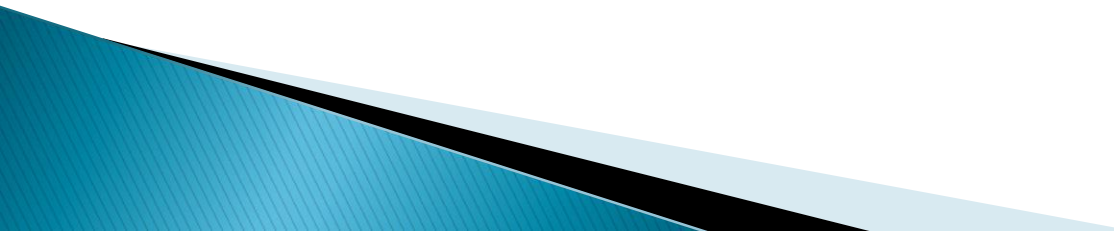


# What is jQuery

- ▶ jQuery is a small and lightweight JavaScript library.
  - ▶ jQuery is cross-platform.
  - ▶ jQuery means "write less do more".
  - ▶ jQuery is a fast, small, and feature-rich JavaScript library. It makes things like HTML document traversal and manipulation, event handling, animation, and Ajax much simpler with an easy-to-use API that works across a multitude of browsers. With a combination of versatility and extensibility, jQuery has changed the way that millions of people write JavaScript.
- 

# Adding jQuery

- ▶ Download the jQuery library from [jquery.com](http://jquery.com)
- ▶ Include jQuery from a CDN, like Google

# Download the jQuery library

Download from

<https://code.jquery.com/jquery-3.6.0.min.js>

(Open link in browser and right click-> save as)

```
<head>
```

```
<script src="jquery-3.6.0.min.js"></script>
```

```
</head>
```



# Include jQuery from a CDN

The jQuery CDN is a way to include jQuery in your website without actually downloading and keeping it your website's folder.

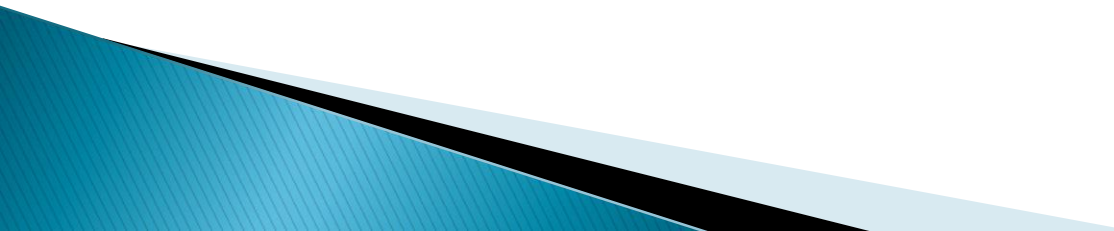
```
<head>
```

```
<script src="https://ajax.googleapis.com/ajax/  
libs/jquery/3.6.0/jquery.min.js"></script>
```

```
</head>
```



# Benefits of jQuery CDN

- ▶ Reduced server load
  - ▶ Faster content delivery(browser caching)
  - ▶ Constant availability
  - ▶ Better traffic management
- 

# Syntax

- ▶ Syntax → `$(selector).action()`
- ▶ `$` → to access jQuery. Query selectors start with the dollar sign and parentheses – `$()`.
- ▶ **selector** → to find the HTML elements
- ▶ **Action()** → what action is to be performed

# jQuery selectors

- ▶ Selectors are used to select one or more HTML elements using jQuery.
- ▶ Once an element is selected then we can perform various operations on that selected element.

# jQuery selectors

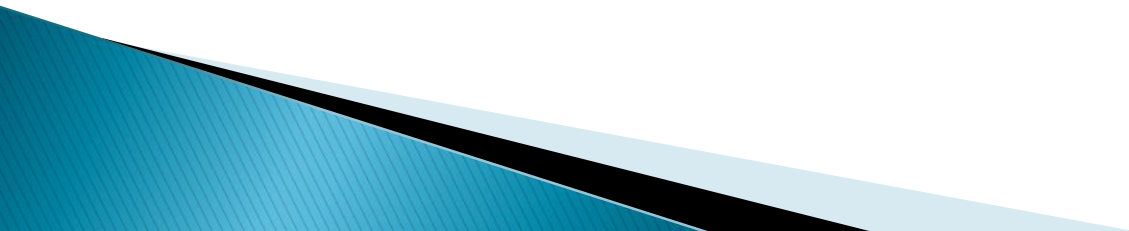
1	<b>Tag Name</b> Represents a tag name available in the DOM. For example <code>\$('p')</code> selects all paragraphs <code>&lt;p&gt;</code> in the document.
2	<b>Tag ID</b> Represents a tag available with the given ID in the DOM. For example <code>\$('#any-id')</code> selects the single element in the document that has an ID of <code>any-id</code> .
3	<b>Tag Class</b> Represents a tag available with the given class in the DOM. For example <code>\$('.any-class')</code> selects all elements in the document that have a class of <code>any-class</code> .



