What Will We Do Today?

What If?

Making JavaScript talk to HTML
What If....
What If....

```javascript
function greet(visitor){
    alert("Hello " + visitor);
}

greet("Martin");
```
function greet(visitor, language) {
    if (language == "German") {
        alert("Grüß Gott, " + visitor);
    } else {
        alert("Hello " + visitor);
    }
}
greet("Martin", "German");
greet("Cassandra", "English");
Your Turn!
Mind the Syntax!
if (){

}else{

}
Mind the Syntax!

if ( something is true ){
    then do this
}else{
    do this if it's not
}
The Annoying =

=, ==, ===, what gives?
The Annoying =

In JavaScript:

= assigns values
== compares values
Other Operators

= assigns values

== Equal ?

> Greater than ?

< Smaller than ?

>= Greater or Equal ?

<= Smaller or Equal ?
The Answer Is...

4 > 6    FALSE  0
4 < 6    TRUE    1
4 >= 6   FALSE  0
4 <= 6   TRUE    1

That's what we call Boolean
Back to HTML
Last week we learned how to change a paragraph...

target.innerHTML="You changed me!";
<script language="JavaScript">
  function changeMeMe(target){
    target.innerHTML="You changed me!";
  }
</script>

<p onClick="changeMeMe(this);">I am a paragraph</p>
That was fun...

...but can we change anything else?

Like another paragraph maybe?
<script language="JavaScript">
    function goUp(){
        var target = document.getElementById();
    }
</script>

<button onclick="goUp();">
    Click Me! Click Me!
</button>
<div>0</div>
Technically, document is an object that contains the entire web page. You can access and control just about anything through the document object. For example, we can look up any element by its id. Some objects may not have an id, but as we add them to the HTML code, we can assign them one. Once they have an id, they become readily accessible, although due to the way JavaScript works, we have to use a function to actually get to whatever element in the document object we would like to retrieve. That function is called `getElementById`. But again, luckily you don't need to know all this yet.
One thing you **must** know!

**Capitalization matters!!!**

```javascript
getElementById();
```

```javascript
getElementById();
```
<script language="JavaScript">
  function goUp(){
    var target=document.getElementById("count");
    var result = target.innerHTML;
    result=parseInt(result);
    target.innerHTML= result +1;
  }
</script>

<button onClick="goUp();">Click Me! Click Me!</button>
<div id="count">0</div>