

JQUERY

Manipulating The DOM

Manipulating The DOM

jQuery can be used to
manipulate the DOM

add and remove elements

change attributes

update the content of elements

EXAMPLE 33

DomManipulation.html

DomManipulation.html

Example33Demo

DomManipulation.html

```
<body>
<input id="htmlmarkup">
<br>
<div class="updatehtml link">
  Update HTML
</div>
<div class="updatetext link">
  Update text
</div>
<div class="text">
  Loonycorn
</div>
<br>
</body>
```

Update HTML

Update text

Loonycorn

DomManipulation.html

```
<body>
<input id="htmlmarkup">
<br>
<div class="updatehtml link">
  Update HTML
</div>
<div class="updatetext link">
  Update text
</div>
<div class="text">
  Loonycorn
</div>
<br>
</body>
```

Update HTML

Update text

Loonycorn

DomManipulation.html

```
<body>
<input id="htmlmarkup">
<br>
<div class="updatehtml link">
  Update HTML
</div>
<div class="updatetext link">
  Update text
</div>
<div class="text">
  Loonycorn
</div>
<br>
</body>
```

Update HTML

Update text

Loonycorn

DomManipulation.html

```
$(document).ready(function () {  
    $('.updatehtml').click(function() {  
        var htmlMarkup = $('input').val();  
        $('.text').html(htmlMarkup);  
    });  
    $('.updatetext').click(function() {  
        var htmlMarkup = $('input').val();  
        $('.text').text(htmlMarkup);  
    });  
});
```

This button sets the HTML content on an element

DomManipulation.html

```
$(document).ready(function () {  
    $('updatehtml').click(function() {  
        var htmlMarkup = $('input').val();  
        $('text').html(htmlMarkup);  
    });  
    $('updatetext').click(function() {  
        var htmlMarkup = $('input').val();  
        $('text').text(htmlMarkup);  
    });  
});
```

Extract the user input from
the input box

DomManipulation.html

```
$(document).ready(function () {  
    $('updatehtml').click(function() {  
        var htmlMarkup = $('input').val();  
        $('text').html(htmlMarkup);  
    });  
    $('updatetext').click(function() {  
        var htmlMarkup = $('input').val();  
        $('text').text(htmlMarkup);  
    });  
});
```

Using the **.val()** function

DomManipulation.html

```
$(document).ready(function () {  
    $('updatehtml').click(function() {  
        var htmlMarkup = $('input').val();  
        $('text').html(htmlMarkup);  
    });  
    $('updatetext').click(function() {  
        var htmlMarkup = $('input').val();  
        $('text').text(htmlMarkup);  
    });  
});
```

Set the content of the
element via the **html()**
function

DomManipulation.html

```
$(document).ready(function () {  
    $('updatehtml').click(function() {  
        var htmlMarkup = $('input').val();  
        $('text').html(htmlMarkup);  
    });  
    $('updatetext').click(function() {  
        var htmlMarkup = $('input').val();  
        $('text').text(htmlMarkup);  
    });  
});
```

This parses the HTML markup
and sets it correctly as the
content

DomManipulation.html

```
$(document).ready(function () {  
    $('updatehtml').click(function() {  
        var htmlMarkup = $('input').val();  
        $('text').html(htmlMarkup);  
    });  
    $('updatetext').click(function() {  
        var htmlMarkup = $('input').val();  
        $('text').text(htmlMarkup);  
    });  
});
```

The `.text()` function does not
understand HTML

DomManipulation.html

```
$(document).ready(function () {  
    $('updatehtml').click(function() {  
        var htmlMarkup = $('input').val();  
        $('text').html(htmlMarkup);  
    });  
    $('updatehtml').click(function() {  
        var htmlMarkup = $('input').val();  
        $('text').text(htmlMarkup);  
    });  
});
```

It escapes the HTML markup
in the input as text

EXAMPLE 34

AttrAndRemoveAttr.html

AttrAndRemoveAttr.html

```
<body>
<div class="add link">
  Add
</div>
<div class="remove link">
  Remove
</div>
<div class="text" id="loonyid" style="color:green; font-size:22px">
  Loonycorn
</div>
<br>
</body>
```

Add

Remove

Loonycorn

AttrAndRemoveAttr.html

```
<body>
<div class="add link">
  Add
</div>
<div class="remove link">
  Remove
</div>
<div class="text" id="loonyid" style="color:green; font-size:22px">
  Loonycorn
</div>
<br>
</body>
```

Add

Remove

This is the element
on which we add and
remove attributes

Loonycorn

AttrAndRemoveAttr.html

```
$(document).ready(function () {  
  $('add').click(function() {  
    var attributes = $('.text').attr('id');  
    console.log(attributes);  
  
    $('.text').attr('id', 'differentid');  
    $('.text').attr('title', 'Loonycorn rocks!');  
  });  
  $('remove').click(function() {  
    $('#differentid').removeAttr('style');  
  });  
});
```

Add

Remove

Loonycorn

The add button changes the **id**
and the **title** attributes of the
element

AttrAndRemoveAttr.html

```
$(document).ready(function () {  
  $('add').click(function() {  
    var attributes = $('text').attr('id');  
    console.log(attributes);  
  
    $('text').attr('id', 'differentid');  
    $('text').attr('title', 'Loonycorn rocks!');  
  });  
  $('remove').click(function() {  
    $('#differentid').removeAttr('style');  
  });  
});
```

Add

Remove

Loonycorn

The id is now differentid

AttrAndRemoveAttr.html

```
$(document).ready(function () {  
    $('.add').click(function() {  
        var attributes = $('.text').attr('id');  
        console.log(attributes);  
  
        $('.text').attr('id', 'differentid');  
        $('.text').attr('title', 'Loonycorn rocks!');  
    });  
    $('.remove').click(function() {  
        $('#differentid').removeAttr('style');  
    });  
});
```

Add

Remove

Loonycorn

This is what we use in the
remove handler to access the
element

AttrAndRemoveAttr.html

```
$(document).ready(function () {  
    $('.add').click(function() {  
        var attributes = $('.text').attr('id');  
        console.log(attributes);  
  
        $('.text').attr('id', 'differentid');  
        $('.text').attr('title', 'Loonycorn rocks!');  
    });  
    $('.remove').click(function() {  
        $('#differentid').removeAttr('style');  
    });  
});
```

Add

Remove

Loonycorn

This removes the style
attribute on the element

AttrAndRemoveAttr.html

```
$(document).ready(function () {  
    $('.add').click(function() {  
        var attributes = $('.text').attr('id');  
        console.log(attributes);  
  
        $('.text').attr('id', 'differentid');  
        $('.text').attr('title', 'Loonycorn rocks!');  
    });  
    $('.remove').click(function() {  
        $('#differentid').removeAttr('style');  
    });  
});
```

Add

Remove

Loonycorn

This removes the explicit
green color on the text

AttrAndRemoveAttr.html

Example34Demo all parts

EXAMPLE 35

AddingDomElements.html

AddingDomElements.html

Example35Demo

AddingDomElements.html

```
<body>
<input id="userinput">
<br>
<div class="insertAfter link">
  Insert at end
</div>
<div class="after link">
  Insert at end
</div>
<br>
<div class="insertBefore link">
  Insert at start
</div>
<div class="before link">
  Insert at start
</div>
<br>
<div class="appendTo link">
  First becomes last
</div>
<div class="append link">
  First becomes last
</div>
<br>
<div class="text">
  <ul id="contendersList">
    <li>
      Hillary Clinton
    </li>
    <li>
      Donald Trump
    </li>
  </ul>
</div>
<br>
</body>
</html>
```

Insert at end	Insert at end
Insert at start	Insert at start
First becomes last	First becomes last

- Hillary Clinton
- Donald Trump

AddingDomElements.html

Insert at end	Insert at end
Insert at start	Insert at start
First becomes last	First becomes last

