Basics in jQuery

Topics

- 1. Introduction
- 2. jQuery HTML
- 3. jQuery Traversing
- 4. jQuery AJAX

Introduction

Introduction: How to import

1. Download the minified file and import as script

```
<head>
<script src="jquery-3.7.1.min.js"></script>
</head>
```

2. Include from a CDN

```
<head>
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.7.1/jquery.min.js"></script>
</head>
```

Introduction: General Syntax

```
$(selector).action()

// examples
$(this).hide(); // hides the current element
$("p").hide(); // hides all  elements
$(".test").hide() // hides all elements with class="test"
$("#test").hide() // hides the element with id="test"
```

General tip: make sure to execute jQuery method only after the page is completely loaded

Introduction: Selectors

1. Element Selector

```
$(document).ready(function(){
    $("button").click(function(){
        $("p").hide();
    })
})
```

2. #id Selector

```
$(document).ready(function(){
    $("p").click(function(){
        $("#test").hide();
    })
})
```

Introduction: Selectors (2)

3. .class Selector

```
$(document).ready(function(){
    $("button").click(function(){
        $(".test").hide();
    })
})
```

Introduction: Event

Common events: ready, click, dblclick, mouseenter, mouseleave, mousedown, mouseup, hover, focus, blur, on

jQuery Effects: Hide and Show

1. Example hide

```
// general syntax: $(selector).hide(speed, callback)
$(#hide).click(function(){
    $("p").hide();
});
```

2. Example show

```
// general syntax: $(selector).show(speed, callback)
$("#show").click(function(){
    $("p").show();
})
```

jQuery Effects: Fading

- 1. fadeln()
- 2. fadeOut()
- 3. fadeToggle()
- 4. fadeTo()

jQuery Effects: Slide

jQuery Effects: Animate

jQuery Effects: stop()

jQuery Effects: Callback

jQuery Effects: Chaining

jQuery HTML: Topics

- 1. Get
- 2. Set
- 3. Add
- 4. Remove
- 5. CSS Classes
- 6. css()
- 7. Dimensions

jQuery HTML: get

```
    text()
    html()
    val()
    attr()
```

```
$("#btn1").click(function(){
    alert("Text: " + $("#test").text());
});
$("#btn2").click(function(){
    alert("HTML: " + $("#test").html());
});
```

jQuery HTML: set

```
    text(), text(callback_function())
    html(), html(callback_function())
    val(), val(callback_function())
    attr(), attr(callback_function())
```

```
$("#btn1").click(function(){
   $("#test1").text("Hello world!");
});
$("#btn1").click(function(){
   $("#test1").text(function(i, origText){
     return "Old text: " + origText + " New text: Hello world!
     (index: " + i + ")";
   });
});
```

jQuery HTML: add

- 1. append() inserts content at the end of the selected elements
- 2. prepend() Inserts content at the beginning od the selected elements
- 3. after() Inserts content adter the selected elements
- 4. before() Inserts content before the selected elements

jQuery HTML: remove

- 1. remove() Removes the selected element (and its child elements)
- 2. empty() Removes the child elements from the selected element

```
$("#div1").empty();
```

3. filter the elements to be removed

```
$("p").remove(".test, .demo");
```

jQuery HTML: CSS Classes

- 1. addClass() Adds one or more classes to the selected elements
- 2. removeClass() Removes one or more classes from the selected elements
- 3. toggleClass() Toggles between adding/removing classes from the selected elements
- 4. css() Sets or returns the style attribute

```
$("button").click(function(){
   $("h1, h2, p").addClass("blue");
   $("div").addClass("important");
});
```

jQuery HTML: css()

- 1. Return a CSS Property
- 2. Set a CSS Property
- 3. Set Multiple CSS Properties

```
css("propertyname"); // returns a property
css({"propertyname":"value","propertyname":"value",...}); // setting multi props
```

jQuery HTML: Dimensions

width()
 height()
 innerWidth()
 innerHeight()
 outerWidth()
 outerHeight()

```
$("button").click(function(){
  var txt = "";
  txt += "Outer width: " + $("#div1").outerWidth() + "</br>";
  txt += "Outer height: " + $("#div1").outerHeight();
  $("#div1").html(txt);
});
```

jQuery Traversing: Ancestors

```
1. parent()
```

- 2. parents()
- 3. parentsUntil()

```
$(document).ready(function(){
   $("span").parents(); // all parents until html
});

$(document).ready(function(){
   $("span").parents("ul"); // all parents that are ul
});

$(document).ready(function(){
   $("span").parentsUntil("div");
});
```

jQuery Traversing: Descendants

1. children() - returns all direct children of the selected element

```
$(document).ready(function(){
   $("div").children();
});
```

2. find() - returns descendant elemnt of the selected element, to the last descendant

```
$(document).ready(function(){
   $("div").find("span");
});
```

jQuery Traversing: Siblings

- 1. siblings()
- 2. next(), nextAll(), nextUntil()
- 3. prev(), prevAll(), prevUntil()

jQuery Traversing: Filtering

1. first(), last(), eq(), filter(), not()

```
$(document).ready(function(){
   $("div").first();
});
```

jQuery AJAX

- 1. Load
- 2. Get/Post

jQuery AJAX: load

1. \$(selector).load(URL,data,callback);

```
$("button").click(function(){
    $("#div1").load("demo_test.txt", function(responseTxt, statusTxt, xhr){
    if(statusTxt == "success")
        alert("External content loaded successfully!");
    if(statusTxt == "error")
        alert("Error: " + xhr.status + ": " + xhr.statusText);
    });
});
```

jQuery AJAX; get() and post()

1. get request example

```
$.get(URL,callback);
$("button").click(function(){
   $.get("demo_test.asp", function(data, status){
    alert("Data: " + data + "\nStatus: " + status);
   });
});
```

2. post request example

```
$.post(URL,data,callback);
$("button").click(function(){
    $.post("demo_test_post.asp",
    {
       name: "Donald Duck",
       city: "Duckburg"
    },
```