

STEM Digital Academy

School of Science & Technology

jQuery

Web Technologies



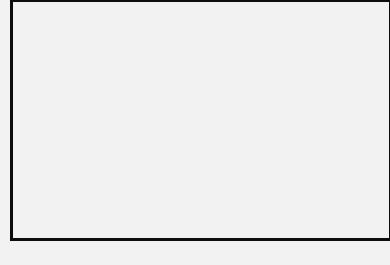
Lecture by Dr Elahe Kani-Zabihi

```
<!doctype html>
<html>
   <head>
     <title>
       Web Technologies
     </title>
     <style>
        р
         color: ■blue;
     </style>
     <script>
     console.log("client-side");
     </script>
   </head>
   <body>
       >
           Welcome!
       </body>
</html>
```



What we will cover

- Introduction to jQuery
- jQuery selector
- jQuery methods





jQuery

```
<html>
    <head>
        <script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
    </head>
    <body>
        <button id="cText"> Click Here to Change</button>
         Here is the text to be changed
        <script>
            $(document).ready(function(){
                                                                                                      Click Here to Change
                $("#cText").click(function(){
                                                                                                     Here is the text to be changed
                     $("#theText").text("This is the new text changed by jQuery method");
            });
                                                                                         Click Here to Change
        });
        </script>
                                                                                         This is the new text changed by jQuery method
    </body>
</html>
```



How to Include jQuery

- Download jQuery library
 - https://jquery.com/download

Use Content Delivery Network (CDN)

```
<head>
     <script src="https://code.jquery.com/jquery3.6.0.min.js"></script>
     </head>
```



jQuery Selector

- Syntax: \$("selector")
 - \$("#cText").click(function(){...});
- By element type
 For example all elements in the entire page
 \$("p")
- By id attribute
 The element with "faqs" as its id \$("#faqs")
- By class attribute
 All elements with "minus" as a class
 \$(".minus")



Relational jQuery Selector

- Descendants \$("#faqs p")
- Adjacent siblings \$("h2 + div")
- General siblings \$("ul ~ p")
- Children \$("div > ul")

Multiple\$("#faqs li, div p")\$("p + ul, div ~ p")



Other jQuery Selector

[attribute] :hidden

[attribute=value] :last

:contains(text) :last-child :parent

:empty :lt(n) :visible

:eq(n) :not(selector) :header

:even :nth-child :has(selector)

:first :odd :text

:first-child :only-child :gt(n)



jQuery Method

Syntax

\$("selector").methodName(parameters)

- Methods
 - val ()
 - val (value)
 - text ()
 - next ([type])
 - submit ()
 - focus ()



jQuery DOM Methods

Traversal (Dom Methods)	Manipulation (Dom Methods)	Others
prev (), next (), find (), closest (), parents (), children (), siblings (), nextAll (), prevAll ()	attr (attribute name, value), css (property name, value), addclass (class name), removeclass (class name), toggleclass (class name), html (string)	hide (duration), show (duration), toggle (speed, easing, callback)



Ready ()

Syntax

The shortcut for the ready event method \$ (function () {

statements

});



Try It Yourself

In this activity you can practice using jQuery in

your HTML page. So,

1. Use the code given in slide 4 to create the webpage that uses jQuery function.

