



jQuery

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Why Libraries?

- Makes JavaScript bearable
- Gets the job done fast
- Simplifies cross-browser support

What is jQuery?

- ◆ An open source JavaScript library that simplifies the interaction between HTML and JavaScript.

We missed you!

- ◆ We've been busy:
 - ◆ jQuery 1.1
 - ◆ jQuery 1.1.1
 - ◆ jQuery 1.1.2
 - ◆ jQuery 1.1.3
 - ◆ jQuery 1.1.4
 - ◆ jQuery 1.2
 - ◆ jQuery 1.2.1
 - ◆ jQuery 1.2.2
 - ◆ jQuery 1.2.3
- ◆ ... since the last Drupal release

Major Releases

- ◆ More info:

- ◆ jQuery 1.1:

- <http://jquery.com/blog/2007/01/14/jquery-birthday-11-new-site-new-docs/>

- ◆ jQuery 1.1.3:

- <http://jquery.com/blog/2007/07/01/jquery-113-800-faster-still-20kb/>

- ◆ jQuery 1.1.4:

- <http://jquery.com/blog/2007/08/24/jquery-114-faster-more-tests-ready-for-12/>

- ◆ jQuery 1.2:

- http://docs.jquery.com/Release:jQuery_1.2

- ◆ jQuery 1.2.2:

- http://docs.jquery.com/Release:jQuery_1.2.2

- ◆ jQuery 1.2.3:

- http://docs.jquery.com/Release:jQuery_1.2.3

- ◆ All: http://docs.jquery.com/Downloading_jQuery

The Focus of jQuery

Find Some Elements Do something with them

`$("div").addClass("special");`

 jQuery Object

Keep Clean

- ◆ jQuery can be rename '\$':

```
var $jq = jQuery.noConflict();  
$jq("div").hide();
```
- ◆ jQuery can even rename 'jQuery' allowing multiple copies of jQuery to work side-by-side.
- ◆

```
var $a = jQuery.noConflict(true);  
// load other version of jQuery  
$a("div").hide(); // still works!
```

Find Some Elements...

- ◆ Full CSS Selector 1-3 Support
- ◆ Better CSS Selector support than most browsers

\$("div")

```
<div id="body">  
  <h2>Some Header</h2>  
  <div class="contents">  
    <p>...</p>  
    <p>...</p>  
  </div>  
</div>
```

\$("#body")

```
<div id="body">  
  <h2>Some Header</h2>  
  <div class="contents">  
    <p>...</p>  
    <p>...</p>  
  </div>  
</div>
```

\$("div#body")

```
<div id="body">
```

```
<h2>Some Header</h2>
```

```
<div class="contents">
```

```
<p>...</p>
```

```
<p>...</p>
```

```
</div>
```

```
</div>
```

\$("div.contents p")

```
<div id="body">  
  <h2>Some Header</h2>  
  <div class="contents">  
    <p>...</p>  
    <p>...</p>  
  </div>  
</div>
```

`$(".foo > div")`

```
<div id="body">
```

```
  <h2>Some Header</h2>
```

```
  <div class="contents">
```

```
    <p>...</p>
```

```
    <p>...</p>
```

```
  </div>
```

```
</div>
```

\$("div:has(div)")

```
<div id="body">
```

```
<h2>Some Header</h2>
```

```
<div class="contents">
```

```
<p>...</p>
```

```
<p>...</p>
```

```
</div>
```

```
</div>
```

Do something with them

- ◆ **DOM Manipulation** (append, prepend, remove)
- ◆ **Events** (click, hover, toggle)
- ◆ **Effects** (hide, show, slideDown, fadeOut)
- ◆ **AJAX** (load, get, post)

DOM Manipulation

- ◆ `$(“a[target=_blank]”).append(“ (Opens in New Window)”);`
- ◆ `$(“#body”).css({
border: “1px solid green”,
height: “40px”
});`

Events

- ◆ `$(“form”).submit(function(){
 if ($(“input#name”).val() == “”) {
 $(“span.help”).show();
 return false;
 }
});`
- ◆ `$(“a#open”).click(function(){
 $(“#menu”).show();
 return false;
});`

Animations

- ◆ `$("#menu").slideDown("slow");`

- ◆ Individual properties:

```
$("#div").animate({  
  fontSize: "2em",  
  width: "+=20%",  
  color: "green" // via plugin  
});
```

- ◆ Callbacks:

```
$("#div").hide(500, function(){  
  // $(this) is an individual <div> element  
  $(this).show(500);  
});
```

Ajax

- ◆ `$("#body").load("sample.html");`
- ◆ Before:
`<div id="body"></div>`
- ◆ After:
`<div id="body">
<h1>Hello, world!</h1>
</div>`
- ◆ `$.getJSON("test.json", function(js){
 for (var name in js)
 $("#ul").append("" + name + "");
});`

Ajax (cont.)

