

WEB TECHNOLOGIES

jQuery - JavaScript Library

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jQuery Introduction



- Simplifies the interaction between HTML and JavaScript
- Lightweight: 19KB in size (Minified and Gzipped)
- CSS1 to CSS3 Complaint
- Cross Browser
 - (IE 6.0+, FF 2+, Safari 3.0+, Opera 9.0+, Chrome)



jQuery
Including the Library



- Download jQuery from http://docs.jquery.com/Downloading jQuery
- Include the library in your web page

```
<head>
<script src="path/to/jquery-3.5.1.min.js"></script>
</head>
```

OR

Include from a CDN (Content Delivery Network)

```
<head>
<script src = "https://code.jquery.com/jquery-3.5.1.min.js"> </script>
</head>
```



Write less code, to do more



Vanilla JavaScript:

```
let paras = document.querySelectorAll("p")
for (let i=0; i<paras.length; i++)
    paras[i].style.color = "red"</pre>
```

jQuery:

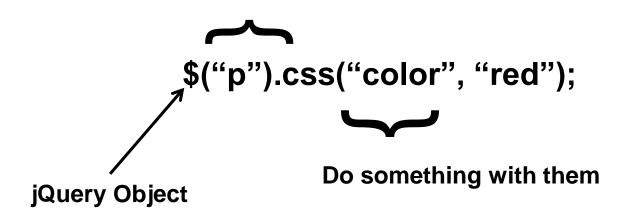
```
$("p").css("color", "red");
```



Statement Structure



Find Some Elements





Selecting Elements – using CSS Selectors

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Select By	Example
ID	\$("#header")
Class	\$(".updated")
Tag Name	\$("table")
Combination	\$("table.user-list") or \$("#footer ul.menu li")
Basic Filters	:first, :last, :even, :odd
Content Filters	:empty , :contains(text), :has(selector)
Attribute Filters	[attribute], [attribute=value], [attribute!=value]
Forms	:input, :text, :submit, :password, :enabled, :checked



The Action Part

Action	Example
DOM Manipulation	before(), after(), append(), appendTo()
Attributes	addClass(), css(), attr(), html(), val(), text()
Events	click(), on(), bind(), unbind(), live()
Effects	hide(), fadeOut(), toggle(), animate()
AJAX	load(), get(), ajax(), post(), getJSON()





DOM Manipulation Methods



- append() adds a set of elements to the end of the children
 - \$("pelem").append(\$c1[, c2, ...]) // \$c1, \$c2, ... will be appended to child elements of \$pelem
 - Similar methods : appendTo, prepend
- after() adds a set of elements after the specified element
 - \$("elem").after(\$e1[, \$e2,...]) //\$e1, \$e2 will be added after \$elem under the same parent
 - Similar methods: insertAfter, before, insertBefore



Attribute Methods



- Attribute Methods like css(), attr(), val(), html(), text() can be used for both setting and getting attributes
- Based on whether one or two arguments were passed

- Example:

- For Setting\$("p:last").css("color", "green");
- For Getting
 let pcolor = \$("p:last").css("color")



jQuery Chaining Methods



- Most jQuery methods return jQuery object
- You can chain them together to perform multiple operations on the same elements

```
$("#deleted").addClass("red").fadeOut("slow");
```

- This will not work as val() returns a string

```
$(":button").val("Click Me").click(function(){...})
```





THANK YOU

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