jQuery <3 Developers

Hi, I'm Remy.

Enjoys: JavaScript & dressing (sort of) like Mr T.

Unobtrusive

JavaScript

Worst example

```
<a href="javascript:window.open(
    'help.html')">Help</a>
```

Just as bad

```
<a href="#" onclick="window.open(
   'help.html')">Help</a>
```

"Why? Doesn't everyone have JavaScript turned on?"

No!

NoScript Firefox plugin

No!

Corporate policies

Network script stripping proxies

Google
Google

Unobtrusive way

```
<a href="help.html">Help</a>
```

DOM scripting way

Graceful Degradation

????? What's the difference ????

Progressive Enhancement

GD vs. PE

GD vs. PE

- Old way
- Top down
- All singing all dancing first
- Add fail cases
- Run out of time, you're caught out

GD vs. PE

- Old way
- Top down
- All singing all dancing first
- Add fail cases
- Run out of time, you're caught out

- New way
- Bottom up
- Layered development
- No environment assumptions
- **Works by default**

"Find something, do something to it"

Why jQuery?

Why a DOM Library?

- Cross browser quirks handled for you
- DOM scripting made easy

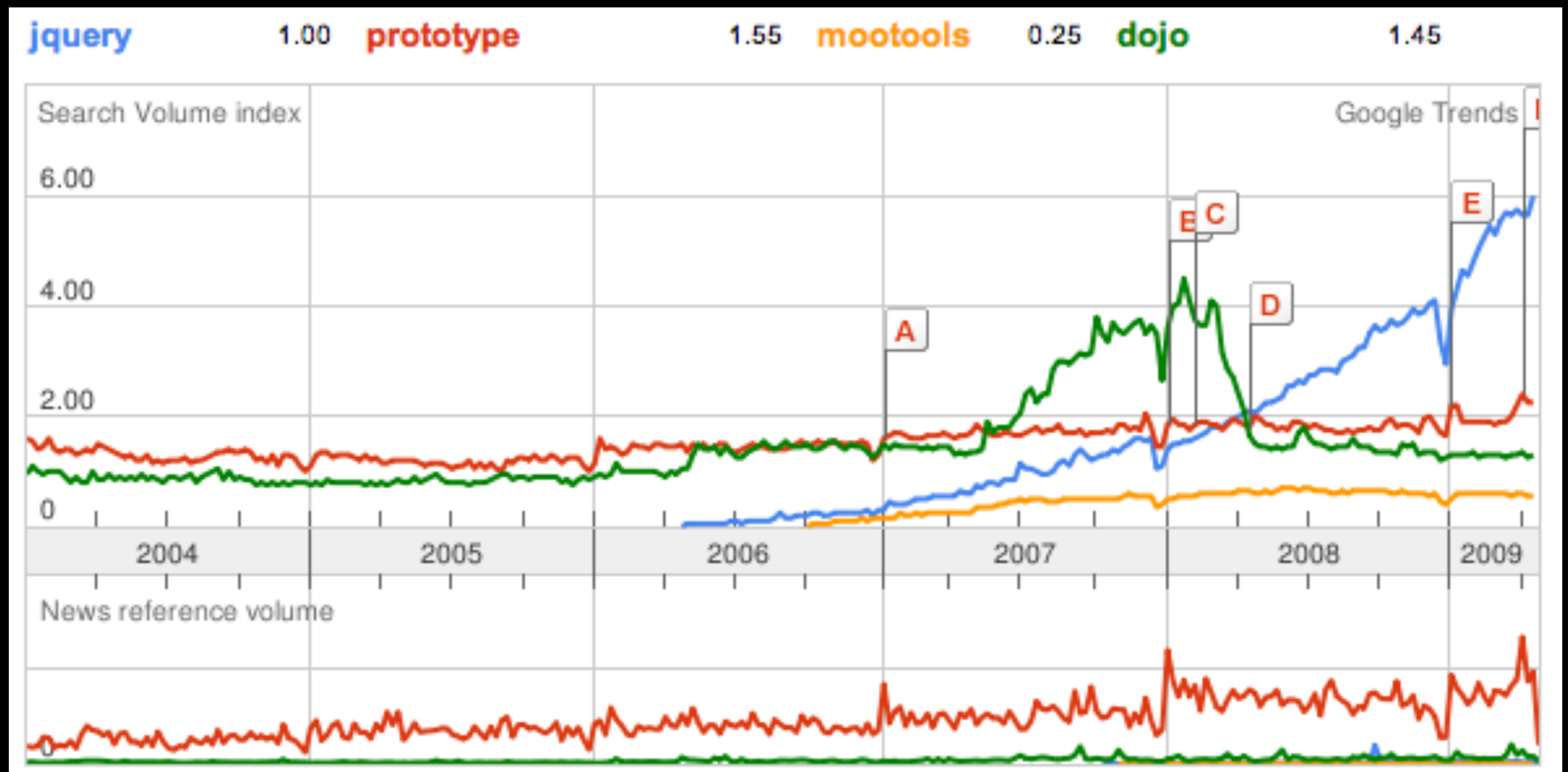
Less donkey work
More problem solving

Less donkey work

More problem solving

What's so special about *jQuery?*

It's pretty popular...



Community!

Community

APIs

docs.jquery.com

api.jquery.com

visualjquery.com

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Blogs, tutorials, screencasts,
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Community

IRC channel
freenode.net/#jquery

jQuery

What's in the box?

What's in the box?

New in 1.3

Sizzlejs.com

The *bling* function

$ == jQuery

```
$('div')
```

==

```
jQuery('div')
```

$

- Selectors - CSS1, CSS2 and some CSS3

$

- Selectors - CSS1, CSS2 and some CSS3
- DOM elements

$

- Selectors - CSS1, CSS2 and some CSS3
- DOM elements
- Raw HTML

$

- Selectors - CSS1, CSS2 and some CSS3
- DOM elements
- Raw HTML
- "Ready" functions

```
$('ul')
```

```
$('ul')
```

```
$(document.createElement('ul'))
```

```