- Hillary Clinton
- Donald Trump

There are specific functions which allow for each of these actions

AddingDomElements.html

Insert at end	Insert at end
Insert at start	Insert at start
First becomes last	First becomes last

- Hillary Clinton
- Donald Trump

2 buttons with the same message exist because there are 2 ways to perform each action

AddingDomElements.html

```
$(document).ready(function () {  
    $('.insertAfter').click(function() {  
        var value = $('input').val();  
        $('<li>' + value + '</li>').insertAfter('#contendersList li:last');  
    });  
    $('.after').click(function() {  
        var value = $('input').val();  
        $('#contendersList li:last').after('<li>' + value + '</li>');  
    });  
    $('.insertBefore').click(function() {  
        var value = $('input').val();  
        $('<li>' + value + '</li>').insertBefore('#contendersList li:first');  
    });  
    $('.before').click(function() {  
        var value = $('input').val();  
        $('#contendersList li:first').before('<li>' + value + '</li>');  
    });  
    $('.appendTo').click(function() {  
        $('#contendersList li:first').appendTo('#contendersList');  
    });  
    $('.append').click(function() {  
        $('#contendersList').append($('#contendersList li:first'));  
    });  
});
```

AddingDomElements.html

```
$(document).ready(function () {  
    $('.insertAfter').click(function() {  
        var value = $('input').val();  
        $('<li>' + value + '</li>').insertAfter('#contendersList li:last');  
    });  
    $('.insertBefore').click(function() {  
        var value = $('input').val();  
        $('<li>' + value + '</li>').insertBefore('#contendersList li:first');  
    });  
    $('.append').click(function() {  
        $('#contendersList').append($('#contendersList li:first'));  
    });  
});
```

We insert a new name in specified
in the input box after the last
element in the list

AddingDomElements.html

```
$(document).ready(function () {  
    $('insertAfter').click(function() {  
        var value = $('input').val();  
        $('<li>' + value + '</li>').insertAfter('#contendersList li:last');  
    });  
    $('after').click(function() {  
        var value = $('input').val();  
        $('#contendersList li:last').after('<li>' + value + '</li>');  
    });  
    $('insertBefore').click(function() {  
        var value = $('input').val();  
        $('<li>' + value + '</li>').insertBefore('#contendersList li:first');  
    });  
    $('before').click(function() {  
        var value = $('input').val();  
        $('#contendersList li:first').before('<li>' + value + '</li>');  
    });  
    $('appendTo').click(function() {  
        $('#contendersList li:first').appendTo('#contendersList');  
    });  
    $('append').click(function() {  
        $('#contendersList').append($('#contendersList li:first'));  
    });  
});
```

Extract the value from the input
box

AddingDomElements.html

```
$(document).ready(function () {  
    $('.insertAfter').click(function() {  
        var value = $('input').val();  
        $('<li>' + value + '</li>').insertAfter('#contendersList li:last');  
    });  
    $('.after').click(function() {  
        var value = $('input').val();  
        $('#contendersList li:last').after('<li>' + value + '</li>');  
    });  
    $('.insertBefore').click(function() {  
        var value = $('input').val();  
        $('<li>' + value + '</li>').insertBefore('#contendersList li:first');  
    });  
    $('.before').click(function() {  
        var value = $('input').val();  
        $('#contendersList li:first').before('<li>' + value + '</li>');  
    });  
    $('.appendTo').click(function() {  
        $('#contendersList li:first').appendTo('#contendersList');  
    });  
    $('.append').click(function() {  
        $('#contendersList').append($('#contendersList li:first'));  
    });  
});
```

Create a list item with the value
we just got from the input box

AddingDomElements.html

```
$(document).ready(function () {  
    $('.insertAfter').click(function() {  
        var value = $('input').val();  
        $('<li>' + value + '</li>').insertAfter('#contendersList li:last');  
    });  
    $('.after').click(function() {  
        var value = $('input').val();  
        $('#contendersList li:last').after('<li>' + value + '</li>');  
    });  
    $('.insertBefore').click(function() {  
        var value = $('input').val();  
        $('<li>' + value + '</li>').insertBefore('#contendersList li:first');  
    });  
    $('.before').click(function() {  
        var value = $('input').val();  
        $('#contendersList li:first').before('<li>' + value + '</li>');  
    });  
    $('.appendTo').click(function() {  
        $('#contendersList').append($('#contendersList li:first'));  
    });  
    $('.prependTo').click(function() {  
        $('#contendersList').prepend($('#contendersList li:first'));  
    });  
});
```

jQuery allows us to create items on the fly using the \$ selector!

AddingDomElements.html

```
$(document).ready(function () {  
    $('.insertAfter').click(function() {  
        var value = $('input').val();  
        $('<li>' + value + '</li>').insertAfter('#contendersList li:last');  
    });  
    $('.after').click(function() {  
        var value = $('input').val();  
        $('#contendersList li:last').after('<li>' + value + '</li>');  
    });  
    $('.insertBefore').click(function() {  
        var value = $('input').val();  
        $('#contendersList li:first').before('<li>' + value + '</li>');  
    });  
    $('.before').click(function() {  
        var value = $('input').val();  
        $('#contendersList li:first').before('<li>' + value + '</li>');  
    });  
    $('.appendTo').click(function() {  
        $('#contendersList li:first').appendTo('#contendersList');  
    });  
    $('.prepend').click(function() {  
        $('#contendersList').prepend($('#contendersList li:first'));  
    });  
});
```

Insert the newly created element
after the last item in the list (so it
becomes to the new last item)

AddingDomElements.html

```
$(document).ready(function () {  
    $('.insertAfter').click(function() {  
        var value = $('input').val();  
        $('<li>' + value + '</li>').insertAfter('#contendersList li:last');  
    });  
    $('.after').click(function() {  
        var value = $('input').val();  
        $('#contendersList li:last').after('<li>' + value + '</li>');  
    });  
    $('.insertBefore').click(function() {  
        var value = $('input').val();  
        $('<li>' + value + '</li>').insertBefore('#contendersList li:first');  
    });  
    $('.before').click(function() {  
        var value = $('input').val();  
        $('#contendersList li:first').before('<li>' + value + '</li>');  
    });  
    $('.appendTo').click(function() {  
        $('#contendersList li:first').appendTo('#contendersList');  
    });  
    $('.append').click(function() {  
        $('#contendersList').append($('#contendersList li:first'));  
    });  
});
```

li:last is a quick way to select the
last item within the
#contendersList

AddingDomElements.html

```
$(document).ready(function () {  
    $('.insertAfter').click(function() {  
        var value = $('input').val();  
        $('<li>' + value + '</li>').insertAfter('#contendersList li:last');  
    });  
    $('.after').click(function() {  
        var value = $('input').val();  
        $('#contendersList li:last').after('<li>' + value + '</li>');  
    });  
    $('.insertBefore').click(function() {  
        var value = $('input').val();  
        $('<li>' + value + '</li>').insertBefore('#contendersList li:first');  
    });  
    $('.before').click(function() {  
        var value = $('input').val();  
        $('#contendersList li:first').before('<li>' + value + '</li>');  
    });  
    $('.append').click(function() {  
        $('#contendersList').append($('#contendersList li:first'));  
    });  
});
```

insertAfter inserts an element
relative to other elements

AddingDomElements.html

```
$(document).ready(function() {  
    $('.insertAfter').click(function() {  
        var value = $('input').val();  
        $('<li>' + value + '</li>').insertAfter('#contendersList li:last');  
    });  
    $('.after').click(function() {  
        var value = $('input').val();  
        $('#contendersList li:last').after('<li>' + value + '</li>');  
    });  
    $('.insertBefore').click(function() {  
        var value = $('input').val();  
        $('<li>' + value + '</li>').insertBefore('#contendersList li:first');  
    });  
    $('.before').click(function() {  
        var value = $('input').val();  
        $('#contendersList li:first').before('<li>' + value + '</li>');  
    });  
    $('.appendTo').click(function() {  
        $('#contendersList li:first').appendTo('#contendersList');  
    });  
    $('.append').click(function() {  
        $('#contendersList').append($('#contendersList li:first'));  
    });  
});
```

