



**UCLL**  
UNIVERSITY OF  
APPLIED SCIENCES

# Lab 4:

# JavaScript

Web Development and Scripting 2022-2023

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## Introduction

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### Lab concept

Time for interactivity and a bit of dynamism. We start with the integration of Javascript in our website.

### Supplies

- Development environment
- Browsers

### Evaluation

Submit your website with:

- a working script for the newsletter
- an adapted script in which you demonstrate that you understand the subject matter

### Practicing Javascript

Add an option to subscribe to the newsletter at the bottom of your home page.

```
<form action="">
  <fieldset>
    <legend>Email subscriptions</legend>
    <p id="subscribepara">
      <tag>
        <input type="checkbox" name="subscribe" id="subscribe">
        Yes! I would like to receive the occasional newsletter via email.
      </label>
    </p>
    <p id="emailpara">
      <label>
        Email Address:
        <input type="text" name="email" id="email">
      </label>
    </p>
  </fieldset>
</form>
```

The goal of this challenge is to show the email paragraph only when the checkbox is checked.

#### Step 1: Hide the email fields by default

Add some CSS so that the "emailpara" paragraph is not shown when the page loads (use the "display" property). Test your work.

### Step 2: a template for one function

Create a new function called `toggleEmail()`. For now, that function only shows an alert, like this `window.alert("Yes, my function is being called");`

Add an event so that when the checkbox is clicked, the function is called and test it out!

**Success? Put your code in comments `/* .....*/`**

### Step 3: Display the email fields

Now we replace the `alert()` code with code that does something useful! Javascript allows us to style any element on a page using the `style` object.

```
document.getElementById("subscribepara").style.backgroundColor = "blue";
```

In Dutch this statement says:

1. Give me the element with id "subscribepara" from my document .
2. Give me its object style
3. And set the `backgroundColor` to blue.

Try adding (copy-paste) the above code to your function and see what happens.

Note that the names of the css properties are a bit different in Javascript. W3schools has a good reference on [HTML DOM Style object](#).

Now try to make the correct adjustments yourself so that the paragraph "emailpara" is displayed when the function is called.

### Step 4: And the Toggle?

At this point you can click on the checkbox and the email field will appear. But when you click again... the field doesn't disappear.

The challenge is to write an if-else statement in our `toggleEmail()` function. This statement checks whether the checkbox is checked or not. Is that right? Then we show "emailpara", otherwise not.

Have a look at the W3schools [HTML DOM Checkbox reference](#). There you will find that a checkbox has a property "checked". We can use that property like this:

```
document.getElementById("idinputelement").checked
```

Interpret and modify the existing script

Now integrate all this nicely into your bootstrap website (from your previous lab).

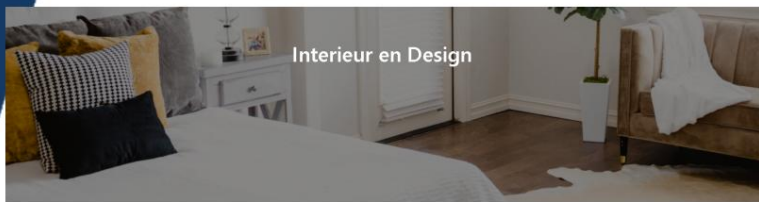
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### Additional assignment: SEO

On the teams you can find an article with a link about search engine optimization.

Apply 5 things in your Bootstrap website that are important for better indexing. Demonstrate them with comments in your code.

## Example



### Uw kamer onze missie!

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☒ Ja! Ik wil me inschrijven voor jullie maandelijkse nieuwsbrief.

Typ dan hier snel je emailadres!  
test@example.com