$('ul')

$(document.createElement('ul'))

$('<ul />') or $('<ul></ul>')
```

```
jQuery(document).ready(fn)

$(document).ready(fn)

$(fn)
```

```
jQuery(function ($) {
   // private instance of $
})
```

```
jQuery(document).ready(fn)

$(document).ready(fn)

$(fn)
```

```
jQuery(function ($) {
  // private instance of $
})
```

```
jQuery(document).ready(fn)

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$(fn)
```

```
jQuery(function ($) {
   // private instance of $
})
```

```
jQuery(document).ready(fn)

$(document).ready(fn)

$(fn)
```

```
jQuery(function ($) {
  // private instance of $
})
```

Custom Selectors

- :visible, :hidden
- :first, :last
- :even, :odd
- :animated
- :has

$('li a')

```
<ul>
   <li>1st</li>
   <li>2nd</li>
   <li><a href="#third">3rd</a></li>
   <li>4th</li>
</ul>
```

$('li a')

```
<ul>
   <li>1st</li>
   <li>2nd</li>
   <li><a href="#third">3rd</a></li>
   <li>4th</li>
</ul>
```

$('li:has(a)')

```
<ul>
   <li>1st</li>
   <li>2nd</li>
   <li><a href="#third">3rd</a></li>
   <li>4th</li>
</ul>
```

$('li:has(a)')

```
<ul>
  <li>1st</li>
  <li>2nd</li>
  <li><a href="#third">3rd</a></li>
  <li>4th</li>
</ul>
```

New in 1.3

Selector Attributes

- selector, e.g. $('li').find('a').selector == 'li a'
- context

Extending Selectors

```
$.extend($.expr[':'], {
   visible : function(elem){
     return elem.offsetWidth > 0
          || elem.offsetHeight > 0;
   }
});
```

Extending Selectors

```
$.extend($.expr[':'], {
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          || elem.offsetHeight > 0;
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});
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```

Extending Selectors

```
$.extend($.expr[':'], {
  visible : function(elem){
    return elem.offsetWidth > 0
        || elem.offsetHeight > 0;
  }
});
```

Behind the Scenes

- getElementById
- getElementsByTagName
- querySelectorAll
- getElementsByClassName

$ returns a new object

...that also has array like properties.