This is another way to accomplish exactly the same thing

AddingDomElements.html

```
$(document).ready(function() {  
    $('.insertAfter').click(function() {  
        var value = $('input').val();  
        $('<li>' + value + '</li>').insertAfter('#contendersList li:last');  
    });  
    $('.after').click(function() {  
        var value = $('input').val();  
        $('#contendersList li:last').after('<li>' + value + '</li>');  
    });  
    $('.insertBefore').click(function() {  
        var value = $('input').val();  
        $('<li>' + value + '</li>').insertBefore('#contendersList li:first');  
    });  
    $('.before').click(function() {  
        var value = $('input').val();  
        $('#contendersList li:first').before('<li>' + value + '</li>');  
    });  
    $('.appendTo').click(function() {  
        $('#contendersList li:first').appendTo('#contendersList');  
    });  
    $('.prependTo').click(function() {  
        $('#contendersList').prepend($('#contendersList li:first'));  
    });  
});
```

Select the element relative to
which we place the newly created
element

AddingDomElements.html

```
$(document).ready(function() {  
    $('.insertAfter').click(function() {  
        var value = $('input').val();  
        $('<li>' + value + '</li>').insertAfter('#contendersList li:last');  
    });  
    $('.after').click(function() {  
        var value = $('input').val();  
        $('#contendersList li:last').after('<li>' + value + '</li>');  
    });  
    $('.insertBefore').click(function() {  
        var value = $('input').val();  
        $('<li>' + value + '</li>').insertBefore('#contendersList li:first');  
    });  
    $('.before').click(function() {  
        var value = $('input').val();  
        $('#contendersList li:first').before('<li>' + value + '</li>');  
    });  
    $('.appendTo').click(function() {  
        $('#contendersList').append('<li>' + value + '</li>');  
    });  
    $('.append').click(function() {  
        $('#contendersList').append('<li>' + value + '</li>');  
    });  
});
```

Use the **after()** function rather than the **insertAfter()**

AddingDomElements.html

```
$(document).ready(function() {  
    $('.insertAfter').click(function() {  
        var value = $('input').val();  
        $('<li>' + value + '</li>').insertAfter('#contendersList li:last');  
    });  
    $('<li>' + value + '</li>').insertAfter('#contendersList li:last');  
    $('.after').click(function() {  
        var value = $('input').val();  
        $('#contendersList li:last').after('<li>' + value + '</li>');  
    });  
    $('.insertBefore').click(function() {  
        var value = $('input').val();  
        $('<li>' + value + '</li>').insertBefore('#contendersList li:first');  
    });  
    $('.before').click(function() {  
        var value = $('input').val();  
        $('#contendersList li:first').before('<li>' + value + '</li>');  
    });  
    $('.appendTo').click(function() {  
        $('#contendersList li:first').appendTo('#contendersList');  
    });  
    $('.append').click(function() {  
        $('#contendersList').append($('#contendersList li:first'));  
    });  
});
```

Create the new element

AddingDomElements.html

```
});  
$($('.after').click(function() {  
    var value = $('input').val();  
    $('#contendersList li:last').after('<li>' + value + '</li>');  
});  
$($('.insertBefore').click(function() {  
    var value = $('input').val();  
    $('<li>' + value + '</li>').insertBefore('#contendersList li:first');  
});  
$($('.before').click(function() {  
    var value = $('input').val();  
    $('#contendersList li:first').before('<li>' + value + '</li>');  
});  
$($('.appendTo').click(function() {  
    $('#contendersList li:first').appendTo('#contendersList');  
});  
$($('.append').click(function() {  
    $('#contendersList').append($('#contendersList li:first'));  
});  
});
```

The insertBefore() and before() functions work in similar ways

AddingDomElements.html

```
});  
$($('.after').click(function() {  
    var value = $('input').val();  
    $('#contendersList li:last').after('<li>' + value + '</li>');  
});  
$($('.insertBefore').click(function() {  
    var value = $('input').val();  
    $('<li>' + value + '</li>').insertBefore('#contendersList li:first');  
});  
$($('.before').click(function() {  
    var value = $('input').val();  
    $('#contendersList li:first').before('<li>' + value + '</li>');  
});  
$($('.appendTo').click(function() {  
    $('#contendersList li:first').appendTo('#contendersList');  
});  
$($('.append').click(function() {  
    $('#contendersList').append($('#contendersList li:first'));  
});  
});
```

Create the element and insert it
before the first element in the list

AddingDomElements.html

```
});  
$('input').click(function() {  
    var value = $('input').val();  
    $('#contendersList li:last').after('<li>' + value + '</li>');  
});  
$($('.insertBefore').click(function() {  
    var value = $('input').val();  
    $('<li>' + value + '</li>').insertBefore('#contendersList li:first');  
});  
$($('.before').click(function() {  
    var value = $('input').val();  
    $('#contendersList li:first').before('<li>' + value + '</li>');  
});  
$($('.appendTo').click(function() {  
    $('#contendersList li:first').appendTo('#contendersList');  
});  
$($('.append').click(function() {  
    $('#contendersList').append($('#contendersList li:first'));  
});  
});
```

Create the element and insert it
before the first element in the list

AddingDomElements.html

```
});  
$('input').click(function() {  
    var value = $('input').val();  
    $('#contendersList li:last').after('<li>' + value + '</li>');  
});  
$($('.insertBefore').click(function() {  
    var value = $('input').val();  
    $('<li>' + value + '</li>').insertBefore('#contendersList li:first');  
});  
$($('.before').click(function() {  
    var value = $('input').val();  
    $('#contendersList li:first').before('<li>' + value + '</li>');  
});  
$($('.appendTo').click(function() {  
    $('#contendersList li:first').appendTo('#contendersList');  
});  
$($('.append').click(function() {  
    $('#contendersList').append($('#contendersList li:first'));  
});  
});
```

Select the first element and have
the new element before it

AddingDomElements.html

```
});  
$($('.after').click(function() {  
    var value = $('input').val();  
    $('#contendersList li:last').after('<li>' + value + '</li>');  
});  
$($('.insertBefore').click(function() {  
    var value = $('input').val();  
    $('<li>' + value + '</li>').insertBefore('#contendersList li:first');  
});  
$($('.before').click(function() {  
    var value = $('input').val();  
    $('#contendersList li:first').before('<li>' + value + '</li>');  
});  
$($('.appendTo').click(function() {  
    $('#contendersList li:first').appendTo('#contendersList');  
});  
$($('.append').click(function() {  
    $('#contendersList').append($('#contendersList li:first'));  
});  
});
```

Select the first element and have
the new element before it

AddingDomElements.html

```
});  
$(' .before').click(function() {  
    var value = $('input').val();  
    $('#contendersList li:first').before('<li>' + value + '</li>');  
});  
$(' .appendTo').click(function() {  
    $('#contendersList li:first').appendTo('#contendersList');  
});  
$(' .append').click(function() {  
    $('#contendersList').append($('#contendersList li:first'));  
});  
});
```

There are exact equivalent
methods for **append()** and **prepend()**

AddingDomElements.html

```
});  
$('input').click(function() {  
    var value = $('input').val();  
    $('#contendersList li:first').before('<li>' + value + '</li>');  
});  
$('input').click(function() {  
    $('#contendersList li:first').append('<li>' + value + '</li>');  
});  
$('input').click(function() {  
    $('#contendersList li:first').append('<li>' + value + '</li>');  
});  
});
```

append() and appendTo()

prepend() and prependTo()

AddingDomElements.html

```
$( '.appendTo' ).click( function() {
    $( '#contendersList li:first' ).appendTo( '#contendersList' );
});
$( '.append' ).click( function() {
    $( '#contendersList' ).append( $( '#contendersList li:first' ) );
});
```

