blahblah.com ");
```