```
>>> $('li')
[li, li]

>>> $('li')[0]
<li>

>>> $('li').length
2
```

Does Selector Exist?

```
if ( $(expr).length ) {
    // do stuff
}
```

Plugin Architecture

```
$.fn.myPlugin = function () {
  return this.each(function () {
    // do stuff
  });
}
```

Plugin Architecture

```
$.fn.myPlugin = function () {
  return this.each(function () {
    // do stuff
  });
}
```

Plugin Architecture

```
$.fn.myPlugin = function () {
  return this.each(function () {
    // do stuff
  });
}
```

Plugin Architecture

```
$.fn.myPlugin = function () {
  return this.each(function () {
    // do stuff
  });
}
```

Chaining

Common

```
$('a').addClass('ready').click(fn);
```

Common

```
$('a').addClass('ready').click(fn);
```

Common

```
$('a').addClass('ready').click(fn);
```

Common

```
$('a').addClass('ready').click(fn);
```

One line!

```
$img = $('<img />')
    .addClass('loading')
    .load(function () {
      $img.removeClass('loading');
    })
    .error(function () {
      $img.addClass('error')
        .attr('src', 'empty.gif');
    })
    .attr('src', 'somebigimage.jpg')
    .appendTo('body');
```

One line!

```
$img = $('<img />')
    .addClass('loading')
    .load(function () {
      $img.removeClass('loading');
    })
    .error(function () {
      $img.addClass('error')
        .attr('src', 'empty.gif');
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    })
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      $img.addClass('error')
        .attr('src', 'empty.gif');
    })
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    .appendTo('body');
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One line!

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    })
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      $img.addClass('error')
          .attr('src', 'empty.gif');
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    .appendTo('body');
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One line!

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One line!

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      $img.addClass('error')
        .attr('src', 'empty.gif');
    })
    .attr('src', 'somebigimage.jpg')
    .appendTo('body');
```
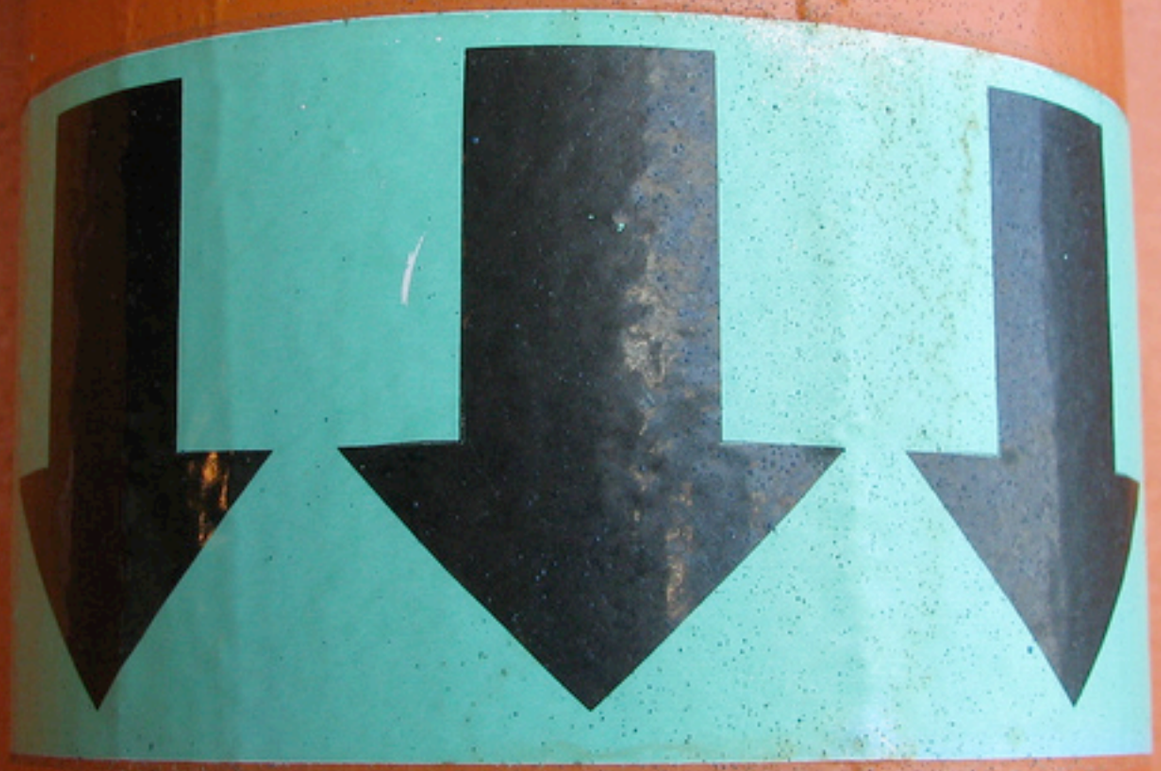

DOM Navigation



Finding