In this code we do not create any new elements

AddingDomElements.html

```
});  
$('input').click(function() {  
    var value = $('input').val();  
    $('#contendersList li:first').before('<li>' + value + '</li>');  
});  
$('input').click(function() {  
    $('#contendersList li:first').appendTo('#contendersList');  
});  
$('input').click(function() {  
    $('#contendersList').append($('#contendersList li:first'));  
});  
});
```

This takes the first element and appends it to the **end** of the list

AddingDomElements.html

```
});  
$('input').click(function() {  
    var value = $('input').val();  
    $('#contendersList li:first').before('<li>' + value + '</li>');  
});  
$('input').click(function() {  
    $('#contendersList li:first').appendTo('#contendersList');  
});  
$('input').click(function() {  
    $('#contendersList').append($('#contendersList li:first'));  
});  
});
```

Select the first element

AddingDomElements.html

```
});  
$(' .before').click(function() {  
    var value = $('input').val();  
    $('#contendersList li:first').before('<li>' + value + '</li>');  
});  
$(' .appendTo').click(function() {  
    $('#contendersList li:first').appendTo('#contendersList');  
});  
$(' .append').click(function() {  
    $('#contendersList').append($('#contendersList li:first'));  
});  
});
```

Append i.e. add it to the end of the list

AddingDomElements.html

```
});  
$('input').click(function() {  
    var value = $('input').val();  
    $('#contendersList li:first').before('<li>' + value + '</li>');  
});  
$('.appendTo').click(function() {  
    $('#contendersList li:first').appendTo('#contendersList');  
});  
$('.append').click(function() {  
    $('#contendersList').append($('#contendersList li:first'));  
});  
});
```

The same action expressed in a slightly different way

EXAMPLE 36

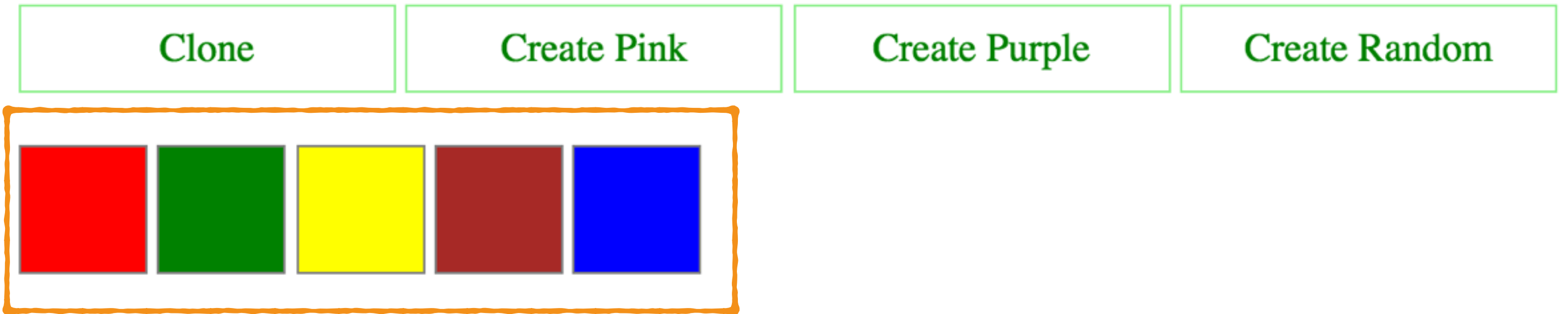
CloningAndCreatingElements.html

CloningAndCreatingElements.html

Example36Demo

CloningAndCreatingElements.html

```
<body>
<div class="clone link">
  Clone
</div>
<div class="createpink link">
  Create Pink
</div>
<div class="createpurple link">
  Create Purple
</div>
<div class="createrandom link">
  Create Random
</div>
<br>
<br>
<div id="colorboxes">
  <div class="red box">
  </div>
  <div class="green box">
  </div>
  <div class="yellow box">
  </div>
  <div class="brown box">
  </div>
  <div class="blue box">
  </div>
</div>
<br>
</body>
```



A whole bunch of colored
boxes

CloningAndCreatingElements.html

```
<body>
<div class="clone link">
  Clone
</div>
<div class="createpink link">
  Create Pink
</div>
<div class="createpurple link">
  Create Purple
</div>
<div class="createrandom link">
  Create Random
</div>
<br>
<br>
<div id="colorboxes">
  <div class="red box">
  </div>
  <div class="green box">
  </div>
  <div class="yellow box">
  </div>
  <div class="brown box">
  </div>
  <div class="blue box">
  </div>
</div>
<br>
</body>
```



Clone and create new ones,
with specific colors or at
random

CloningAndCreatingElements.html

```
$(document).ready(function () {  
    var classNames = ['.red', '.green', '.yellow', '.brown', '.blue'];  
  
    $('.clone').click(function() {  
        var className = classNames[Math.floor(Math.random() * classNames.length)];  
        $(className).first().clone().appendTo($('#colorboxes'));  
    });  
  
    $('.createpink').click(function() {  
        var jqEl = $('<div class="pink box"></div>');  
        $('#colorboxes').append(jqEl);  
    });  
  
    $('.createpurple').click(function() {  
        $('#colorboxes').append($('<div class="purple box"></div>'));  
    });  
  
    $('.createrandom').click(function() {  
        var className = classNames[Math.floor(Math.random() * classNames.length)];  
        className = className.substr(1);  
        $('#colorboxes').append($('<div></div>', {  
            'class': className + ' box'  
        }));  
    });  
});
```

CloningAndCreatingElements.html

```
$(document).ready(function() {  
    var classNames = ['.red', '.green', '.yellow', '.brown', '.blue'];  
  
    $('.clone').click(function() {  
        var className = classNames[Math.floor(Math.random() * classNames.length)];  
        $(className).first().clone().appendTo($('#colorboxes'));  
    });  
  
    $('.createpink').click(function() {  
        var jqEl = $('<div class="pink box"></div>');  
        $('#colorboxes').append(jqEl);  
    });  
  
    $('.createpurple').click(function() {  
        $('#colorboxes').append($('<div class="purple box"></div>'));  
    });  
  
    $('.createorange').click(function() {  
        var className = classNames[Math.floor(Math.random() * classNames.length)];  
        className = className.substr(1);  
        $('#colorboxes').append($('<div></div>', {  
            'class': className, 'text': 'orange box' }));  
    });  
});
```

Clone an existent box element to
create a new one

CloningAndCreatingElements.html

```
$(document).ready(function() {  
    var classNames = ['.red', '.green', '.yellow', '.brown', '.blue'];  
  
    $('.clone').click(function() {  
        var className = classNames[Math.floor(Math.random() * classNames.length)];  
        $(className).first().clone().appendTo($('#colorboxes'));  
    });  
  
    $('.createpink').click(function() {  
        var jqEl = $('<div class="pink box"></div>');  
        $('#colorboxes').append(jqEl);  
    });  
  
    $('.createpurple').click(function() {  
        $('#colorboxes').append($('<div class="purple box"></div>'));  
    });  
  
    $('.createyellow').click(function() {  
        var className = classNames[Math.floor(Math.random() * classNames.length)];  
        className = className.substr(1);  
        $('#colorboxes').append($('<div><div>', {  
            'class': className  
        }));  
    });  
});
```

An array of class names for the various colored boxes

CloningAndCreatingElements.html

```
$(document).ready(function () {  
    var classNames = ['.red', '.green', '.yellow', '.brown', '.blue'];  
  
    $('.clone').click(function () {  
        var className = classNames[Math.floor(Math.random() * classNames.length)];  
        $(className).first().clone().appendTo($('#colorboxes'));  
    });  
  
    $('.createpink').click(function () {  
        var jqEl = $('<div class="pink box"></div>');  
        $('#colorboxes').append(jqEl);  
    });  
  
    $('.createpurple').click(function () {  
        $('#colorboxes').append($('<div class="purple box"></div>'));  
    });  
  
    $('.createrandom').click(function () {  
        var className = classNames[Math.floor(Math.random() * classNames.length)];  
        className = className.substr(1);  
        $('#colorboxes').append($('<div></div>', {  
            'class': className + ' box' }));  
    });  
});
```

