



March 2008 - John Resig

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

Refinement

- ◆ API is highly refined
 - ◆ Major focus on speed improvements
 - ◆ Removing un-used functionality
- ◆ Most improvements come from plugins

Existing API

- ◆ A pure psuedo-language for the DOM

- ◆ `$("#items")`
 - `.find("ul")`
 - `.addClass("inner")`
 - `.end()`
 - `.find("li")`
 - `.andSelf()`
 - `.hover(over, off)`
 - `.end()`
 - `.end()`
 - `.show();`

Plugins API

- ◆ Dead simple scheme for adding new jQuery methods:
- ◆

```
jQuery.fn.fadeRemove = function(speed){  
    return this.fadeOut(speed, function(){  
        jQuery(this).remove();  
    });  
};
```
- ◆

```
$(“div.foo”).fadeRemove();
```

Keep Lean

- ◆ We want to keep the core as tight as possible
- ◆ Keep file size and bloat to a minimum
 - ◆ No larger than 15kb gzipped
- ◆ Focus on extensibility for further improvements

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!
```


Keep Lean

- ◆ How can we keep jQuery lean?
 - ◆ Provide more hooks for plugins
- ◆ Hooks:
 - ◆ Animations
 - ◆ Special Events
 - ◆ Namespaced Events
 - ◆ Element Data

Animations

- ◆ Full Animation plugin (in jQuery 1.2):
- ◆ `jQuery.fx.step.corner = function(fx) {
 fx.elem.style.top = fx.now + fx.unit;
 fx.elem.style.left = fx.now + fx.unit;
};`
- ◆ `$("#go").click(function(){
 $("#block").animate({corner: '40px'}, 500);
});`

Special Events

- ◆ Added in jQuery 1.2.2
- ◆ Can create whole shadow event system
- ◆ New events: mouseenter, mouseleave, mousewheel (w/ plugin), ready
- ◆

```
$(“li”).bind(“mouseenter”, function(){  
    $(this).addClass(“hover”);  
}).bind(“mouseleave”, function(){  
    $(this).removeClass(“hover”);  
});
```

Namespaced Events

- ◆ Added in jQuery 1.2
- ◆ Targeted adding and removal of events
- ◆ `$(“div”).bind(“click.foo”, function(){
 alert(“foo!”);
});`
- ◆ Time to clean up!
`$(“div”).unbind(“click.foo”);`
- ◆ Added in jQuery 1.2.3:
`$(“div”).unbind(“.foo”);`

Element Data

- ◆ Added in jQuery 1.2
- ◆ Attaching data to elements can be hazardous
- ◆ Store data:
`jQuery.data(elem, "name", "value");`
- ◆ Read data:
`jQuery.data(elem, "name");`
- ◆ All data is stored in a central cache and completely garbage collected, as necessary

Element Data (cont.)

- ◆ Added in jQuery 1.2.3

- ◆ Can handle namespacing

```
$("#div").data("test", "original");  
$("#div").data("test.plugin", "new data");  
$("#div").data("test") == "original"; // true  
$("#div").data("test.plugin") == "new data"; // true
```

- ◆ Advanced data handling can be overridden by plugins

```
$(element).bind("setData.draggable", function(event, key, value){  
    self.options[key] = value;  
}).bind("getData.draggable", function(event, key){  
    return self.options[key];  
});
```

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 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

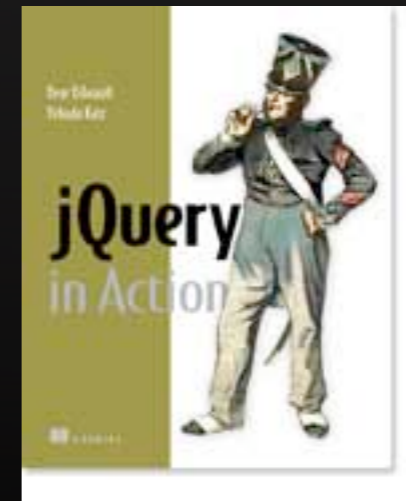
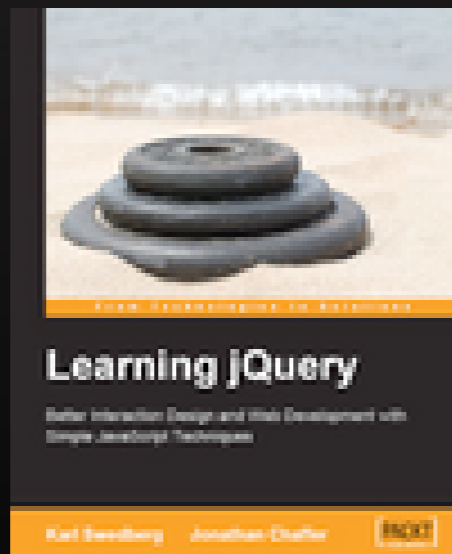
Support

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

jQuery Enchant

- ◆ Color Animations
- ◆ Advanced Queue Control
- ◆ Advanced Animations, made simple:
`$('#fx').show('blind', {direction: 'vertical'});`

Books



Questions?

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