

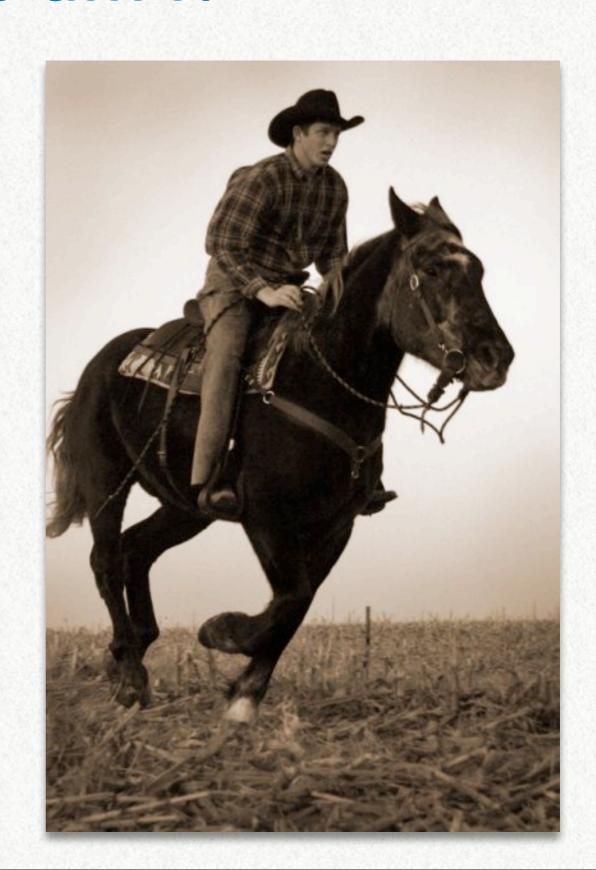
Introduction for Developers

Who am I?

- Jonathan Sharp, Omaha, Nebraska
- Freelance Developer (Out West Media.com)
- jQuery Team member, (web & infrastructure team)
- Co-authored "jQuery Cookbook" (O'Reilly) Q4 2009
- @jdsharp

Who am I?

Own a horse



Overview

- Who, what, and why of jQuery
- 5 core jQuery concepts
- Overview of jQuery API
- Build a plugin in 6 steps
- jQuery Initiatives
- Questions

Who uses jQuery

- 35% of all sites that use JavaScript, use jQuery
- 1 out 5, of all sites, use jQuery

Who uses jQuery

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reddit.com
espn.com
ibm.com
stackoverflow.com
kickball.com
boxee.tv
bit.ly
twitpic.com

whitehouse.gov
wikipedia.org
microsoft.com
amazon.com
netflix.com
bing.com
monster.com
tv.com

overstock.com
time.com
capitalone.com
usatoday.com
ning.com
wordpress.com
dell.com
twitter.com

Who uses jQuery

- 35% of all sites that use JavaScript, use jQuery
- 1 out 5, of all sites, use jQuery

reddit.com espn.com ibm.com

stackoverflow.com

kickball.com boxee.tv bit.ly twitpic.com whitehouse.gov
wikipedia.org
microsoft.com
amazon.com
netflix.com
bing.com
monster.com
tv.com

overstock.com
time.com
capitalone.com
usatoday.com
ning.com
wordpress.com
dell.com
twitter.com

What exactly is jQuery

jQuery is a JavaScript Library!

- Interaction with the DOM (e.g. selecting, creating, traversing, changing etc...)
- JavaScript Events
- Animations
- Ajax interactions

What does that mean?

