



Technical University of Sofia  
Faculty of Computer Systems and Control

# Web Programming

Lecture 5

JavaScript – part 2

# JAVASCRIPT AND FORMS

# Page Title

```
<!DOCTYPE html>
<html>
<head>
<title>W3Schools Demo</title>
</head>
<body>
<p id="demo"></p>
<script>
document.getElementById("demo").innerHTML =
    "The title of this document is: " + document.title;
</script>
</body>
</html>
```

# Disable a button

```
<input type="button" id="btn01" value="OK">
```

`<p>Click the "Disable" button to disable the "OK" button:</p>`

```
<button onclick="disableElement()">Disable</button>
```

```
<script>
function disableElement() {
    document.getElementById("btn01").disabled = true;
}
</script>
```

# Disable/Enable a select

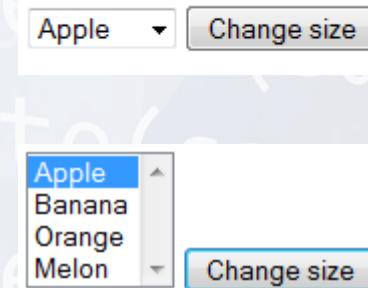
```
<script>
function disable() {
    document.getElementById("mySelect").disabled=true;
}
function enable() {
    document.getElementById("mySelect").disabled=false;
}
</script>

<select id="mySelect">
    <option>Apple</option>
    <option>Pear</option>
</select>
<br><br>
<input type="button" onclick="disable()" value="Disable list">
<input type="button" onclick="enable()" value="Enable list">
```

# Select – multiline list

```
<script>
function changeSize() {
    document.getElementById("mySelect").size = 4;
}
</script>

<form>
<select id="mySelect">
    <option>Apple</option>
    <option>Banana</option>
    <option>Orange</option>
    <option>Melon</option>
</select>
<input type="button" onclick="changeSize()" value="Change size">
</form>
```



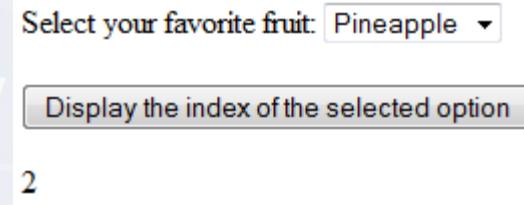
# Selected option

```
<script>
    functiongetOption() {
        var obj = document.getElementById("mySelect");
        document.getElementById("demo").innerHTML=obj.options[obj.selectedIndex].text;
    }
</script>
Select your favorite fruit:
<select id="mySelect">
    <option>Apple</option>
    <option>Orange</option>
    <option>Pineapple</option>
    <option>Banana</option>
</select>  <br><br>
<input type="button" onclick="getOption()" value="Click Me!">
<p id="demo"></p>
```



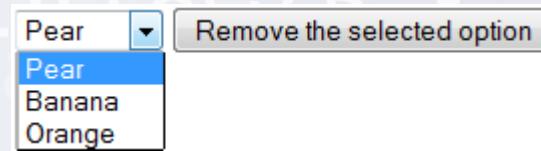
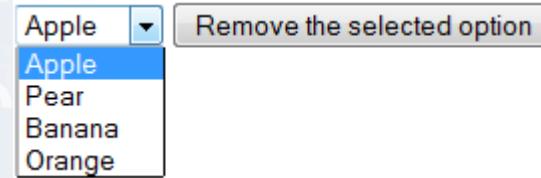
# Selected option (index)

```
<script>
    function getIndex() {
        document.getElementById("demo").innerHTML =
        document.getElementById("mySelect").selectedIndex;
    }
</script>
Select your favorite fruit:
<select id="mySelect">
    <option>Apple</option>
    <option>Orange</option>
    <option>Pineapple</option>
    <option>Banana</option>
</select>  <br><br>
<input type="button" onclick="getIndex()" value="Display the index " />
<p id="demo"></p>
```



# Remove options

```
<script>
function removeOption() {
    var x = document.getElementById("mySelect");
    x.remove(x.selectedIndex);
}
</script>
<form>
<select id="mySelect">
    <option>Apple</option>
    <option>Pear</option>
    <option>Banana</option>
    <option>Orange</option>
</select>
<input type="button" onclick="removeOption()" value="Remove the selected
option">
</form>
```



# name

```
<button id="btn1" name="subject" type="submit" value="HTML">HTML</button>

<p>Click the "Try it" button to display the name of the "HTML" button:</p>

<button onclick="myFunction()">Try it</button>

<p id="demo"></p>

<script>
function myFunction() {
    var x = document.getElementById("btn1").name;
    document.getElementById("demo").innerHTML = x;
}
</script>
```

# type

```
<button id="btn1" type="button">HTML</button>
```

<p>Click the "Try it" button to return the type of the "HTML" button:</p>

```
<button onclick="myFunction()">Try it</button>
```

```
<p id="demo"></p>
```

```
<script>
function myFunction() {
    var x = document.getElementById("btn1").type;
    document.getElementById("demo").innerHTML = x;
}
</script>
```

# value

```
<form id="frm1" action="form_action.asp">
<button id="btn1" name="subject" type="submit" value="fav_HTML">HTML</button>
<button id="btn2" name="subject" type="submit" value="fav_CSS">CSS</button>
</form>

<p>Click the "Try it" button to return the value of the "HTML" button:</p>
<button onclick="myFunction()">Try it</button>

<p id="demo"></p>
<script>
function myFunction() {
    var x = document.getElementById("btn1").value;
    document.getElementById("demo").innerHTML = x;
}
</script>
```