Choose one of the class names at random

CloningAndCreatingElements.html

```
$(document).ready(function () {  
    var classNames = ['.red', '.green', '.yellow', '.brown', '.blue'];  
  
    $('.clone').click(function() {  
        var className = classNames[Math.floor(Math.random() * classNames.length)];  
        $(className).first().clone().appendTo($('#colorboxes'));  
    });  
  
    $('.createpink').click(function() {  
        var jqEl = $('<div class="pink box"></div>');  
        $('#colorboxes').append(jqEl);  
    });  
  
    $('.createpurple').click(function() {  
        $('#colorboxes').append($('<div class="purple box"></div>'));  
    });  
  
    $('.createrandom').click(function() {  
        var className = classNames[Math.floor(Math.random() * classNames.length)];  
        $('#colorboxes').append($('<div class="' + className + ' box"></div>'));  
    });  
});
```

Select an existing element which has that class applied and clone it

CloningAndCreatingElements.html

```
$(document).ready(function () {  
    var classNames = ['.red', '.green', '.yellow', '.brown', '.blue'];  
  
    $('.clone').click(function() {  
        var className = classNames[Math.floor(Math.random() * classNames.length)];  
        $(className).first().clone().appendTo($('#colorboxes'));  
    });  
  
    $('.createpink').click(function() {  
        var jqEl = $('<div class="pink box"></div>');  
        $('#colorboxes').append(jqEl);  
    });  
  
    $('.createpurple').click(function() {  
        $('#colorboxes').append($('<div class="purple box"></div>'));  
    });  
  
    $('.createrandom').click(function() {  
        var className = classNames[Math.floor(Math.random() * classNames.length)];  
        $('#colorboxes').append($('<div class="' + className + ' box"></div>'));  
    });  
});
```

An existing element which has the class applied

CloningAndCreatingElements.html

```
$(document).ready(function () {  
    var classNames = ['.red', '.green', '.yellow', '.brown', '.blue'];  
  
    $('.clone').click(function() {  
        var className = classNames[Math.floor(Math.random() * classNames.length)];  
        $(className).first().clone().appendTo($('#colorboxes'));  
    });  
  
    $('.createpink').click(function() {  
        var jqEl = $('<div class="pink box"></div>');  
        $('#colorboxes').append(jqEl);  
    });  
  
    $('.createpurple').click(function() {  
        $('#colorboxes').append($('<div class="purple box"></div>'));  
    });  
  
    $('.createrandom').click(function() {  
        var className = classNames[Math.floor(Math.random() * classNames.length)];  
        className = className.substr(1);  
        $('#colorboxes').append($('<div></div>').  
        .clone().addClass(className).appendTo($('#colorboxes')));  
    });  
});
```

The first of the selected elements

CloningAndCreatingElements.html

```
$(document).ready(function () {  
    var classNames = ['.red', '.green', '.yellow', '.brown', '.blue'];  
  
    $('.clone').click(function() {  
        var className = classNames[Math.floor(Math.random() * classNames.length)];  
        $(className).first().clone().appendTo($('#colorboxes'));  
    });  
  
    $('.createpink').click(function() {  
        var jqEl = $('<div class="pink box"></div>');  
        $('#colorboxes').append(jqEl);  
    });  
  
    $('.createpurple').click(function() {  
        $('#colorboxes').append($('<div class="purple box"></div>'));  
    });  
  
    $('.createrandom').click(function() {  
        var className = classNames[Math.floor(Math.random() * classNames.length)];  
        className = className.substr(1);  
        $('#colorboxes').append($('<div></div>', {  
            'class': className + ' random' }));  
    });  
});
```

Clone it

CloningAndCreatingElements.html

```
$(document).ready(function () {  
    var classNames = ['.red', '.green', '.yellow', '.brown', '.blue'];  
  
    $('.clone').click(function() {  
        var className = classNames[Math.floor(Math.random() * classNames.length)];  
        $(className).first().clone().appendTo($('#colorboxes'));  
    });  
  
    $('.createpink').click(function() {  
        var jqEl = $('<div class="pink box"></div>');  
        $('#colorboxes').append(jqEl);  
    });  
  
    $('.createpurple').click(function() {  
        $('#colorboxes').append($('<div class="purple box"></div>'));  
    });  
  
    $('.createrandom').click(function() {  
        var className = classNames[Math.floor(Math.random() * classNames.length)];  
        var jqEl = $('<div class="' + className + ' box"></div>');  
        $('#colorboxes').append(jqEl);  
    });  
});
```

Append the clone to the outer
<div>

CloningAndCreatingElements.html

```
$( '.createpink' ).click(function() {  
    var jqEl = $( '<div class="pink box"></div>' );  
    $( '#colorboxes' ).append(jqEl);  
});
```

```
$( '.createpurple' ).click(function() {  
    $( '#colorboxes' ).append( $( '<div class="purple box"></div>' ) );  
});
```

```
$( '.createrandom' ).click(function() {  
    var className = classNames[Math.floor(Math.random() * classNames.length)];  
    className = className.substr(1);  
    $( '#colorboxes' ).append( $( '<div></div>', {  
        'class': className + ' box'  
    } ) );  
});
```

Create a new pink box to add to the DOM

CloningAndCreatingElements.html

```
$( '.createpink' ).click(function() {  
    var jqEl = $('<div class="pink box"></div>');  
    $('#colorboxes').append(jqEl);  
});
```

```
$( '.createpurple' ).click(function() {  
    $('#colorboxes').append($('<div class="purple box"></div>'));  
});
```

```
$( '.createrandom' ).click(function() {  
    var className = classNames[Math.floor(Math.random() * classNames.length)];  
    className = className.substr(1);  
    $('#colorboxes').append($('<div></div>', {  
        'class': className + ' box'  
    }));  
});
```

Create an element on the fly - just specify the HTML as you would a selector

CloningAndCreatingElements.html

```
$( '.createpink' ).click(function() {  
  var jqEl = $( '<div class="pink box"></div>' );  
  $( '#colorboxes' ).append(jqEl);  
});
```

```
$( '.createpurple' ).click(function() {  
  $( '#colorboxes' ).append( $( '<div class="purple box"></div>' ) );  
});
```

```
$( '.createrandom' ).click(function() {  
  var className = classNames[Math.floor(Math.random() * classNames.length)];  
  className = className.substr(1);  
  $( '#colorboxes' ).append( $( '<div></div>', {  
    'class': className + ' box'  
  } ) );  
});
```

Assign it to a variable - the element has been created but **not** added to the DOM yet

CloningAndCreatingElements.html

```
var className = classNames[Math.floor(Math.random() * classNames.length)];
$(className).first().clone().appendTo($('#colorboxes'));
});

$('.createpink').click(function() {
  var jqEl = $('

</div>');
  $('#colorboxes').append(jqEl);
});

$('.createpurple').click(function() {
  $('#colorboxes').append($('

</div>'));
});

$('.createrandom').click(function() {
  var className = classNames[Math.floor(Math.random() * classNames.length)];
  className = className.substr(1);
  $('#colorboxes').append($('

</div>', {
    'class': className + ' box'
  }));
});
});


```

Append the element to DOM

CloningAndCreatingElements.html

```
$( '.createpink' ).click(function() {  
    var jqEl = $( '<div class="pink box"></div>' );  
    $( '#colorboxes' ).append(jqEl);  
});  
  
$( '.createpurple' ).click(function() {  
    $( '#colorboxes' ).append( $( '<div class="purple box"></div>' ) );  
});  
  
$( '.createrandom' ).click(function() {  
    var className = classNames[Math.floor(Math.random() * classNames.length)];  
    className = className.substr(1);  
    $( '#colorboxes' ).append( $( '<div></div>', {  
        'class': className + ' box'  
    } ) );  
});  
});
```