Add class 'odd' to a table row...

```
var tables = document.getElementsByTagName('table');

for (var t = 0; t < tables.length; t++) {
   var rows = tables[t].getElementsByTagName("tr");
   for (var i = 1; i < rows.length; i += 2) {
      if (!/(^|s)odd(s|$)/.test(rows[i].className)) {
        rows[i].className += 'odd';
      }
   }
};</pre>
```

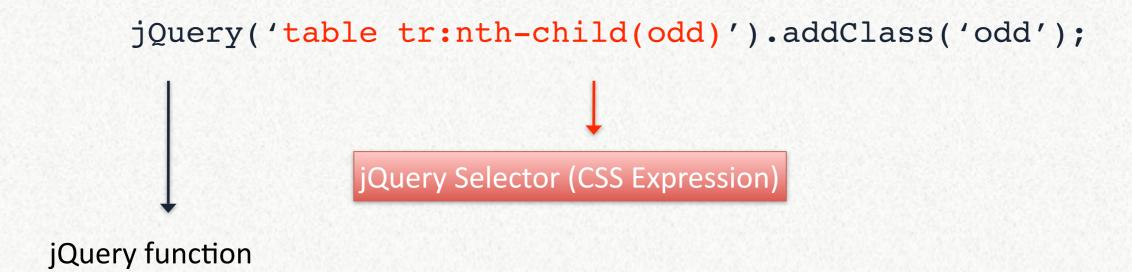
...becomes...

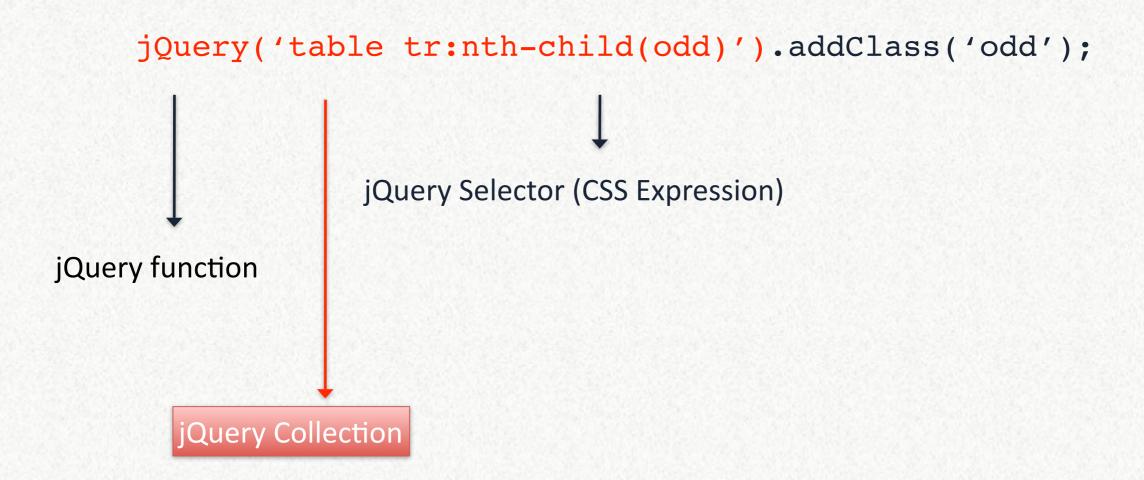
http://jsbin.com/esewu/edit

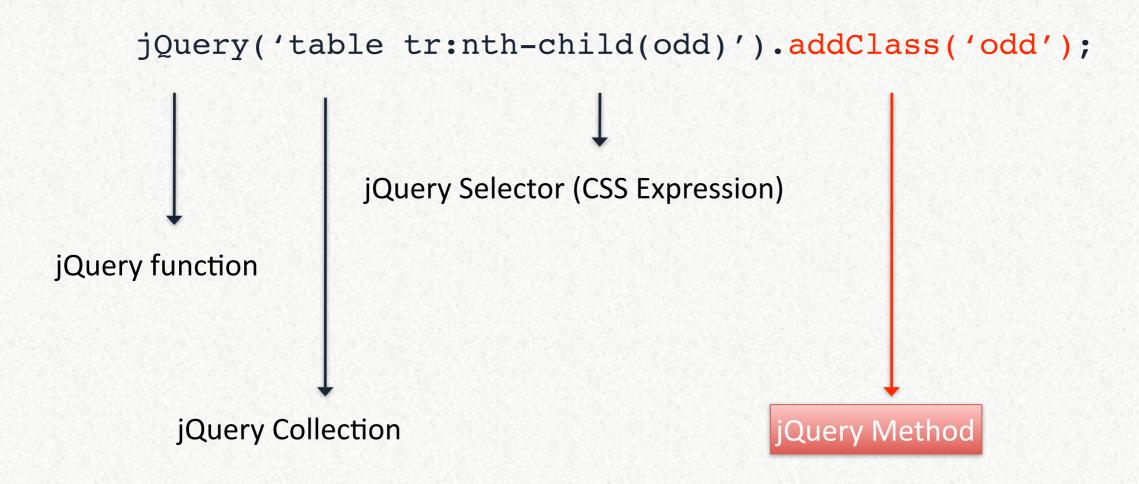
Poetry

```
jQuery('table tr:nth-child(odd)').addClass('odd');
```

```
jQuery('table tr:nth-child(odd)').addClass('odd');
jQuery(table tr:nth-child(odd)').addClass('odd');
jQuery(table tr:nth-child(odd)').addClass('odd');
```







```
jQuery('table tr:nth-child(odd)').addClass('odd');
```