```
$('li a')

$('li').find('a')

$('a').next()

$('a').parent()

$('a').parents('ul')
```

$('li a')

```
<ul>
  <li>
    <a href="#first">1st</a>
    <img src="one.gif">
  </li>
  <li>
    <a href="#second">2nd</a>
    <img src="two.gif">
  </li>
</ul>
```

$('li a')

```
<ul>
  <li>
    <a href="#first">1st</a>
    <img src="one.gif">
  </li>
  <li>
    <a href="#second">2nd</a>
    <img src="two.gif">
  </li>
</ul>
```

$('li a').next()

```
<ul>
  <li>
    <a href="#first">1st</a>
    <img src="one.gif">
  </li>
  <li>
    <a href="#second">2nd</a>
    <img src="two.gif">
  </li>
</ul>
```

$('li a').next()

```
<ul>
  <li>
    <a href="#first">1st</a>
    <img src="one.gif">
  </li>
  <li>
    <a href="#second">2nd</a>
    <img src="two.gif">
  </li>
</ul>
```

$('li a').next().parent()

```
<ul>
  <li>
    <a href="#first">1st</a>
    <img src="one.gif">
  </li>
  <li>
    <a href="#second">2nd</a>
    <img src="two.gif">
  </li>
</ul>
```

$('li a').next().parent()

```
<ul>
  <li>
    <a href="#first">1st</a>
    <img src="one.gif">
  </li>
  <li>
    <a href="#second">2nd</a>
    <img src="two.gif">
  </li>
</ul>
```

$('li a').parents('ul')

```
<ul>
  <li>
    <a href="#first">1st</a>
    <img src="one.gif">
  </li>
  <li>
    <a href="#second">2nd</a>
    <img src="two.gif">
  </li>
</ul>
```

$('li a').parents('ul')

```
<ul>
  <li>
    <a href="#first">1st</a>
    <img src="one.gif">
  </li>
  <li>
    <a href="#second">2nd</a>
    <img src="two.gif">
  </li>
</ul>
```

New in 1.3

.closest('expr')

```
<ul>
  <li>
    <a href="#second">2nd</a>
    <img src="two.gif">
  </li>
</ul>
```

New in 1.3

$('img').closest('ul')

```
<ul>
  <li>
    <a href="#second">2nd</a>
    <img src="two.gif">
  </li>
</ul>
```

New in 1.3

$('img').closest('ul')

