

Instructor Notes:



Instructor Notes:

Explain the lesson coverage

Lesson Objectives



- Iterating Through Nodes
- Working with Attributes and DOM Content
- DOM Insertion and Removal
- Working with Classes

Instructor Notes:

Additional notes for instructor

4.1. Iterating Through Nodes

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());  
});
```

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4.1. Iterating Through Nodes

Iterating through Nodes



- 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

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4.2. Working with Attributes and DOM Content

Working with Attributes and DOM Content



- 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"  
});
```

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4.3. DOM Insertion and Removal

DOM Insertion and Removal



- To insert new nodes four methods are available in jQuery
- 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()`

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4.4. Working with Classes

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}

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4.4. Working with Classes

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.
 - `$('#targetDiv').toggleClass('highlight');`
- `.css()` function is used to modify an object's style
 - `$('div').css('color','red');`
- Multiple styles can be modified by passing a JSON Object
 - `$('div').css({"color":"red", "font-weight":"bold"});`



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Demo

- jQuery-DOM-Manipulation.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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Answers for the Review

Question 1: A

Question 2: B

Review Question



- Question 1 : Which jQuery method is used to set one or more style properties for selected elements?
 - `css()`
 - `style()`
 - `html()`
 - `text()`
- Question 2 : Which of the snippets below creates a new div and appends it to the first span on the page?
 - `$('#span').createElement('div','This is a new div!');`
 - `$('#<div>',{html:"This is a new div"}).appendTo('span:first');`
 - `$('#span').html('<div>This is a new div!</div>')`



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