Further Reduced

```
$('table tr:nth-child(odd)').addClass('odd');
```

Further Reduced

```
var jQuery = function(...) { ... };

// $ is a valid variable character in JavaScript
var $ = jQuery;

$('table tr:nth-child(odd)').addClass('odd');
```

It really is the

"write less, do more"

JavaScript Library!

Why use jQuery

- Simplicity, Speeds up web development
- Avoids common headaches w/ browsers
- Extensive list of plugins
- Large & active community
- Extensive test coverage (50 browsers, 11 platforms)
- API for both coders and designers

Why use jQuery over other solutions

- Simplicity, Speeds up web development
- Avoids common headaches w/ browsers
- Extensive list of plugins
- Large & active community
- Extensive test coverage (50 browsers, 11 platforms)
- API for both coders and designers

Ok, lets get to it!

```
<!DOCTYPE html>
<html>
<body>
   ul id='nav'>
      <a href='/home'>home</a>
      <a href='/about'>about</a>
   <script src='jquery.js'></script>
<script>
   $('#nav a').each(function(){
      $(this).attr('href','/' + $(this).text());
   });
</script>
</body>
</html>
```

```
<!DOCTYPE html>
<html>
<body>

</script>
</body>
</html>
```

```
<!DOCTYPE html>
<html>
<body>

<script src='jquery.js'></script>
<script>
<script>
    $('home').wrapInner('a');
</script>
</body>
</html>
```

Concept 3. Chaining & Operating

```
<!DOCTYPE html>
<html>
<body>
   <a href='/home'>home</a>
      <a href='/about'>about</a>
   <script src='jquery.js'></script>
<script>
   $('ul').attr('id','nav');
   $('#nav li').addClass('navLiItem');
   $('#nav a').each(function(){
      $(this).attr('href','/' + $(this).text());
   });
</script>
</body>
</html>
```

Concept 3. Chaining & Operating

```
<!DOCTYPE html>
<html>
<body>
   <a href='/home'>home</a>
      <a href='/about'>about</a>
   <script src='jquery.js'></script>
<script>
   $('ul')
      .attr('id','nav')
      .find('li') // Push stack
         .addClass('navLiItem')
             .find('a') // Push stack
                .each(function(){
                   $(this).attr('href','/' + $(this).text());
                });
</script>
</body>
</html>
```

Concept 4. Understanding Implicit iteration

```
<!DOCTYPE html>
<html>
<body>
   ul id='nav'>
      <a href='/home'>home</a>
      <a href='/about'>about</a>
   <script src='jquery.js'></script>
<script>
   $('ul')
      .attr('id','nav')
      .find('li')
      .addClass('navLiItem')
      .find('a')
      .each(function(){
          $(this).attr('href','/' + $(this).text());
      });
</script>
</body>
</html>
```