```
<ul>
  <li>
    <a href="#second">2nd</a>
    <img src="two.gif">
  </li>
</ul>
```

New in 1.3

$('img').closest('ul')

```
<ul>
  <li>
    <a href="#second">2nd</a>
    <img src="two.gif">
  </li>
</ul>
```

Filtering

```
$('li').filter(':first')

$('a').not(':has(span)')

$('a').slice(1, 1)
```

$('li')

```
<li>
  <a href="#first">1st</a>
  <img src="one.gif">
</li>
<li>
  <a href="#second">2nd</a>
  <img src="two.gif">
</li>
<li>
  <a href="#third">3rd</a>
</li>
```

$('li')

```
<li>
   <a href="#first">1st</a>
   <img src="one.gif">
</li>
<li>
   <a href="#second">2nd</a>
   <img src="two.gif">
</li>
<li>
   <a href="#third">3rd</a>
</li>
```

$('li').filter(':has(img)')

```
<li>
   <a href="#first">1st</a>
   <img src="one.gif">
</li>
<li>
   <a href="#second">2nd</a>
   <img src="two.gif">
</li>
<li>
   <a href="#third">3rd</a>
</li>
```

$('li').filter(':has(img)')

```
<li>
  <a href="#first">1st</a>
  <img src="one.gif">
</li>
<li>
  <a href="#second">2nd</a>
  <img src="two.gif">
</li>
<li>
  <a href="#third">3rd</a>
</li>
```

$('li').not(':first')

```
<li>
   <a href="#first">1st</a>
   <img src="one.gif">
</li>
<li>
   <a href="#second">2nd</a>
   <img src="two.gif">
</li>
<li>
   <a href="#third">3rd</a>
</li>
```

$('li').not(':first')

```
<li>
  <a href="#first">1st</a>
  <img src="one.gif">
</li>
<li>
  <a href="#second">2nd</a>
  <img src="two.gif">
</li>
<li>
  <a href="#third">3rd</a>
</li>
```

$('li').slice(0, 2)

```
<li>
    <a href="#first">1st</a>
    <img src="one.gif">
</li>
<li>
    <a href="#second">2nd</a>
    <img src="two.gif">
</li>
<li>
    <a href="#third">3rd</a>
</li>
```

$('li').slice(0, 2)

```
<li>
  <a href="#first">1st</a>
  <img src="one.gif">
</li>
<li>
  <a href="#second">2nd</a>
  <img src="two.gif">
</li>
<li>
  <a href="#third">3rd</a>
</li>
```

Manipulation

- append, appendTo, prepend, prependTo
- after, before, insertAfter, insertBefore
- wrap, wrapAll, wrapInner
- empty, remove
- clone
- html, text

$('li').append('')

```
<li>
  <a href="#first">1st</a>
  <img src="one.gif">
</li>
```

$('li').append('')

```
<li>
  <a href="#first">1st</a>
  <img src="one.gif">
  <span></span>
</li>
```

$('li').prepend('')

```
<li>
  <a href="#first">1st</a>
  <img src="one.gif">
</li>
```

$('li').prepend('')

```
<li>
  <span></span>
  <a href="#first">1st</a>
  <img src="one.gif">
</li>
```

$('#foo').prependTo('li')

```
<li>
  <a href="#first">1st</a>
  <img src="one.gif">
</li>
<img id="foo" src="foo.gif">
```

$('#foo').prependTo('li')

```
<li>
  <img id="foo" src="foo.gif">
  <a href="#first">1st</a>
  <img src="one.gif">
</li>
```

$('ul').wrap(' ')

```
<ul>
  <li><a href="#first">1st</a></li>
</ul>
<ul>
  <li><a href="#second">2nd</a></li>
</ul>
```

$('ul').wrap(' ')

```
<div>
<ul>
  <li><a href="#first">1st</a></li>
</ul>
</div>
<div>
<ul>
  <li><a href="#second">2nd</a></li>
</ul>
</div>
```

$('ul').wrapAll(' ')

