

jQuery

Web Technologies



Lecture by
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```
<!doctype html>
<html>
  <head>
    <title>
      Web Technologies
    </title>
    <style>
      p {
        color: blue;
      }
    </style>
    <script>
      console.log("client-side");
    </script>
  </head>
  <body>
    <p>
      Welcome!
    </p>
  </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>
    <p id="theText"> Here is the text to be changed</p>
    <script>
      $(document).ready(function(){
        $("#cText").click(function(){
          $("#theText").text("This is the new text changed by jQuery method");
        });
      });
    </script>
  </body>
</html>
```

Click Here to Change

Here is the text to be changed

Click Here to Change

This is the new text changed by jQuery method

How to Include jQuery

- **Download jQuery library**

- <https://jquery.com/download>

```
<head>
```

```
  <script src="jquery3.6.0.min.js"></script>
```

```
</head>
```

- **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 `<p>` 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
\$("#faq p")
- Adjacent siblings
\$("h2 + div")
- General siblings
\$("ul ~ p")
- Children
\$("div > ul")

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

Other jQuery Selector

[attribute]

[attribute=value]

:contains(text)

:empty

:eq(n)

:even

:first

:first-child

:hidden

:last

:last-child

:lt(n)

:not(selector)

:nth-child

:odd

:only-child

:parent

:visible

:header

:has(selector)

:text

: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 (), parent (), parents (), children (), siblings (), nextAll (), prevAll ()	attr (<i>attribute name</i> , <i>value</i>), css (<i>property name</i> , <i>value</i>), addClass (<i>class name</i>), removeClass (<i>class name</i>), toggleClass (<i>class name</i>), html (<i>string</i>)	hide (<i>duration</i>), show (<i>duration</i>), toggle (<i>speed, easing, callback</i>)

Ready ()

- **Syntax**

```
$ (document).ready (function ( ) {  
    statements  
});
```

- **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.