Concept 4. Understanding Implicit iteration

```
<!DOCTYPE html>
<html>
<body>
   <a href='/home'>home</a>
      <a href='/about'>about</a>
   <script src='jquery.js'></script>
<script>
   $('ul')
      .attr('id','nav')
      .find('li')
      .addClass('navLiItem')
      .find('a')
      .each(function(){
         $(this).attr('href','/' + $(this).text());
      });
</script>
</body>
</html>
```

Concept 5. Knowing the jQuery parameter types

CSS Selectors & custom CSS expressions

```
e.g. $('#nav') and $(':first')
```

HTML

```
e.g. $('<a href="#">link</a>')
```

DOM Elements

```
e.g. $(document) or $(document.createElement('a'))
```

A function (shortcut for jQuery DOM ready event)

```
e.g. $(function(){}) = $(document).ready(function(){})
```

Review

- Find something, do something
- Create something, do something
- Chaining & Operating
- Understanding Implicit Iteration
- Knowing the jQuery parameter types

jQuery API overview

- Core
- Selectors
- Attributes
- Traversing
- Manipulation
- CSS
- Events
- Effects
- Ajax
- Utilities

- Core
- Selectors
- Attributes
- Traversing
- Manipulation
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- Utilities

```
$()
each()
size()
length()
selector()
context()
eq()
get()
index()
data()
removeData()
queue()
dequeue()
jQuery.fn.extend()
jQuery.extend()
jQuery.noConflict()
```

- Core
- Selectors
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```
$()
each()
size()
length()
selector()
context()
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removeData()
queue()
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jQuery.fn.extend()
jQuery.extend()
jQuery.noConflict()
```

- Core
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```
<!DOCTYPE html>
<html>
<body>

Element Node
<script src="http://ajax.googleapis.com/ajax/libs/
jquery/1.3.2/jquery.min.js" ></script>
<script>
    alert($('p').get(0).nodeType);
</script>

</body>
</html>
```

http://jsbin.com/aneki/edit#html

- Core
- Selectors
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```
<!DOCTYPE html>
<html>
<body>
Element Node
<script src="http://ajax.googleapis.com/ajax/libs/</pre>
jquery/1.3.2/jquery.min.js" ></script>
<script>
    alert($('p').get(0).nodeType);
    alert($('p')[0].nodeType);
</script>
</body>
</html>
```

- Core
- Selectors
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- Core
- Selectors
- Attributes
- Traversing
- Manipulation
- CSS
- Events
- Effects
- Ajax
- Utilities

```
$('#nav li.contact')
```

- Core
- Selectors
- Attributes
- Traversing
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- CSS
- Events
- Effects
- Ajax
- Utilities

```
$('#nav li.contact')
$(':visible')
```

- Core
- Selectors
- Attributes
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- CSS
- Events
- Effects
- Ajax
- Utilities

```
$('#nav li.contact')
$(':visible')
$(':radio:enabled:checked')
```

- Core
- Selectors
- Attributes
- Traversing
- Manipulation
- CSS
- Events
- Effects
- Ajax
- Utilities

```
$('#nav li.contact')
$(':visible')
$(':radio:enabled:checked')
$('a[title]')
```

- Core
- Selectors
- Attributes
- Traversing
- Manipulation
- CSS
- Events
- Effects
- Ajax
- Utilities

```
$('#nav li.contact')
$(':visible')
$(':radio:enabled:checked')
$('a[title]')
$('a[title][href*='foo']')
```

- Core
- Selectors
- Attributes
- Traversing
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- Ajax
- Utilities

```
$('#nav li.contact')
$(':visible')
$(':radio:enabled:checked')
$('a[title]')
$('a[title][href*='foo']')
$('a:first[href*='foo']')
```

- Core
- Selectors
- Attributes
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- Events
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- Utilities

```
$('#nav li.contact')
$(':visible')
$(':radio:enabled:checked')
$('a[title]')
$('a[title][href*='foo']')
$('a:first[href*='foo']')
$('#header,#footer')
```

- Core
- Selectors
- Attributes
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- CSS
- Events
- Effects
- Ajax
- Utilities