A more concise way to create and
append an element to DOM

CloningAndCreatingElements.html

```
$( '.creatorandom' ).click(function() {  
    var className = classNames[Math.floor(Math.random() * classNames.length)];  
    className = className.substr(1);  
    $( '#colorboxes' ).append( $( '<div></div>' , {  
        'class': className + ' box'  
    } ) );  
});
```

Create an element and specify its attributes dynamically

CloningAndCreatingElements.html

```
$( '.creatorandom' ).click( function() {  
    var className = classNames[Math.floor(Math.random() * classNames.length)];  
    className = className.substr(1);  
    $( '#colorboxes' ).append( $( '<div></div>', {  
        'class': className + ' box'  
    } ) );  
});  
});
```

Choose a class name at random (a random colored box)

CloningAndCreatingElements.html

```
$('.createrandom').click(function() {  
    var className = classNames[Math.floor(Math.random() * classNames.length)];  
    className = className.substr(1);  
    $('#colorboxes').append($('

</div>', {  
        'class': className + ' box'  
    }));  
});


```

Append a <div> with this class
name

CloningAndCreatingElements.html

```
$('.createrandom').click(function() {  
  var className = classNames[Math.floor(Math.random() * classNames.length)];  
  className = className.substr(1);  
  $('#colorboxes').append($('

</div>', {  
    'class': className + ' box'  
  }));  
});


```

Specify the attributes applied to
the `<div>` in the form of a
properties object

EXAMPLE 37

`RemoveDetachEmptyElements.html`

Events can be removed from the
DOM in 2 ways

remove

detach

remove

This removes the element from the DOM and also removes all event handlers!

remove

This removes the element from
the DOM and also **removes all
event handlers!**

If you re-attach the element
then the original event handlers
will no longer exist

Events can be removed from the
DOM in 2 ways

remove

detach

detach

This removes the element from the DOM but preserves the event handlers which exist on the element

detach

This removes the element from the DOM but **preserves the event handlers** which exist on the element

If you re-add the element then we get back its **original state** complete with event handlers

Events can be removed from the
DOM in 2 ways

remove

detach

remove

detach

It's often useful to remove/
detach elements from the DOM
before manipulation changes on
the element

RemoveDetachEmptyElements.html

remove

detach

This avoids the very expensive
re-rendering of the page when
the changes are made

remove

detach

This avoids the very expensive
re-rendering of the page when
the changes are made

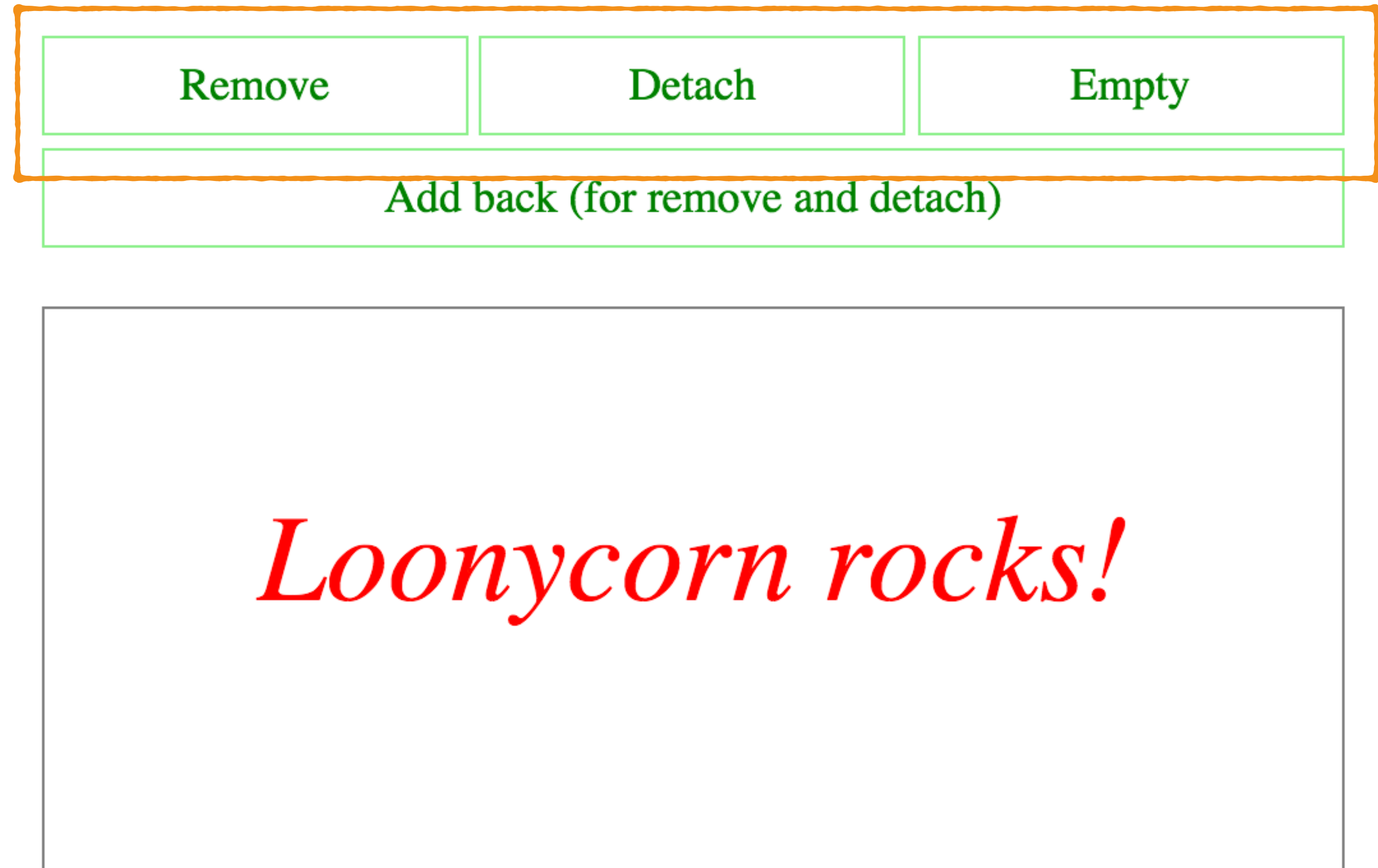
Once changes are complete you can
add it back leading to a one time
render - this is much more performant

