



# jQuery

0360-307-91 Web-Based Data Management

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# JQuery

- jQuery is a JavaScript Library.
- jQuery greatly simplifies JavaScript programming.
- jQuery is easy to learn.

You can download 2 version of any JQuery release

1- **mini JQuery** : which is the minimized version that is compressed to save space.

2- **Developer JQuery** (uncompressed): if you need to customize or change JQuery Library

Download JQuery: <http://jquery.com/download/>

# Accessing JQuery

- You may access JQuery directly from public servers are hosting . e.g Microsoft, Google.

```
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.2.1/jquery.min.js">  
</script>
```

- Or you download the JQuery library to your server and access it locally, which is recommended , so your code will not be dependent on outside changes/interruptions:

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

# \$() selector

- `$()` will select a specific select which can be an element, class, or id
- `$("p")` to select any paragraph.
- `$("p").click()` will determine onclick event on the element p.
- `function(){} will start implementing a function.`
- `$(this)` will select the event item (current).
- `$(document).ready(function(){`  
// this is the common place where we implement all functionality , it  
//will work anytime after loading the page until closing it.
- `});`
- `$(document).ready(function(){ });` contains all events.

# Example

```
<!DOCTYPE html>
<html> <head>
<script
src="https://ajax.googleapis.com/ajax/libs/jquery/3.2.1
/jquery.min.js"></script>
<script>
$(document).ready(function(){
    $("p").click(function(){
        $(this).hide();
    });
});
</script> </head>
```

```
<body>
<p>If you click on me, I will disappear.</p>
<p>Click me away!</p>
<p>Click me too!</p>
</body>
</html>
```

- **Try it here:**
- [https://www.w3schools.com/jquery/tryit.asp?filename=tryjquery\\_hide](https://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_hide)

# hide() and show()

- Hide() function will hide the selector by setting the visibility to hidden:
- `$("p").Hide()` in JQuery is the equivalent of :  
`document.getElementsByTagName("p").style.visibility = "hidden";`
- show() function will hide the selector by setting the visibility to visible:
- `$("p").show()` in JQuery is the equivalent of :  
`document.getElementsByTagName("p").style.visibility = "visible";`

# hide() and show()

- You may verify the user privilege (user\_role) or (user\_code) by php, then hide or/and show some parts of the website based on the role of the user.
- Example instructor view and student view in blackboard, where the instructor can see a part that student can not see:

<https://www.w3schools.com/code/tryit.asp?filename=FNPV8DXR9IJG>

# Remove content

- Remove Elements/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
- [https://www.w3schools.com/jquery/tryit.asp?filename=tryjquery\\_dom\\_remove](https://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_dom_remove)
- [https://www.w3schools.com/jquery/tryit.asp?filename=tryjquery\\_dom\\_empty](https://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_dom_empty)



# Get Content

- Three simple, but useful, jQuery methods for DOM manipulation are:
  - `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

[https://www.w3schools.com/jquery/tryit.asp?filename=tryjquery\\_dom\\_html\\_get](https://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_dom_html_get)

[https://www.w3schools.com/jquery/tryit.asp?filename=tryjquery\\_dom\\_val\\_get](https://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_dom_val_get)

- The jQuery `attr()` method is used to get attribute values.
  - [https://www.w3schools.com/jquery/tryit.asp?filename=tryjquery\\_dom\\_attr\\_get](https://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_dom_attr_get)

# Set Content

- We will use the same three methods from the previous page to **set 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
- [https://www.w3schools.com/jquery/tryit.asp?filename=tryjquery\\_dom\\_html\\_set](https://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_dom_html_set)
- [https://www.w3schools.com/jquery/tryit.asp?filename=tryjquery\\_dom\\_html\\_calback](https://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_dom_html_calback)

## References

- <https://W3schools.com>
- <https://jquery.com/>