```
$('#nav li.contact')
$(':visible')
$(':radio:enabled:checked')
$('a[title]')
$('a[title][href*='foo']')
$('a:first[href*='foo']')
$('#header,#footer')
$('#mainContent,#sidebar','#content')
```

- Core
- Selectors
- Attributes
- Traversing
- Manipulation
- CSS
- Events
- Effects
- Ajax
- Utilities

```
$('#nav li.contact')
$(':visible')
$(':radio:enabled:checked')
$('a[title]')
$('a[title][href*='foo']')
$('a:first[href*='foo']')
$('#header,#footer')
$('#mainContent,#sidebar','#content')
http://codylindley.com/jqueryselectors/
```

- Core
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```
attr()
removeAttr()
addClass()
hasClass()
toggleClass()
removeClass()
val()
```

- Core
- Selectors
- Attributes
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```
attr()
removeAttr()
addClass()
hasClass()
toggleClass()
removeClass()
val()
```

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```
<!DOCTYPE html><html><body>
<input type="text" value="search" />
<script src="jquery.js"></script>
<script>
$('input')
  .focus(function(){
    var v = (this).val();
    $(this).val( v === this.defaultValue ? '' : v);
  .blur(function(){
    var v = (this).val();
    (this).val(v.match(/^\s+$|^$/)?
      this.defaultValue : v);
  });
</script></body></html>
```

http://jsbin.com/irico/edit#html

- Core
- Selectors
- Attributes
- Traversing
- Manipulation
- CSS
- Events
- Effects
- Ajax
- Utilities

```
add()
                        eq()
children()
                        filter()
closest()
                        is()
contents()
                        map()
find()
                        not()
next()
                        slice()
nextAll()
offsetParent()
parent()
parents()
prev()
prevAll()
siblings()
andSelf()
end()
```

- Core
- Selectors
- Attributes
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```
add()
                        eq()
children()
                        filter()
closest()
                        is()
contents()
                        map()
find()
                        not()
next()
                        slice()
nextAll()
offsetParent()
parent()
parents()
prev()
prevAll()
siblings()
andSelf()
end()
```

- Core
- Selectors
- Attributes
- Traversing
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```
<!DOCTYPE html>
<html>
<body>
Make me bold!
<script src="http://ajax.googleapis.com/ajax/</pre>
libs/jquery/1.3.2/jquery.min.js" ></script>
<script>
$('p')
     .contents()
     .wrap('<strong></strong>');
</script>
</body>
</html>
```

http://jsbin.com/ituza/edit#html

- Core
- Selectors
- Attributes
- Traversing
- Manipulation
- CSS
- Events
- Effects
- Ajax
- Utilities

```
html()
                      replaceWith()
text()
                      replaceAll()
append()
                      empty()
appendTo()
                      remove()
prepend()
prependTo()
                      clone()
after()
before()
insert()
insertAfter()
insertBefore
warp()
wrapAll()
wrapInner()
```

- Core
- Selectors
- Attributes
- Traversing
- Manipulation
- CSS
- Events
- Effects
- Ajax
- Utilities

```
html()
                      replaceWith()
text()
                      replaceAll()
append()
                      empty()
appendTo()
                      remove()
prepend()
prependTo()
                      clone()
after()
before()
insert()
insertAfter()
insertBefore
warp()
wrapAll()
wrapInner()
```

- Core
- Selectors
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- Utilities

```
<!DOCTYPE html>
<html>
<body>
jQuery
<script src="jquery.js"></script>
<script>
alert($('p').text());
</script>
</body>
</html>
```

- Core
- Selectors
- Attributes
- Traversing
- Manipulation
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- Events
- Effects
- Ajax
- Utilities

```
css()
offset()
offsetParent()
position()
scrollTop()
scrollLeft()
height()
width()
innerHeight()
innerWidth()
outerHeight()
outerWidth()
```

- Core
- Selectors
- Attributes
- Traversing
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- Events
- Effects
- Ajax
- Utilities

```
css()
offset()
offsetParent()
position()
scrollTop()
scrollLeft()
height()
width()
innerHeight()
innerWidth()
outerHeight()
outerWidth()
```

