

Bootstrap & Project

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Dropdowns

A dropdown is a toggle-able menu that allows the user to choose one value from a list

Create:

- A div with the class “dropdown”
- A button or link with the class “dropdown-toggle” and the attribute data-toggle=“dropdown”
- An unordered list with the class “dropdown-menu” to actually build the dropdown menu

For a divider, use an empty list item with the class “divider”

For a header, use a list item with the class “dropdown-header”

To align text to the right, add “dropdown-menu-right” to the element with “dropdown-menu”

To make the dropdown menu extend up, change the div class to “dropup”

Forms

Use `<form role="form">`

Group inputs using `<div class="form-group">`

Add class `"form-control"` to all inputs, use `<label>` for labels

Default is a vertical form, for others:

- Add `"form-inline"` to the form element to have an inline form
- Add `"form-horizontal"` to the form element, `"control-label"` to all labels

Input types supported

- All HTML5 inputs (see previous PDFs)
- `textarea`
- `checkbox`
- `radio`
- `select`

Additional Content

Navigation: http://www.w3schools.com/bootstrap/bootstrap_navbar.asp

Carousel: http://www.w3schools.com/bootstrap/bootstrap_carousel.asp

Project

Make your website great again!

Improve your website to make it amazing using Bootstrap, HTML, and your custom CSS!

It should have:

- 3-5 pages
- Content about yourself/another topic
- Plenty of images
- Hosted on github.io

You will be evaluated on content, style, and adherence to instructions

JavaScript

The programming language of the web

Used to manipulate HTML and CSS

Has many extensions, frameworks, and platforms

As a programming language, it has a set of rules

- Syntax
- Structure
- Objects and Functions (we'll talk about this shortly)

JavaScript in HTML

JavaScript (JS) can be placed in HTML using the `<script>` tag

It is highly recommended to keep all JavaScript in one script tag

Script tags can be placed in the HEAD or the BODY

- We recommend the HEAD for functions, and the BODY for statements

Examples:

```
document.getElementById('demo').innerHTML = 'This is JavaScript';
```

- Gets the HTML element with the ID demo, sets it's HTML to "This is JavaScript"

```
document.getElementById('demo').style.fontSize = '2em';
```

- Doubles the size of the font

JavaScript Functions

A **function** is a block of code that can be executed when “asked for” or “called”

- When an **event** occurs (e.g. button click)
- When something has changed
- Etc.

Functions have names called **identifiers**, and can have inputs called **parameters**

Functions may give an output, called a **return**

Functions are essentially black boxes with (optional) inputs and (optional) outputs

Syntax:

```
function myFunction() {  
    document.getElementById('demo').innerHTML = 'Button Pressed';  
}
```


Example: Lightbulbs

We will make a lightbulb turn on/off with two buttons

Ensure you have `pic_bulbon.gif` and `pic_bulboff.gif`

External JavaScript

JavaScript is usually kept in a separate file for organization purposes

They have the file extension **.js**

To use an external JS file, put the name of the file as the src attribute of a `<script>` tag

Example:

```
<script src="script.js"></script>
```

Script tags must be empty if the src attribute is used

They can be placed either inside the body or the head, we will almost always use the HEAD

JavaScript Syntax

JavaScript runs sequentially (top to bottom)

Each line represents a **statement**, and performs some action

Statements are terminated by semicolons

JavaScript has two types of values: **literals** and **variables**

- Literals cannot be changed, e.g. 'hi'
- Variables can be changed, we will talk more about variables later

JavaScript Output

JavaScript has no predefined output/display functions

We can display data by:

- Writing to an alert box **window.alert('hi');**
- Writing to the HTML output directly (NOT RECOMMENDED) **document.write('do not do this');**
- Writing to an HTML element **document.getElementById('derp').innerHTML = 'hi';**
- Writing to the browser console **console.log('this is cool');**