JQuery

CCAPDEV

JQuery

- Lightweight but feature-rich JavaScript library
- Designed to simplify HTML DOM manipulation
- Accessing an element can be done through CSS Selector rules
- Provides an easier way to attach callbacks/event handlers
- "Write Less, Do More"

Adding JQuery

- Import via CDN (Content-Delivery Network)

```
<script src="https://code.jquery.com/jquery-
3.6.0.min.js"></script>
```

- or, import locally:
  - Download from https://code.jquery.com/jquery-3.6.0.min.js, then:

```
<script src="[filepath]"></script>
```

Adding JQuery

```
<script>
  $(document).ready(function(){
    // your code here
  });
</script>
```

$(document).ready ... is used to prevent jQuery code from running before the document is ready.

JavaScript vs JQuery

Finding HTML Element by Id

```
var x = document.getElementById("menu");


                        vs


            var x = $("#menu");
```

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JavaScript vs JQuery

Finding HTML Elements by Tag Name

```
var x = document.getElementsByTagName("p");

                    vs

           var x = $("p");
```

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JavaScript vs JQuery

Finding HTML Elements by Class Name

```
var x = document.getElementsByClassName("post");
```

VS

```
var x = $(".post");
```

JavaScript vs JQuery

Finding HTML Elements by CSS Selectors

```
var x = document.querySelectorAll("p.post");
```

VS

```
var x = $("p.post");
```

JavaScript vs JQuery

Setting Text Content

```
document.getElementById("p1").innerText = "Hello
                   World";
```

VS

```
$("#p1").text("Hello World!");
```

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JavaScript vs JQuery

Getting Text Content

```
var x = document.getElementById("p1").innerText;
```

vs

```
var x = $("#p1").text();
```

JavaScript vs JQuery

Setting HTML Content

```
document.getElementById("d1").innerHTML = "<p>
              Hello World</p>";
```

VS

```
$("#d1").html("<p>Hello World</p>");
```

JavaScript vs JQuery

Getting HTML Content

```
var x = document.getElementById("d1").innerHTML;
                        vs

        var x = $("#d1").html();
```

JavaScript vs JQuery

Styling HTML Elements

```
document.getElementById("p1").style.color="blue";
```

vs

```
var x = $("#p1").css("color", "blue");
```

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JQuery Events

```
$(document).ready()
```

This method executes a function when the document is fully loaded.

```
$(document).ready(function(){
  // your code here
});
```

JQuery Events

click()

Executes when the user clicks on the HTML element.

```
$(document).ready(function(){
  $("p").click(function() {
      $(this).css("color", "red");
  });
});
```

JQuery Events

```
dblclick()
```

Executes when the user double-clicks on the HTML element.

```
$(document).ready(function(){
  $("p").dblclick(function() {
    $(this).css("color", "red");
  });
});
```

JQuery Events

mouseenter()

Executes when the mouse pointer enters the HTML element.

```
$(document).ready(function(){
  $("p").mouseenter(function() {
     $(this).text("Hello World!");
  });
});
```

JQuery Events

mouseleave()

Executes when the mouse pointer leaves the HTML element.

```
$(document).ready(function(){
  $("p").mouseleave(function() {
      $(this).text("Bye World!");
  });
});
```

JQuery Events

`mousedown()`

Executes when the mouse button is pressed down while the mouse is over the HTML element.

```
$(document).ready(function(){
  $("p").mousedown(function() {
    $(this).text("Mouse down!");
  });
});
```

JQuery Events

mouseup()

Executes when the mouse button is released while the mouse is over the HTML element.

```
$(document).ready(function(){
  $("p").mouseup(function() {
    $(this).text("Mouse up!");
  });
});
```

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JQuery Events

hover()
Combined mouseenter() and mouseleave() methods.

```
$(document).ready(function(){
  $("p").hover(function() {
      $(this).text("Mouse up!");
  }, function(){
      $(this).text("You exited!");
  });
});
```

JQuery Events

focus()

Executes when the form field gets focus.

```
$(document).ready(function(){
  $("input").focus(function() {
      $(this).css("background-color", "gray");
  });
});
```

JQuery Events

blur()

Executes when the form field loses focus.

```
$(document).ready(function(){
  $("input").blue(function() {
      $(this).css("background-color", "white");
  });
});
```

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JQuery Events

on()
This method attaches one or more event handlers.

```
$("p").on({
  mouseenter: function() {
      $(this).css("color", "red");
  }, mouseleave: function() {
      $(this).css("color", "black");
  }
});
```

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