- Core
- Selectors
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```
<!DOCTYPE html>
<html>
<head>
<style>div{background-color:#ccc; width:100px;
margin:0 20px; float:left;}</style>
</head>
<body>
<div></div>
<div></div>
<div></div>
<script src="jquery.js" ></script>
<script>
$('div')
     .height($(document).height());
</script>
</body>
</html>
```

- Core
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```
ready()
                              blur()
                              change()
bind()
                              click()
                              dbclick()
one()
trigger()
                              error()
triggerHandler()
                              focus()
                              keydown()
unbind()
                              keypress()
live()
                              keyup()
die()
                              mousedown()
                              mousenter()
                              mouseleave()
hover()
toggle()
                              mouseout()
                              mouseup()
                              resize()
                              scroll()
                              select()
                              submit()
                              unload()
```

- Core
- Selectors
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```
ready()
                              blur()
                              change()
bind()
                              click()
                              dbclick()
one()
trigger()
                              error()
triggerHandler()
                              focus()
                              keydown()
unbind()
                              keypress()
live()
                              keyup()
die()
                              mousedown()
                              mousenter()
                              mouseleave()
hover()
toggle()
                              mouseout()
                              mouseup()
                              resize()
                              scroll()
                              select()
                              submit()
                              unload()
```

- Core
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```
<!DOCTYPE html>
<html>
<body>
click me
click me
<script src="jquery.js"></script>
<script>
$("p").bind("click", function(){
      $(this).after("click me");
});
</script>
</body>
</html>
                            http://jsbin.com/ehuki/edit#html
```

- Core
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- Utilities

```
<!DOCTYPE html>
<html>
<body>
click me
click me
<script src="jquery.js"></script>
<script>
$("p").live("click", function(){
      $(this).after("click me");
});
</script>
</body>
</html>
                           http://jsbin.com/epeha/edit#html
```

- Core
- Selectors
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```
show()
hide()
toggle()
slideDown()
slideUp()
slideToggle()
fadeIn()
fadeOut()
fadeTo()
animate()
stop()
```

- Core
- Selectors
- Attributes
- Traversing
- Manipulation
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- Events
- Effects
- Ajax
- Utilities

```
show()
hide()
toggle()
slideDown()
slideUp()
slideToggle()
fadeIn()
fadeOut()
fadeTo()
animate()
stop()
```

- Core
- Selectors
- Attributes
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```
<!DOCTYPE html><html><head>
<style>
div{background-color:#bca;width:100px;border:1px
solid green;}
</style>
</head>
<body>
<div id="block">Hello!</div>
<script src="http://ajax.googleapis.com/ajax/</pre>
libs/jquery/1.3.2/jquery.min.js" ></script>
<script>
$("#block").animate({
     width: '70%',
     opacity: 0.4,
     marginLeft: '0.6in',
     fontSize: '3em',
     borderWidth: '10px'
}, 1500);
</script></body></html>
                                 http://jsbin.com/evage/edit#html
```

- Core
- Selectors
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```
jQuery.ajax()
jQuery.get()
jQuery.getJSON()
jQuery.getScript()
jQuery.post()
load()
ajaxCompete()
ajaxError()
ajaxSend()
ajaxStart()
ajaxStop()
ajaxSuccess()
```

```
jQuery.ajaxSetup()
serialize()
serializeArray()
```

- Core
- Selectors
- Attributes
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- Utilities

```
jQuery.ajax()
jQuery.get()
jQuery.getJSON()
jQuery,getScript()
jQuery.post()
load()
ajaxCompete()
ajaxError()
ajaxSend()
ajaxStart()
ajaxStop()
ajaxSuccess()
```

```
jQuery.ajaxSetup()
serialize()
serializeArray()
```

- Core
- Selectors
- Attributes
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- Effects
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- Utilities