RemoveDetachEmptyElements.html

Example37Demo

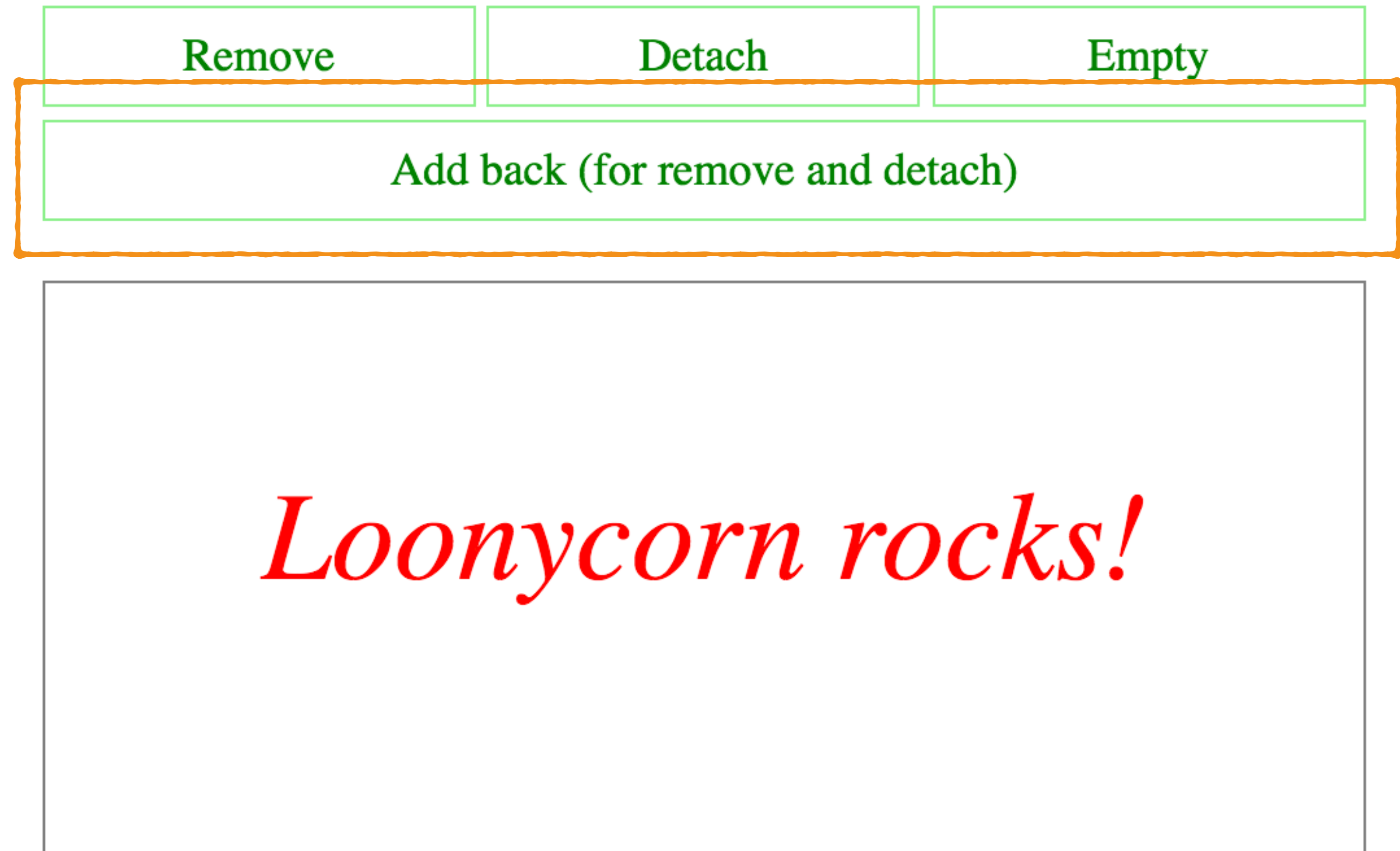
RemoveDetachEmptyElements.html

```
<body>
<div class="remove link">
  Remove
</div>
<div class="detach link">
  Detach
</div>
<div class="empty link">
  Empty
</div>
<br>
<div class="link add">
  Add back (for remove and detach)
</div>
<br>
<br>
<div id="container">
  <div class="box">
    <i>Loonycorn rocks!</i>
  </div>
</div>
<br>
</body>
```



RemoveDetachEmptyElements.html

```
<body>
<div class="remove link">
  Remove
</div>
<div class="detach link">
  Detach
</div>
<div class="empty link">
  Empty
</div>
<br>
<div class="link add">
  Add back (for remove and detach)
</div>
<br>
<br>
<div id="container">
  <div class="box">
    <i>Loonycorn rocks!</i>
  </div>
</div>
<br>
</body>
```



RemoveDetachEmptyElements.html

```
<body>
<div class="remove link">
  Remove
</div>
<div class="detach link">
  Detach
</div>
<div class="empty link">
  Empty
</div>
<br>
<div class="link add">
  Add back (for remove and detach)
</div>
<br>
<br>
<div id="container">
  <div class="box">
    <i>Loonycorn rocks!</i>
  </div>
</div>
<br>
</body>
```

Remove

Detach

Empty

Add back (for remove and detach)

Loonycorn rocks!

RemoveDetachEmptyElements.html

```
$(document).ready(function () {  
    var el = $('.box');  
  
    el.click(function() {  
        alert('Click event! And Loonycorn rocks!');  
    });  
  
    $('.remove').click(function() {  
        el = $('.box').remove();  
    });  
  
    $('.detach').click(function() {  
        el = $('.box').detach();  
    });  
  
    $('.empty').click(function() {  
        $('.box').empty();  
    });  
  
    $('.add').click(function() {  
        $('#container').append(el);  
    });  
});
```

All actions which
apply to the
element with the
box class applied

RemoveDetachEmptyElements.html

```
$(document).ready(function () {  
    var el = $('.box');  
    el.click(function() {  
        alert('Click event! And Loonycorn rocks!');  
    });  
  
    $('.remove').click(function() {  
        el = $('.box').remove();  
    });  
  
    $('.detach').click(function() {  
        el = $('.box').detach();  
    });  
  
    $('.empty').click(function() {  
        $('.box').empty();  
    });  
  
    $('.add').click(function() {  
        $('#container').append(el);  
    });  
});
```

Store a reference
to the element
which is to be
acted on

RemoveDetachEmptyElements.html

```
$(document).ready(function () {  
    var el = $('.box');
```

```
    el.click(function() {  
        alert('Click event! And Loonycorn rocks!');  
    });
```

```
    $('.remove').click(function() {  
        el = $('.box').remove();  
    });
```

```
    $('.detach').click(function() {  
        el = $('.box').detach();  
    });
```

```
    $('.empty').click(function() {  
        $('.box').empty();  
    });
```

```
    $('.add').click(function() {  
        $('#container').append(el);  
    });
```

```
});
```

Add an alert on click, any event handler works as well for this

RemoveDetachEmptyElements.html

```
$(document).ready(function () {  
    var el = $('.box');  
  
    el.click(function() {  
        alert('Click event! And Loonycorn rocks!');  
    });
```

```
    $('.remove').click(function() {  
        el = $('.box').remove();  
    });
```

```
    $('.detach').click(function() {  
        el = $('.box').detach();  
    });
```

```
    $('.empty').click(function() {  
        $('.box').empty();  
    });
```

```
    $('.add').click(function() {  
        $('#container').append(el);  
    });
```

```
});
```

remove() and
detach() are
functions on the
jQuery object

RemoveDetachEmptyElements.html

Store a reference
to the jQuery object
which was removed
from the DOM

We'll need it to add
it back

```
$(document).ready(function () {  
    var el = $('.box');  
  
    el.click(function() {  
        alert('Click event! And Loonycorn rocks!');  
    });  
  
    $('.remove').click(function() {  
        el = $('.box').remove();  
    });  
  
    $('.detach').click(function() {  
        el = $('.box').detach();  
    });  
  
    $('.empty').click(function() {  
        $('.box').empty();  
    });  
  
    $('.add').click(function() {  
        $('#container').append(el);  
    });  
});
```

RemoveDetachEmptyElements.html

```
$(document).ready(function () {  
    var el = $('.box');  
  
    el.click(function() {  
        alert('Click event! And Loonycorn rocks!');  
    });  
  
    $('.remove').click(function() {  
        el = $('.box').remove();  
    });  
  
    $('.detach').click(function() {  
        el = $('.box').detach();  
    });  
  
    $('.empty').click(function() {  
        $('.box').empty();  
    });  
  
    $('.add').click(function() {  
        $('#container').append(el);  
    });  
});
```

The empty()
function just
removes all the
content within the
selected element

RemoveDetachEmptyElements.html

```
$(document).ready(function () {  
    var el = $('.box');  
  
    el.click(function() {  
        alert('Click event! And Loonycorn rocks!');  
    });  
  
    $('.remove').click(function() {  
        el = $('.box').remove();  
    });  
  
    $('.detach').click(function() {  
        el = $('.box').detach();  
    });  
  
    $('.empty').click(function() {  
        $('.box').empty();  
    });  
  
    $('.add').click(function() {  
        $('#container').append(el);  
    });  
});
```