```
<div>
<ul>
  <li><a href="#first">1st</a></li>
</ul>
<ul>
  <li><a href="#second">2nd</a></li>
</ul>
</div>
```

$('li').wrapInner('')

```
<ul>
  <li><em><a href="#first">1st</a></
em></li>
</ul>
<ul>
  <li><em><a href="#second">2nd</
a></em></li>
</ul>
```

Style Manipulation

Key/Value Pair

```
// get
$('input').attr('title');

$('a').css('font-weight');

// set
$('input').attr('title', 'Name');

$('a').css('font-weight', 'bold');
```

Changing Multiples

```
$('input').attr({
   'title' : 'Your username',
   'value' : 'Enter your username'
});

$('a').css({
   'font-weight' : 'bold',
   'background-color' : '#c00'
});
```

```
$('a').attr({ class :
'home', href : '/home' });
```

```
<a href="/logout" class="logout">Go</a>
```

```
$('a').attr({ class :
'home', href : '/home' });
```

```
<a href="/home" class="home">Go</a>
```

Dimensions & Position

- width, height
- innerHeight, innerWidth
- outerHeight, outerWidth (pass **`true`** to include margins)
- scrollLeft, scrollTop
- offset, position (includes margin)

Events

red rock
CASINO · RESORT · SPA
THE GREATEST BOWLERS
IN THE WORLD ARE HERE!
SQUIRREL NUT ZIPPERS
LIVE FRI, DEC 14 &
SAT, DEC 15
FREE IN ROCKS LOUNGE
DOORS @ 8PM, SHOW @ 9PM

bind, trigger & unbind

bind, trigger & unbind

...and **`.one(fn)`** (which unbinds on trigger)

```
$('a').bind('click', function () {
   alert('you clicked');
   return false;
}).trigger('click');
```

```
$('a').bind('click', function () {
    alert('you clicked');
    return false;
}).trigger('click');
```

```
$('a').bind('click', function () {
    alert('you clicked');
    return false;
}).trigger('click');
```

```
$('a').bind('click', function () {
    alert('you clicked');
    return false;
}).trigger('click');
```

```
$('a').bind('click', function () {
  alert('you clicked');
  return false;
}).trigger('click');
```

```
$('a').bind('click', function (event, msg) {
  alert('you clicked: ' + msg);
  return false;
}).trigger('click', ['ok']);
```

```
$('a').bind('click', function (event, msg) {
  alert('you clicked: ' + msg);
  return false;
}).trigger('click', ['ok']);
```

```
$('a').bind('click', function (event, msg) {
  alert('you clicked: ' + msg);
  return false;
}).trigger('click', ['ok']);
```

```
$('a').bind('click', function (event, msg) {
  alert('you clicked: ' + msg);
  return false;
}).trigger('click', ['ok']);
```

```
$('a').bind('click', function (event, msg) {
  alert('you clicked: ' + msg);
  return false;
}).trigger('click', ['ok']);
```

Example

http://test.com/sample.html

Google

ink!

http://test.com

you clicked: ok

OK

```
blur
change *
click
dblclick
error
focus
hover
keydown
keypress
keyup
load
mousedown
mousemove
mouseout
mouseover
mouseup
ready
resize
scroll
select
submit
toggle
unload
```

