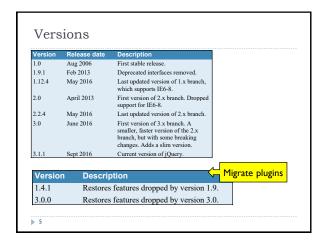
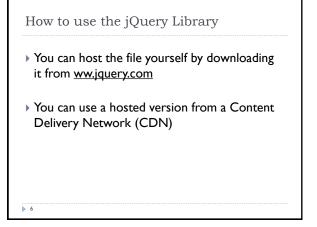


jQuery
 2006 by John Resig
 Current Version (Sept 2016) - v3.1.1
 Other libraries

 Dojo - 2004
 YUI (Yahoo User Interface) - 2005
 Prototype, Mootools - 2006
 Angular, Backbone, React, Ember, Node.js,

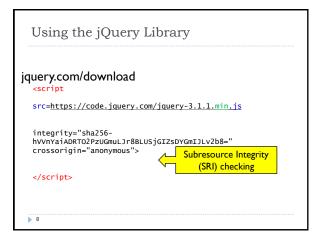




How to use the jQuery Library - CDN

Google Hosted Library

<script
 src="http://ajax.googleapis.com/ajax/libs/
 jquery/3.1.1/jquery.min.js">
 </script>



Download the file and host it yourself <script src="jquery.js"> </script>

```
What is the "min" all about?

The minified version

Minification

removes all unnecessary characters from source code
without changing its functionality
these characters usually include white space characters, new line characters, comments, and sometimes block delimiters
which are used to add readability to the code but are not required for it to execute
```

▶ 10

Where to put jQuery code

Place this code after any CSS in the <head>
- jQuery references styles from the stylesheet

Must precede any other JavaScript in the <head>

Can also place all of the jQuery at the bottom

```
The "ready" event

$(document).ready();

waits until the HTML page has loaded before it runs your code
similar to window.onload

$ is used to indicate an object reference
```

```
The ready event

<script src="http://code.jquery.com/jquery-latest.min.js"></script>

<script>
$(document).ready(function() {

// code here
});

Ending trio

Identify the proof of the pro
```

```
The ready event shorthand

(function() {
    // code here
});
```

```
Testing the Library

$(document).ready(function() {
    alert("The DOM is ready");
}); // end ready
```

```
jQuery

Based upon CSS selectors

• element

• class

• id

• others
```

```
Also based upon selectors

document.getElementById("some_id");

document.getElementsByTagName("some_tag");
```

```
$\text{Selector Syntax}
$('selector');
$("selector");
```

```
Selector Syntax

Element selector

<h1></h1>
$("h1");
```

```
Selector Syntax
id selector
<h1 id="firstHeading"></h1>
$("#firstHeading");
```

```
Selector Syntax

class selector

<h1 class="red"></h1>

$(".red");
```

```
Selector Syntax

descendant selector

<h1 class="red"> A <i>big</i> cat</h1>
$(".red i");
```

```
Selector Syntax
multiple selectors
<h1 class="red"> A <i>big</i> cat</h1>
<h2 id="xyz"> A unique heading </h2>
$(".red i, #xyz");
```

```
Syntax for Calling Methods

$("selector").methodName(optional parameters);

methods can get or set a value
```

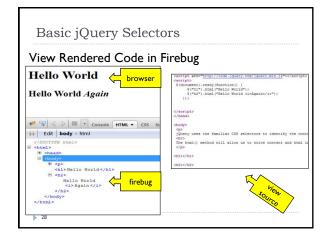
```
Common Methods
val()
                                  Retrieve value from textbox
val(value)
                                 Sets value for textbox
text()
                                 Retrieve text of selected element
text(value)
                                 Set text of selected element
next(type)
                                 Get the next sibling of the specified type
                                 Retrieve the HTML of the selected element
html()
html(value)
                                 Set the HTML of the selected element
                                  Retrieve the value
css(propertyName)
css(propertyName, value) Set the property/value
> 26
```

```
Basic jQuery Selectors

element selector

$(document).ready(function() {
    $("h1").html("Hello World");
    $("h2").html("Hello World <i>Again</i>");
});

<h1> </h1>
<h2> </h2>
</b2>
```



```
Sasic jQuery Methods - html() set

$(document).ready(function() {

$("h1").html("<i>Hello</i>World");

});

Hello World

Hello World

<h1>first h1</h1>
<h1>second h1</h1>

all selections
and descendants

> 31
```

```
Basic jQuery Methods - text() get

$(document).ready(function() {
    var theH1 = $("h1").text();
    alert(theH1);
});

<h1><i>First</i> h1</h1>
<h1>Second h1</h1>

all selections
and descendants

all selections
and descendants
```

```
Basic jQuery Methods - css() set

$(document).ready(function() {
    $("h1").css("color" , "blue");
});

| Ch1>First H1 Heading</h1>
| Ch1>Fir
```

```
Basic jQuery Methods - css() get

$(document).ready(function() {
    var theValue = $("h1").css("color");
    alert(theValue);
});

only first selection

<h1 style="color: blue">First H1 Heading</h1>
<h1 style="color: red">Second H1 Heading</h1>
<h1 style="color: red">Second H2 Heading</h1></h1></h1>
<h2 style="color: red"</h>
<h2 style="color: red"</h>
<h3 style="color: red"</h>
<h3 style="color: red"</h>
<h3 style="color: red"</h>
<h4 style="
```

```
Basic jQuery Methods - chaining

$(document).ready(function() {

    $("h1").html("<i>Hello</i> world")
    .css("color" , "red");

});

<h1></h1>
```

```
Two common jQuery event methods

ready()
The event handler runs when the DOM is ready

click()
The event handler runs when the selected element is clicked
```