It does not remove
the element itself

RemoveDetachEmptyElements.html

```
$(document).ready(function () {  
    var el = $('.box');  
  
    el.click(function() {  
        alert('Click event! And Loonycorn rocks!');  
    });  
  
    $('.remove').click(function() {  
        el = $('.box').remove();  
    });  
  
    $('.detach').click(function() {  
        el = $('.box').detach();  
    });  
  
    $('.empty').click(function() {  
        $('.box').empty();  
    });  
  
    $('.add').click(function() {  
        $('#container').append(el);  
    });  
});
```

The add button
simply adds the
element back to the
DOM using append()

RemoveDetachEmptyElements.html

```
$(document).ready(function () {  
    var el = $('.box');  
  
    el.click(function() {  
        alert('Click event! And Loonycorn rocks!');  
    });  
  
    $('.remove').click(function() {  
        el = $('.box').remove();  
    });  
  
    $('.detach').click(function() {  
        el = $('.box').detach();  
    });  
  
    $('.empty').click(function() {  
        $('.box').empty();  
    });  
  
    $('.add').click(function() {  
        $('#container').append(el);  
    });  
});
```

The event handlers
are preserved in the
case of detach() but
not in the case of
remove()

EXAMPLE 38

WrapAndWrapAll.html

WrapAndWrapAll.html

Example38Demo

WrapAndWrapAll.html

```
<body>
<div class="wrap link">
  Wrap
</div>
<div class="wrapall link">
  Wrap All
</div>
<br>
<br>
<div id="container">
  <div class="box">
    Loonycorn rocks!
  </div>
  <div class="box">
    Loonycorn rocks!
  </div>
  <div class="box">
    Loonycorn rocks!
  </div>
  <div class="box">
    Loonycorn rocks!
  </div>
</div>
<br>
</body>
```

Wrap

Wrap All

Loonycorn rocks!
Loonycorn rocks!
Loonycorn rocks!
Loonycorn rocks!

WrapAndWrapAll.html

```
$(document).ready(function () {  
    $('.wrap').click(function() {  
        $('.box').wrap('<div class="outer-box"></div>');  
    });  
  
    $('.wrapall').click(function() {  
        $('.box').wrapAll('<div class="outer-box"></div>');  
    });  
});
```

The wrap() function
wraps each selected
element with the HTML
specified

```
<body>  
<div class="wrap link">  
    Wrap  
</div>  
<div class="wrapall link">  
    Wrap All  
</div>  
<br>  
<br>  
<div id="container">  
    <div class="box">  
        Loonycorn rocks!  
    </div>  
    <div class="box">  
        Loonycorn rocks!  
    </div>  
    <div class="box">  
        Loonycorn rocks!  
    </div>  
    <div class="box">  
        Loonycorn rocks!  
    </div>  
</div>  
<br>  
</body>
```

WrapAndWrapAll.html

```
$(document).ready(function () {  
    $('.wrap').click(function () {  
        $('.box').wrap('<div class="outer-box"></div>');  
    });  
  
    $('.wrapall').click(function () {  
        $('.box').wrapAll('<div class="outer-box"></div>');  
    });  
});
```

Select elements with
the box class applied and
wrap each with HTML

```
<body>  
<div class="wrap link">  
    Wrap  
</div>  
<div class="wrapall link">  
    Wrap All  
</div>  
<br>  
<br>  
<div id="container">  
    <div class="box">  
        Loonycorn rocks!  
    </div>  
    <div class="box">  
        Loonycorn rocks!  
    </div>  
    <div class="box">  
        Loonycorn rocks!  
    </div>  
    <div class="box">  
        Loonycorn rocks!  
    </div>  
</div>  
<br>  
</body>
```


WrapAndWrapAll.html

```
$(document).ready(function () {  
    $('.wrap').click(function () {  
        $('.box').wrap('<div class="outer-box"></div>');  
    });  
  
    $('.wrapall').click(function () {  
        $('.box').wrapAll('<div class="outer-box"></div>');  
    });  
});
```

```
<div class="outer-box">  
    <div class="box">  
        Loonycorn rocks!  
    </div>  
</div>
```

Each element gets
the outer-box as a
wrapper

WrapAndWrapAll.html

```
$(document).ready(function () {  
    $('.wrap').click(function () {  
        $('.box').wrap('<div class="outer-box"></div>');  
    });  
  
    $('.wrapall').click(function () {  
        $('.box').wrapAll('<div class="outer-box"></div>');  
    });  
});
```

```
<div class="outer-box">  
    <div class="box">  
        Loonycorn rocks!  
    </div>  
</div>
```

Each element gets
the outer-box as a
wrapper

WrapAndWrapAll.html

```
$(document).ready(function () {  
    $('.wrap').click(function() {  
        $('.box').wrap('<div class="outer-box"></div>');  
    });  
  
    $('.wrapall').click(function() {  
        $('.box').wrapAll('<div class="outer-box"></div>');  
    });  
});
```

The wrapAll() method
adds the HTML as the
parent of all the
selected elements

```
<body>  
<div class="wrap link">  
    Wrap  
</div>  
<div class="wrapall link">  
    Wrap All  
</div>  
<br>  
<br>  
<div id="container">  
    <div class="box">  
        Loonycorn rocks!  
    </div>  
    <div class="box">  
        Loonycorn rocks!  
    </div>  
    <div class="box">  
        Loonycorn rocks!  
    </div>  
    <div class="box">  
        Loonycorn rocks!  
    </div>  
</div>  
<br>  
</body>
```

WrapAndWrapAll.html

```
$(document).ready(function () {  
    $('.wrap').click(function() {  
        $('.box').wrap('<div class="outer-box"></div>');  
    });  
  
    $('.wrapall').click(function() {  
        $('.box').wrapAll('<div class="outer-box"></div>');  
    });  
});
```

```
<div id="container">  
    <div class="outer-box">  
        <div class="box">  
            Loonycorn rocks!  
        </div>  
        <div class="box">  
            Loonycorn rocks!  
        </div>  
        <div class="box">  
            Loonycorn rocks!  
        </div>  
        <div class="box">  
            Loonycorn rocks!  
        </div>  
    </div>  
</div>
```

All the elements with
the **box** class applied
gets the **outer-box** as a
wrapper

EXAMPLE 39

Each.html

Each.html

Example39Demo

Each.html

```
<body>
<div class="each link">
  Each
</div>
<br>
<br>
<div id="container">
  <div class="box">
    Loonycorn rocks!
  </div>
  <div class="box">
    Loonycorn rocks!
  </div>
  <div class="box">
    Loonycorn rocks!
  </div>
  <div class="box">
    Loonycorn rocks!
  </div>
</div>
<br>
</body>
```

Each

Loonycorn rocks!
Loonycorn rocks!
Loonycorn rocks!
Loonycorn rocks!

Each.html

```
$(document).ready(function () {  
  $(' .each' ).click(function() {  
    $(' .box' ).each(function() {  
      $(this).addClass( 'outer-box' );  
    });  
  });  
});
```

Each

Loonycorn rocks!
Loonycorn rocks!
Loonycorn rocks!
Loonycorn rocks!

The `.each()` function is
an explicit iteration
over all the selected
elements

Each.html

```
$(document).ready(function () {  
    $('.each').click(function() {  
        $('.box').each(function() {  
            $(this).addClass('outer-box');  
        });  
    });  
});
```

Each

Loonycorn rocks!
Loonycorn rocks!
Loonycorn rocks!
Loonycorn rocks!

Add the outer-box class
to each selected element

Each.html

```
$(document).ready(function () {  
  $(' .each' ).click(function() {  
    $(' .box' ).each(function() {  
      $(this).addClass( 'outer-box' );  
    });  
  });  
});
```

Each

Loonycorn rocks!
Loonycorn rocks!
Loonycorn rocks!
Loonycorn rocks!

**\$(this) refers to each
selected element in turn**