- ◆ `$("#body").load("sample.html h1:first");`

- ◆ Before:

```
<div id="body"></div>
```

- ◆ After:

```
<div id="body">
```

```
<h1>Hello, world!</h1>
```

```
</div>
```

Chaining

- ◆ You can have multiple actions against a single set of elements
- ◆ `$("#div").hide();`
- ◆ `$("#div").hide().css("color","blue");`
- ◆ `$("#div").hide().css("color","blue").slideDown();`

Chaining (cont.)

```
◆ $("ul.open")
  .children("li")
  .addClass("open")
  .end()
  .find("a")
  .click(function(){
    $(this).next().toggle();
    return false;
  })
  .end();
```

Why jQuery?

- ◆ Fully documented
- ◆ Great community
- ◆ Tons of plugins
- ◆ Small size (15kb)
- ◆ Everything works in IE 6+, Firefox, Safari 2+, and Opera 9+

Accordion Menu

<http://jquery.com/files/apple/>
<http://jquery.com/files/apple/done.html>

Plugins

- ◆ Huge plugin ecosystem
- ◆ Managed by Plugin tracker - built with Drupal!
<http://plugins.jquery.com/>
- ◆ Hundreds in the tracker - even more on the web

jQuery Plugins

- ◆ Extend the jQuery system

- ◆ Add on extra methods:
`$(“div”).hideRemove();`

- ◆ Trivial to implement:

```
jQuery.fn.hideRemove = function(speed){  
    return this.hide(speed, function(){  
        jQuery(this).remove();  
    });  
};
```

Todo List

<http://jquery.com/files/todo/>

<http://jquery.com/files/todo/done.php>

jQuery UI

- ◆ A complete set of themed, cross-browser, user interface components.
- ◆ Drag, Drop, Sort, Select, Resize
- ◆ Accordion, Datepicker, Dialog, Slider, Tabs
- ◆ More info:
<http://docs.jquery.com/UI>
- ◆ 1.5 is in beta right now:
<http://jquery.com/blog/2008/02/12/jquery-ui-15b-new-api-more-features-huge-performance-boost/>

Accessibility

- ◆ Keyboard Accessible
- ◆ Screenreader Accessible
- ◆ Grant from Mozilla Foundation to implement ARIA

Support

- ◆ Liferay (Java CMS) hired Paul Bakaus, jQuery UI lead to work on it full time.
- ◆ More support on the way!

Who uses jQuery?

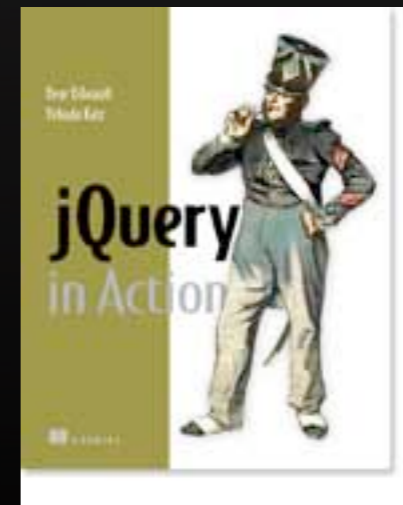
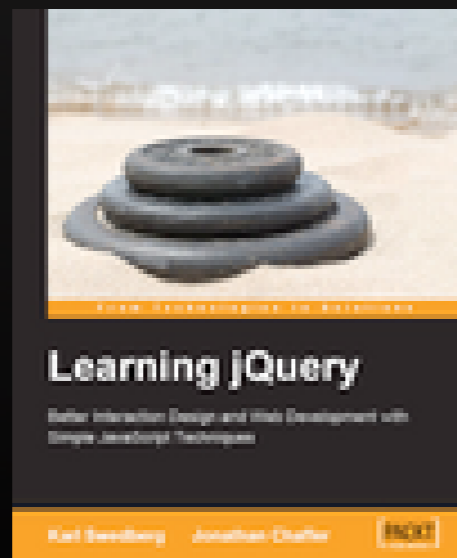
- ◆ Google
- ◆ IBM
- ◆ NBC
- ◆ Amazon
- ◆ Wordpress
- ◆ Digg
- ◆ many others...

Community

- ◆ Very active mailing list
 - ◆ 100+ Posts/Day
 - ◆ 6000+ Members
- ◆ Technorati: Dozens of blog posts per day

Books

- ◆ 3 Books Released:
 - ◆ Learning jQuery (Packt)
 - ◆ jQuery Reference (Packt)
 - ◆ jQuery in Action (Manning)



Random

- ◆ New Logo
- ◆ and New Web Site
- ◆ Coming Soon!

jquery.com

docs.jquery.com - jquery.com/plugins

More:

ui.jquery.com

visualjquery.com

learningjquery.com