

Web and Database Computing

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Introduction to JavaScript: JavaScript Tips

More things to watch out for

That might catch out new JavaScript Programmers

Null

- Usually happens when trying to select elements that don't exist
- Can be mitigated using if check or try-catch block

HTML Result



Edit in JSFiddle

```
<html>
 <head>
   <title>Null</title>
 </head>
 <body>
   <h2>null test</h2>
   <script>
       document.getElementById("demo").innerText = "Hello World!";
           alert("It worked!");
       } catch (e) {
         alert("It broke!");
   </script>
 </body>
</html>
```

Automatic type conversions

```
== VS ===
```

- JavaScript does automatic type conversions.
- Comparing two equivalent values will yield a true result
- Can result in unexpected behaviour
 - A common example is checking if something is 0

```
if (x == 0) { ... }
```

- If a null value is passed instead, it will still evaluate true
- Mitigate using === instead of ==
 - This will compare value and type

```
if (x === 0) { ... }
```

- If in doubt, use ===
- TypeScript is a superset of the JavaScript language that includes types



Credit: William Herrera

Variable scope & closures

What's happening?

- The onclick function is evaluated when the click occurs
- The last value of i is 5

Remember variable scope is explicitly declared!

- If in doubt, use let.
- Can also mitigate using closures
 - See

```
JavaScript
           Result
                                                                    Edit in JSFiddle
function addLinks () {
  for (var i=0, link; i<5; i++) {
    link = document.createElement("a");
    link.innerHTML = "Link " + i;
    link.onclick = function () {
        alert(i);
    document.body.appendChild(link);
addLinks();
```

https://robertnyman.com/2008/10/09/explaining-javascript-scope-and-closures/



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