

Dev8D 2012

Introduction to jQuery

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Prerequisites and assumptions

- A running computer
- Basic working knowledge of HTML, CSS and Javascript
- Firefox browser with Firebug
 - Any browser should work, but this combination is recommended
- Your favoured text editor
- A copy of sample files from GitHub:
 - <https://github.com/Dev8D/Dev8D/tree/master/2012/jQuery>

This session

- Starting from a very simple “Hello world” webpage, add successive jQuery-based capabilities to create a simple dynamic web page
- Estimated time 30 minutes
- Sample files are provided for each step, but you should feel free to experiment with the code as you build it, to get a good feel for what the code is actually doing, and how to bend it to *your* will

1. Hello World

```
<html>

<head>
<script type="text/javascript"
        src="js/jquery-1.7.1.js"></script>
<script type="text/javascript">
    $(document).ready(function() {
        $('#name').text("World");
    });
</script>
</head>

<body>
    <h2>Hello <span id="name">?</span></h2>
</body>

</html>
```

file:///usr/wor...HelloWorld.html



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Hello World

2. User Input

```
:  
<script type="text/javascript">  
  $(document).ready(function() {  
    $('#name').text("World");  
    $('#body button').click(function() {  
      $('#name').text($('#yourname').val());  
    });  
  });  
</script>  
</head>  
  
<body>  
  <h2>Hello <span id="name">?</span></h2>  
  Enter your name here: <input id="yourname"></input>  
  <button>Update</button>  
</body>
```

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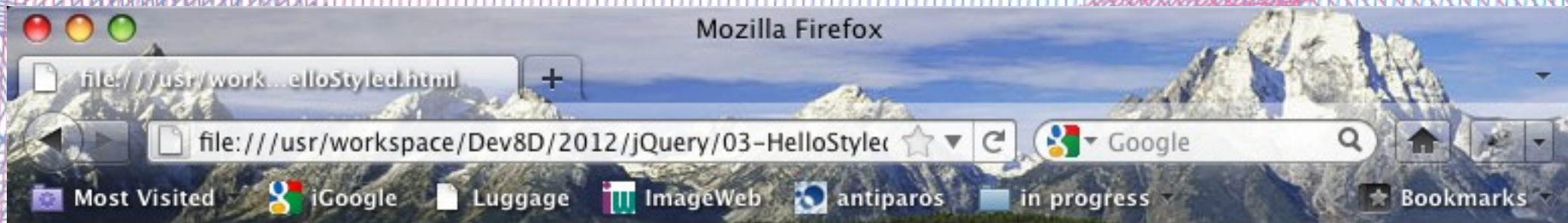
Bookmarks

Hello Dev8D

Enter your name here:

3. Adding style

```
<script type="text/javascript">
  $(document).ready(function() {
    $('#name').text("World");
    $('body button').click(function() {
      $('#name').text($('#yourname').val());
      $('#name').css('color', 'red');
      $('#name').css(
        { 'font-family': 'cursive',
          'font-size': 'larger' });
    });
  });
</script>
```

Hello *Dev8D*

Enter your name here:



4. Using functions and CSS

```
$('#flashfirst').click(flashFirstById);  
$('#flashsecond').click(flashSecondById);
```

```
function flashFirstById() { flashYellow($('#first')); }  
function flashSecondById() { flashPink($('#second')); }  
function flashYellow(jqueryobject){  
    jqueryobject.each( function(index, elem) {  
        $(elem).toggleClass('highlightyellow');  
    });  
};  
function flashPink(jqueryobject){  
    jqueryobject.each( function(index, elem) {  
        $(elem).toggleClass('highlightpink');  
    });  
};
```

```
<style>  
    .highlightyellow { background-color:yellow; }  
    .highlightpink { background-color:rgb(255,128,128); }  
</style>
```

4. Using functions and CSS

```
<div>  
<button id='flashfirst'>flash first</button>  
<button id='flashsecond'>flash second</button>  
</div>
```

```
<div>  
  <ol>  
    <li id="first">First  
      <ul>  
        <li>1 sub 1</li>  
        <li>1 sub 2</li>  
      </ul>  
    </li>  
    <li id="second">Second  
      <ul>  
        <li>2 sub 1</li>  
        <li>2 sub 2</li>  
      </ul>  
    </li>  
  </ol>  
</div>
```


Hello World

Enter your name here:

Update

flash first

flash second

1. First

- 1 sub 1
- 1 sub 2

2. Second

- 2 sub 1
- 2 sub 2

5. Selectors

```
function flashFirstById() { flash($('#first'), 'highlightyellow'); }
function flashSecondById() { flash($('#second'), 'highlightpink'); }
function flashByName() { flash($('button'), 'highlightgreen'); }
function flashByClass() { flash($('.aaa'), 'highlightblue'); }
function flashByNesting() {
    flash($('ol li'), 'textred');
    flash($('ul li'), 'textgreen');
};
function flashByAttribute() {
    flash($(' [test="select"] '), 'textgreen');
};
function flashByPos() {
    flash($('li').eq(3), 'textred');
    flash($('li').eq(4), 'textblue');
};

function flash(jqueryobject, cssclass) {
    jqueryobject.each( function(index, elem) {
        $(elem).toggleClass(cssclass);
    });
};
```

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Hello World

Enter your name here:

1. First

- o 1 sub 1
- o 1 sub 2

2. Second

- o 2 sub 1
- o 2 sub 2

3. Third

- o 3 sub 1
- o 3 sub 2

6. Modularization

```
<head>
  <link rel="stylesheet" type="text/css"
        href="css/06-HelloModular.css" />
  <script type="text/javascript"
        src="js/jquery-1.7.1.js"></script>
  <script type="text/javascript">
    jQuery.noConflict(); // Don't define jQuery "$" variable
  </script>

  <script type="text/javascript"
        src="js/06-HelloModular.js/"></script>
  <script type="text/javascript">
    jQuery(document).ready(function() {
      Hello.registerHandlers()
    });
  </script>

</head>
```

6. Modularization

```
if ( typeof(Hello) == "undefined" ) Hello = {};
```

```
(function ($) {
```

Namespace

```
    Hello.registerHandlers = function () {  
        $('#name').text("World");  
    };  
    
```

```
    Hello.flashFirstById = function () {  
        Hello.flash($('#first'), 'highlightyellow');  
    };  
    
```

```
    Hello.flash = function (jqueryobject, cssclass) {  
        jqueryobject.each( function(index, elem) {  
            $(elem).toggleClass(cssclass);  
        });  
    };  
    
```

```
})(jQuery);
```


6. Simple dynamic content

```
<h2>
Hello <span id="name">?</span>&nbsp;
<button id="showNameEntryBox">
  <span class="showhide">Show</span>
  entry form
</button>
</h2>
```

```
$("#NameEntryBox").hide();
$("#showNameEntryBox").click( function (event) {
  Hello.showHide(event, "#NameEntryBox")
});
```

```
Hello.showHide = function(event, selector) {
  if ($(event.currentTarget).find(".showhide").text()
    == "Hide") {
    $(selector).hide();
    $(event.currentTarget).find(".showhide").text("Show");
  } else {
    $(selector).show();
    $(event.currentTarget).find(".showhide").text("Hide");
  };
};
```


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Hello World

[Show entry form](#)[Show selector buttons](#)

1. First

- 1 sub 1
- 1 sub 2

2. Second

- 2 sub 1
- 2 sub 2

3. Third

- 3 sub 1
- 3 sub 2

(End of session 1)