```
<!DOCTYPE html><html><body>
<script src="http://ajax.googleapis.com/ajax/libs/jquery/</pre>
1.3.2/jquery.min.js" ></script>
<script>
var url = 'http://api.flickr.com/services/feeds/
photos public.gne?
tags=jquery&tagmode=all&format=json&jsoncallback=?';
$.getJSON(url, function(data){
  $.each(data.items, function(i,item){
    $("<img/>")
      .attr("src", item.media.m).appendTo("body");
    if ( i == 30 ) return false;
  });
});
</script> </body></html>
```

http://jsbin.com/erase/edit#html

- Core
- Selectors
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```
$.trim()
$.support
$.boxModel
                              $.param()
$.each(),
$.extend(),
$.grep(),
$.makeArray(),
$.map(),
$.inArray(),
$.merge(),
$.unique()
$.isArray(),
$, is Function()
```

- Core
- Selectors
- Attributes
- Traversing
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- Utilities

```
$.trim()
$.support
$.boxModel
                              $.param()
$.each(),
$.extend(),
$.grep(),
$.makeArray(),
$.map(),
$.inArray(),
$.merge(),
$.unique()
$.isArray(),
$, is Function()
```

- Core
- Selectors
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```
<!DOCTYPE html>
<html>
<body>
<script src="jquery.js"></script>
<script>
alert($(document).jquery);
</script>
</body>
</html>
```

```
<!DOCTYPE html>
<html>
<body>
<script src="jquery.js"></script>
<script>
alert($(document).jquery);
(function($){
    alert($().jquery);
})(jQuery);
</script>
</body>
</html>
```

Plugins!

So, what is a plugin?

A plugin is nothing more than a custom jQuery method created to extend the functionality of the jQuery object

```
$('ul').myPlugin()
```

Why Create a plugin?

You want to "find something", and "do something" but the "do something" is not available in jQuery.

Roll your own "do something" with a plugin!

http://jsbin.com/eheku/edit

Step 1. create a private scope for \$ alias

```
<!DOCTYPE html><html><body>
<script src="http://ajax.googleapis.com/ajax/libs/jquery/1.3.2/
jquery.min.js"></script>
<script>
(function($){
})(jQuery);
</script></body></html>
```

Step 2. attach plugin to fn alias (aka prototype)

```
<!DOCTYPE html><html><body>
<script src="http://ajax.googleapis.com/ajax/libs/jquery/1.3.2/
jquery.min.js"></script>
<script>
(function($){
    $.fn.loveNotHate = function(){
    $(this).text($(this).text().replace(/hate/g,'love'));
    };
})(jQuery);
</script></body></html>
```

Step 2. attach plugin to fn alias (aka prototype)

```
<!DOCTYPE html><html><body>
I hate jQuery!
<script src="http://ajax.googleapis.com/ajax/libs/jquery/1.3.2/
jquery.min.js"></script>
<script>
(function($){
    $.fn.loveNotHate = function(){
    $(this).text($(this).text().replace(/hate/g,'love'));
    };
})(jQuery);
$('p').loveNotHate();
</script></body></html>
```

Step 3. add implicit iteration

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```
<!DOCTYPE html><html><body>
I hate jQuery!
I mean really hate jQuery!
<script src="http://ajax.googleapis.com/ajax/libs/jquery/1.3.2/</pre>
jquery.min.js"></script>
<script>
(function($){
   $.fn.loveNotHate = function(){
       this.each(function(){
           $(this).text($(this).text().replace(/hate/g,'love'));
       });
   };
})(jQuery);
$('p').loveNotHate();
</script></body></html>
```

Step 4. enable chaining

```
<!DOCTYPE html><html><body>
I hate jQuery!
I mean really hate jQuery!
<script src="http://ajax.googleapis.com/ajax/libs/jquery/1.3.2/</pre>
jquery.min.js"></script>
<script>
(function($){
   $.fn.loveNotHate = function(){
       return this.each(function(){
           $(this).text($(this).text().replace(/hate/g,'love'));
       });
   };
})(jQuery);
$('p').loveNotHate();
</script></body></html>
```

