

FUN WITH JQUERY

Javascript development
for the rest of us

What is JQuery?

According to their site: *jQuery is a fast and concise JavaScript Library that simplifies HTML document traversing, event handling, animating, and Ajax interactions for rapid web development. jQuery is designed to change the way that you write JavaScript.*

In simple terms, JQuery is a Javascript framework that has many built-in functionalities to allow us to easily incorporate interactivity between our files and the user. Using it effectively reduces development time.

A little background

- * Developed by John Resig of Mozilla - <http://ejohn.org>
- * jQuery was first announced at BarCamp NYC in 2006.
- * The growth of jQuery has exploded. They now have a team of developers working on jQuery including a UI team, Documentation Team, etc.
- * Both Microsoft and Nokia have announced they will be incorporating jQuery in their systems.

Why use JQuery?

- * Reduction in development time.
- * JQuery is:
 - Lightweight.
 - CSS3 compliant.
 - Cross-browser compatible: IE 6+, FireFox 2+, Safari 3+, Chrome, Opera 9+.
- * Easier syntax than straight-up Javascript code.
- * Easy skinning with the JQuery Theme Picker.
- * There is no shortage of documentation nor plugins (widgets).
- * These prebuilt plugins are highly customizable.

No need to reinvent the wheel: JQuery UI

According to their site: *jQuery UI provides abstractions for low-level interaction and animation, advanced effects and high-level, themeable widgets, built on top of the jQuery JavaScript Library, that you can use to build highly interactive web applications.*

For us it means an improved user experience without having to allocate resources to develop these technologies.

How does JQuery work?

- * JQuery allows you to select elements from your html code and apply attributes, effects, and classes to them.
- * JQuery uses different selectors including (but not limited to):
 - * html tags like `<p>` or ``.
 - * CSS ID or class selectors (`.myElementID;` `#myClass`).

Where do I get JQuery?

* Download the library from:

<http://jquery.com/>

* Download the UI library (optional) at:

<http://jqueryui.com/>

How to install JQuery

- * Step 1: Download the JS file and call it the same way you include any script file:

```
<script type="text/javascript" src="js/jquery.js"></script>
```

- * Step 2: ???
- * Step 3: Profit!

I am including JQuery, now what?

We start coding!

Take the following code example:

```
<script type="text/javascript" id="example">  
  
    $(document).ready(function(){  
  
        //Do something... anything, really...  
  
    });  
  
</script>
```

Everything inside it will load as soon as the DOM is loaded and before the page contents are loaded.

JQuery Structure

In JQuery we can string commands (effects or attributes) together. Like so:

```
$("#banner").addClass("highlighted").show("slow");
```

The previous code takes everything that has an id of “banner” and adds the class called “highlighted” them. It then displays these elements to the user using the “show” function.

JQuery Structure

```
$("#banner").addClass("highlighted").show("slow");
```

The selector..

```
jQuery("#banner")
```

The attribute..

```
addClass("highlighted")
```

The effect..

```
show("slow")
```

Full Code Example

```
1. <!DOCTYPE html>
2. <html lang="en">
3. <head>
4.   <meta http-equiv="Content-Type" content="text/html; charset=utf-8">
5.   <script src="http://ajax.googleapis.com/ajax/libs/jquery/1.3/jquery.min.js" type="text/javascript"></script>
6.   <script type="text/javascript">
7.     $(document).ready(function(){
8.         $("p").click(function () {
9.             $(this).slideUp();
10.        });
11.        $("p").hover(function () {
12.            $(this).addClass("hilite");
13.        }, function () {
14.            $(this).removeClass("hilite");
15.        });
16.    });
17. </script>
18. </head>
19. <body>
```

Full Code Example

```
1. <!DOCTYPE html>
2. <html lang="en">
3. <head>
4.   <meta http-equiv="Content-Type" content="text/html; charset=utf-8">
5.   <script src="http://ajax.googleapis.com/ajax/libs/jquery/1.3/jquery.min.js" type="text/javascript"></script>
6.   <script type="text/javascript">
7.     $(document).ready(function(){
8.       $("a").click(function(event){
9.         alert("As you can see, the link no longer took you to jquery.com");
10.        event.preventDefault();
11.      });
12.    });
13.
14.  </script>
15. </head>
16. <body>
17.   <a href="http://jquery.com/">jQuery</a>
18. </body>
19. </html>
```

Some samples of JQuery

* [http://
www.myphpdunia
.com/2009/04/19/
top-10-jquery-
examples-with-
live-demos/](http://www.myphpdunia.com/2009/04/19/top-10-jquery-examples-with-live-demos/)



Bloggers talking about jQuery and ColdFusion

- * Ray Camden - coldfusionjedi.com
- * John Farrar - sosensible.com
- * Dan Wilson – nodans.com & cfuniform.riaforge.org
- * J.J Merrick – JeremiahX.com
- * John Mason - codfusion.com

Books and Online Resources

- * <http://www.learningjquery.com>
- * <http://docs.jquery.com> - JQuery documentation
- * <http://api.jquery.com> - JQuery API browser
- * “Learning jQuery 1.3” by Karl Swedberg & Jonathan Chaffer
- * “jQuery in Action” by Bear Bibeault, Yehuda Katz, and John Resig

FIN