

Interacting with DOM

Lesson 04

August 15, 2014

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Lesson Objectives

- Iterating Through Nodes
- Modifying Properties
- Working with Attributes
- Adding and Removing Nodes
- Modifying Styles
- Working with Classes



Iterating through Nodes

- `.each(function(index,Element))` is used to iterate through jQuery objects

```
$('#div').each (function (index){  
  alert(index+'='+$(this).text());  
});
```

- Iterates through each div element and returns its index number and text

```
$('#div').each (function  
(index,element){  
  alert(index+'='+$(element).text());  
});
```

Demo

➤ [Iterating-Nodes.html](#)



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Modifying Object Properties

- The `this.PropertyName` statement can be used to modify an object's properties directly.

```
$('.div').each(function (index){  
  this.title = "Index = "+index;  
});
```

- Iterates through each div and modifies the title. If the property does not exist, it will be added

Working with Attributes

- **Object attributes can be used using attr():**
 - `var val = $('#customDiv').attr('title');` - Retrieves the title attribute value
- **.attr(attributeName,value) is the method used to access an object's attributes and modify the values.**
 - `$('#img').attr('title','Image title');` - changes the title attribute value to Image title.
- **To modify multiple attributes, pass JSON object.**

```
$('#img').attr({  
  "title": "image title",  
  "style": "border:2px solid black"  
});
```

Demo

➤ [attributes-demo.html](#)



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Adding and Removing Nodes

- In traditional approach adding and removing nodes is tedious.
- To insert nodes four methods were available
- Appending adds children at the end of the matching elements
 - .append()
 - .appendTo()
- Prepending adds children at the beginning of the matching elements
 - .prepend()
 - .prependTo()
- To wrap the elements use .wrap()
- To remove nodes from an element use .remove()

Demo

➤ [appending-prepend.html](#)



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Modifying Styles

- **.css()** function is used to modify an object's style
 - `$('#div').css('color','red');`
- Multiple styles can be modified by passing a JSON Object

```
$('#div').css({  
  "color":"red",  
  "font-weight":"bold"  
});
```

Demo

➤ `modifying-styles.html`



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Working with Classes

- The four methods for working with css class attributes are
 - `.addClass()`
 - `.hasClass()`
 - `.removeClass()`
 - `.toggleClass()`
- `.addClass()` adds one or more class names to the class attribute of each element.
 - `$('.p').addClass('classOne');`
 - `$('.p').addClass('classOne classTwo');`
- `.hasClass()` returns true if the selected element has a matching class that is specified
 - `if($('.p').hasClass('classOne')) { //perform operation }`

Working with Classes (Contd)

- **.removeClass()** can remove one or more classes
 - `$('p').removeClass('classOne classTwo');`
- **To remove all class attributes for the matching selector**
 - `$('p').removeClass();`
- **.toggleClass()** alternates adding or removing a class based on the current presence or absence of the class.
 - `$('#targetDiv').toggleClass('highlight');`

Demo

➤ `modify-class.html`



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Summary

➤ **jQuery Selectors can be combined with DOM functions to perform a variety of functionality**

- Iterate through elements
- Add Elements
- Remove Elements
- Wrap Elements
- Change Styles
- Change Class
- Toggle Class



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Lab

- 4.1. Iterate Nodes using jQuery
- 4.2. Sort list items using jQuery



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Review Question

- Which jQuery method is used to set one or more style properties for selected elements?

A. `css()`
B. `style()`
C. `html()`
D. `text()`



- Which of the snippets below creates a new div and appends it to the first span on the page?

A. `$('#span').createElement('div','This is a new div!');`
B. `$('#<div>',{html:"This is a new div"}).appendTo('span:first');`
C. `$('#span').html('<div>This is a new div!</div>')`

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