Step 4. enable chaining

```
<!DOCTYPE html><html><body>
I hate jQuery!
I mean really hate jQuery!
<script src="http://ajax.googleapis.com/ajax/libs/jquery/1.3.2/</pre>
jquery.min.js"></script>
<script>
(function($){
   $.fn.loveNotHate = function(){
       return this.each(function(){
           $(this).text($(this).text().replace(/hate/g,'love'));
       });
   };
})(jQuery);
$('p').loveNotHate().hide();
</script></body></html>
```

Step 5. add default options

```
<!DOCTYPE html><html><body>
I hate jQuery!
I mean really hate jQuery!
<script src="http://ajax.googleapis.com/ajax/libs/jquery/1.3.2/</pre>
jquery.min.js"></script>
<script>
(function($){
   $.fn.loveNotHate = function(){
       return this.each(function(){
           $(this).text($(this).text().replace(/hate/g,
           $.fn.loveNotHate.defaultOptions.text));
       });
   };
   $.fn.loveNotHate.defaultOptions = {text:'love'};
})(jQuery);
$('p').loveNotHate();
</script></body></html>
```

```
<!DOCTYPE html><html><body>
I hate jQuery!
I mean really hate jQuery!
<script src="http://ajax.googleapis.com/ajax/libs/jquery/1.3.2/</pre>
jquery.min.js"></script>
<script>
(function($){
   $.fn.loveNotHate = function(){
       return this.each(function(){
           $(this).text($(this).text().replace(/hate/g,
           $.fn.loveNotHate.defaultOptions.text));
       });
   };
   $.fn.loveNotHate.defaultOptions = {text:'love'};
})(jQuery);
$('p').loveNotHate({text:'love-love'});
</script></body></html>
```

```
<!DOCTYPE html><html><body>
I hate jQuery!
I mean really hate jQuery!
<script src="http://ajax.googleapis.com/ajax/libs/jquery/1.3.2/</pre>
jquery.min.js"></script>
<script>
(function($){
   $.fn.loveNotHate = function(customOptions){
       return this.each(function(){
           $(this).text($(this).text().replace(/hate/g,
           $.fn.loveNotHate.defaultOptions.text));
       });
   };
   $.fn.loveNotHate.defaultOptions = {text:'love'};
})(jQuery);
$('p').loveNotHate({text:'love-love'});
</script></body></html>
```

```
<!DOCTYPE html><html><body>
I hate jQuery!
I mean really hate jQuery!
<script src="http://ajax.googleapis.com/ajax/libs/jquery/1.3.2/</pre>
jquery.min.js"></script>
<script>
(function($){
   $.fn.loveNotHate = function(customOptions){
       var options = $.extend({},$.fn.loveNotHate.defaultOptions,
       customOptions);
       return this.each(function(){
           $(this).text($(this).text().replace(/hate/g,
           $.fn.loveNotHate.defaultOptions.text));
       });
   };
   $.fn.loveNotHate.defaultOptions = {text:'love'};
})(jQuery);
$('p').loveNotHate({text:'love-love'});
</script></body></html>
```

```
<!DOCTYPE html><html><body>
I hate jQuery!
I mean really hate jQuery!
<script src="http://ajax.googleapis.com/ajax/libs/jquery/1.3.2/</pre>
jquery.min.js"></script>
<script>
(function($){
   $.fn.loveNotHate = function(customOptions){
       var options = $.extend({},$.fn.loveNotHate.defaultOptions,
       customOptions);
       return this.each(function(){
           $(this).text($(this).text().replace(/hate/
           g, options.text));
       });
   };
   $.fn.loveNotHate.defaultOptions = {text:'love'};
})(jQuery);
$('p').loveNotHate({text:'love-love'});
</script></body></html>
```



jQuery News

- jQuery.org & Foundation (Software Freedom Law Center)
- Tax-deductible donations
- Four conferences next year (Boston, San Francisco, London, and online)
- Infrastructure Upgrade (MediaTemple Sponsorship)
- New Plugin site (http://plugins.jquery.com)
- jQuery Forum (moving away from Google Groups)





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