# text displayed on a button

```
<form id="frm1" action="form_action.asp">
<button id="btn1" name="subject" type="submit" value="fav_HTML">HTML</button>
<button id="btn2" name="subject" type="submit" value="fav_CSS">CSS</button>
</form>

<p>Click the "Try it" button to return the text on the "HTML" button:</p>

<button onclick="myFunction()">Try it</button>

<p id="demo"></p>

<script>
function myFunction() {
    var x = document.getElementById("btn1").innerHTML;
    document.getElementById("demo").innerHTML = x;
}
</script>
```

# Reset a Form

<p>Enter names in the fields below, then click "Reset" to reset the form.</p>

```
<form id="frm1">
First name: <input type="text" name="fname"><br>
Last name: <input type="text" name="lname"><br><br>
<input type="button" onclick="myFunction()" value="Reset">
</form>

<script>
function myFunction() {
    document.getElementById("frm1").reset();
}
</script>
```

# Find elements in a form

```
<form id="frm1" action="form_action.asp">
    First name: <input type="text" name="fname" value="Donald"><br>
    Last name: <input type="text" name="lname" value="Duck"><br><br>
    <input type="submit" value="Submit">
</form>
<p>Click "Try it" to display the value of each element in the form.</p>
<button onclick="myFunction()">Try it</button>
<p id="demo"></p>
<script>
    function myFunction() {
        var x = document.getElementById("frm1");
        var text = "";      var i;
        for (i = 0; i < x.length ;i++) {
            text += x.elements[i].value + "<br>";
        }
        document.getElementById("demo").innerHTML = text;
    }
</script>
```

# Browser Info

```
<p>What is the name(s) of your browser?</p>

<button onclick="myFunction()">Try it</button>

<p id="demo"></p>

<script>
function myFunction() {
    document.getElementById("demo").innerHTML =
    "Name is " + navigator.appName +
    "<br>Code name is " + navigator.appCodeName;
}
</script>
```

# jQuery

# public void onClick(View view

# What is jQuery

- An open source JavaScript library that simplifies the interaction between HTML and JavaScript.
- Created by John Resig in 2005, released in January of 2006.
- **jQuery** is the most popular JavaScript framework on the Internet today.
- Built in an attempt to simplify the existing DOM APIs and abstract away cross-browser issues.
- It uses CSS selectors to access and manipulate HTML elements (DOM Objects) on a web page.
- jQuery also provides a companion UI (user interface) framework and numerous other plug-ins.

# What Is The DOM?

- Long story short, the DOM is your html document code. From the <!DOCTYPE> to the </html>
- The DOM is loaded top to bottom, so include your scripts at the bottom of the page for best performance.
- The DOM is "ready" when everything on the page has loaded.
  - Stylesheets
  - JavaScripts
  - Images

# How to include jQuery

- Simply add the link or add the file to your site and address it locally
- **In order to use jQuery you need to load it.**
- You can include it locally on your own server:
  - `<script src="/js/jquery.js">`
- Or use one of the CDN's made available:
  - [ajax.googleapis.com/ajax/libs/jquery/1.4.2/jquery.min.js](https://ajax.googleapis.com/ajax/libs/jquery/1.4.2/jquery.min.js)
  - [ajax.microsoft.com/ajax/jquery/jquery-1.4.2.js](https://ajax.microsoft.com/ajax/jquery/jquery-1.4.2.js)
  - CDN's are Gzipped and minified

```
<script  
src="https://ajax.googleapis.com/ajax/libs/jquery/1.11.1/jquery.min.js">  
</script>
```

# Ready Event

- In order to make sure that jQuery can find the element you asked it for, your browser needs to have loaded it (the DOM needs to be ready).

Q. How can I be sure my code runs at DOM ready?

A. Wrap all your jQuery code with the document ready function:

```
$(document).ready(function(){  
    // insert sweet, sweet jQuery code here...
```

```
});
```

# JavaScript vs jQuery

Example 1 - Hide an element with id "textbox"

**//javascript**

```
document.getElementById('textbox').style.display = "none";
```

**//jQuery**

```
$('#textbox').hide();
```

Example 2 - Create a <h1> tag with "my text"

**//javascript**

```
var h1 = document.createElement("h1");
```

```
h1.innerHTML = "my text";
```

```
document.getElementsByTagName('body')[0].appendChild(h1);
```

**//jQuery**

```
($('body').append( $("<h1>").html("my text") );
```

# Finding things - selectors

- TagName

*document.getElementsByTagName("tagName");*  
\$("tagName") - \$("div"), \$("p"), \$("div"),.....

- Tag ID

*document.getElementById("id");*  
\$("#id") - \$("#name"), \$("#address")

- Tag Class

*document.getElementsByClassName("className");*  
\$(".className") - \$(".comment"), \$(".code")

- To select all elements - \$("\*")

# Example

```
<!DOCTYPE html>
<html>
<head>
<script
src="http://ajax.googleapis.com/ajax/libs/jquery/1.11.1/jquery.min.js">
</script>
<script>
function myFunction() {
    $("#h01").attr("style", "color:red").html("Hello jQuery")
}
$(document).ready(myFunction);
</script>
</head>

<body>
<h1 id="h01"></h1>
</body>
</html>
```

# More examples

Site with jQuery

<http://ejohn.org/apps/workshop/intro/#11>

Thank you for  
your attention!