# jQuery Example

```
<html>
<head>
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"
></script>
</head>
<body>
<h1>This is first paragraph.</h1>
<script type="text/javascript" language="javascript">
$(document).ready(function() {
$("h1").css("font-size", "70px");
$("h1").css("color", "red");
});
</script>
</body>
</html>
```

# jQuery DOM manipulation



# jQuery get(to get content)

`text()` – Sets or returns the text content of selected elements

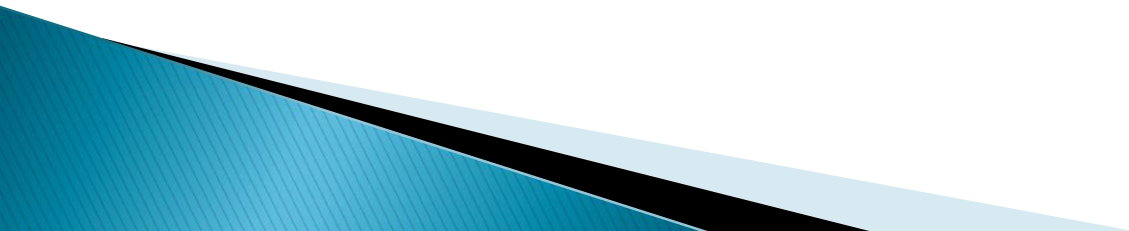
`html()` – Sets or returns the content of selected elements (including HTML markup)

`val()` – Sets or returns the value of form fields

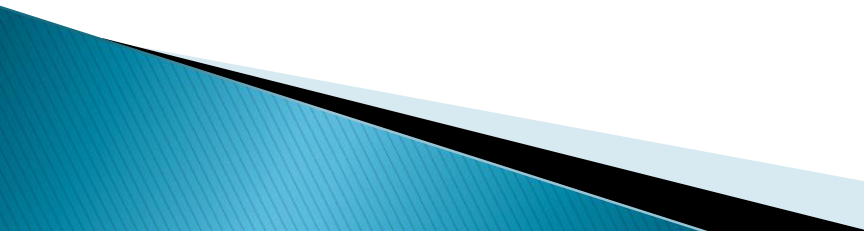
# jQuery attr()

attr() – This method sets or returns attributes and values of the selected elements.

removeAttr() – This method removes one or more attributes from the selected elements.



# Inserting HTML content

- ▶ `append()` – Inserts content at the end of the selected elements
  - ▶ `prepend()` – Inserts content at the beginning of the selected elements
  - ▶ `after()` – Inserts content after the selected elements
  - ▶ `before()` – Inserts content before the selected elements
- 

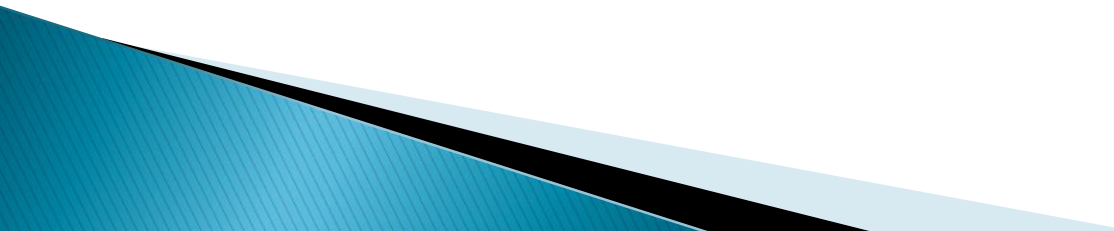
# Removing content

To remove elements and content, there are mainly two jQuery methods:

- ▶ `remove()` – Removes the selected element (and its child elements)
- ▶ `empty()` – Removes the child elements from the selected element

# Css manipulation

jQuery has several methods for CSS manipulation. We will look at the following methods:

- ▶ `addClass()` – Adds one or more classes to the selected elements
  - ▶ `removeClass()` – Removes one or more classes from the selected elements
  - ▶ `toggleClass()` – Toggles between adding/removing classes from the selected elements
  - ▶ `css()` – Sets or returns the style attribute
- 

# jQuery Effects

jQuery has the following slide methods:

- ▶ `slideDown()`
- ▶ `slideUp()`
- ▶ `slideToggle()`



# jQuery Effects

jQuery has the following fade methods:

- ▶ `fadeIn()`
- ▶ `fadeOut()`
- ▶ `fadeToggle()`
- ▶ `fadeTo()`