```
triggerHandler(event, data)
```

```
triggerHandler(event, data)
```

Watch out: doesn't chain!

Event object

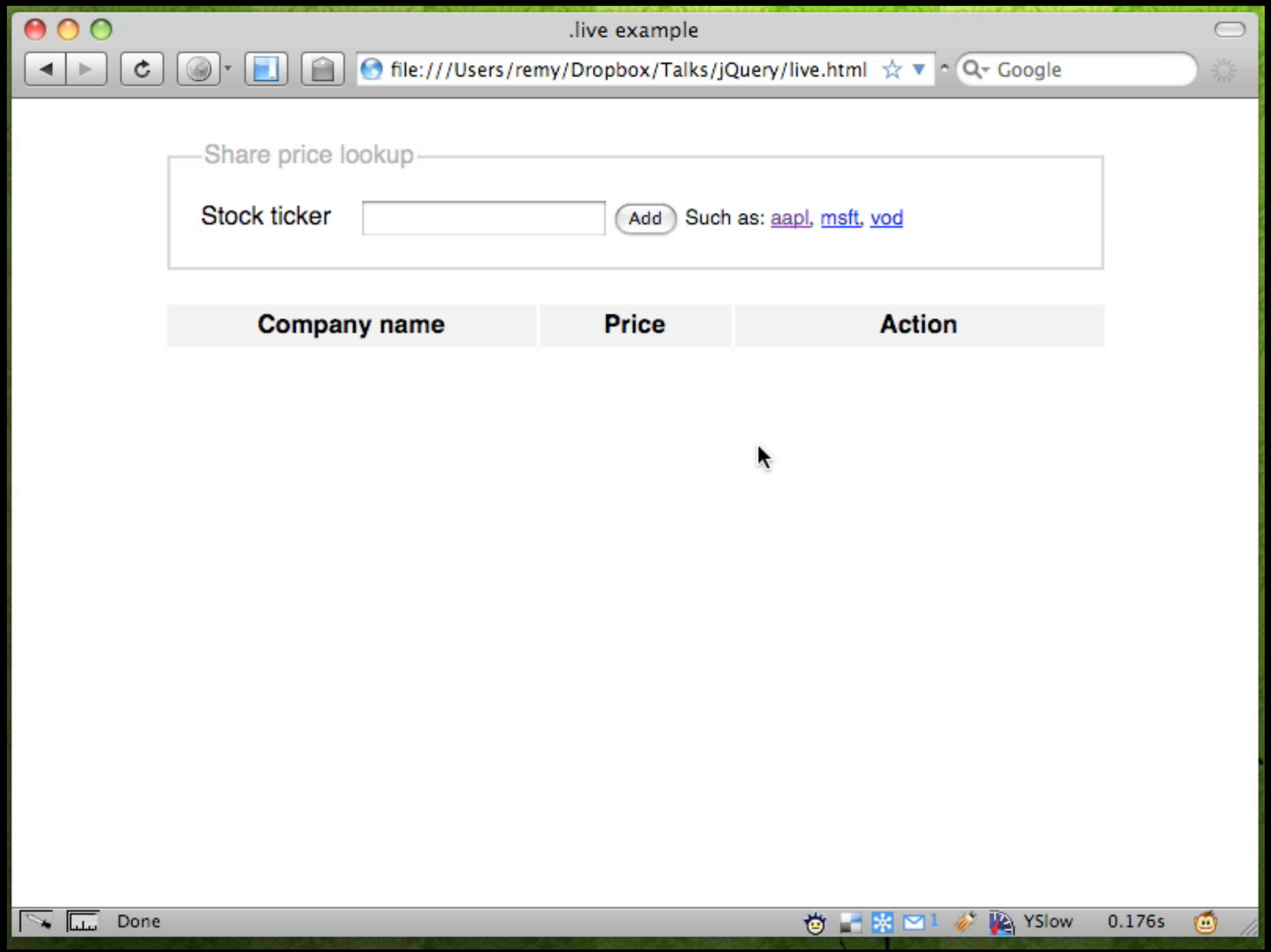
- preventDefault()
- stopPropagation()
- return false (preventDefault + stopPropagation)
- stopImmediatePropagation()

New in 1.3

Live Events

```
$('.remove').live('click',function(){
   $(this).closest('tr').remove();
});
```

http://remysharp.com/demo/live.html



http://remysharp.com/demo/live.html

Live support

- Supported: *click, dblclick, mousedown, mouseup, mousemove, mouseover, mouseout, keydown, keypress, keyup*
- **Not supported: *blur, focus, mouseenter, mouseleave, change, submit***

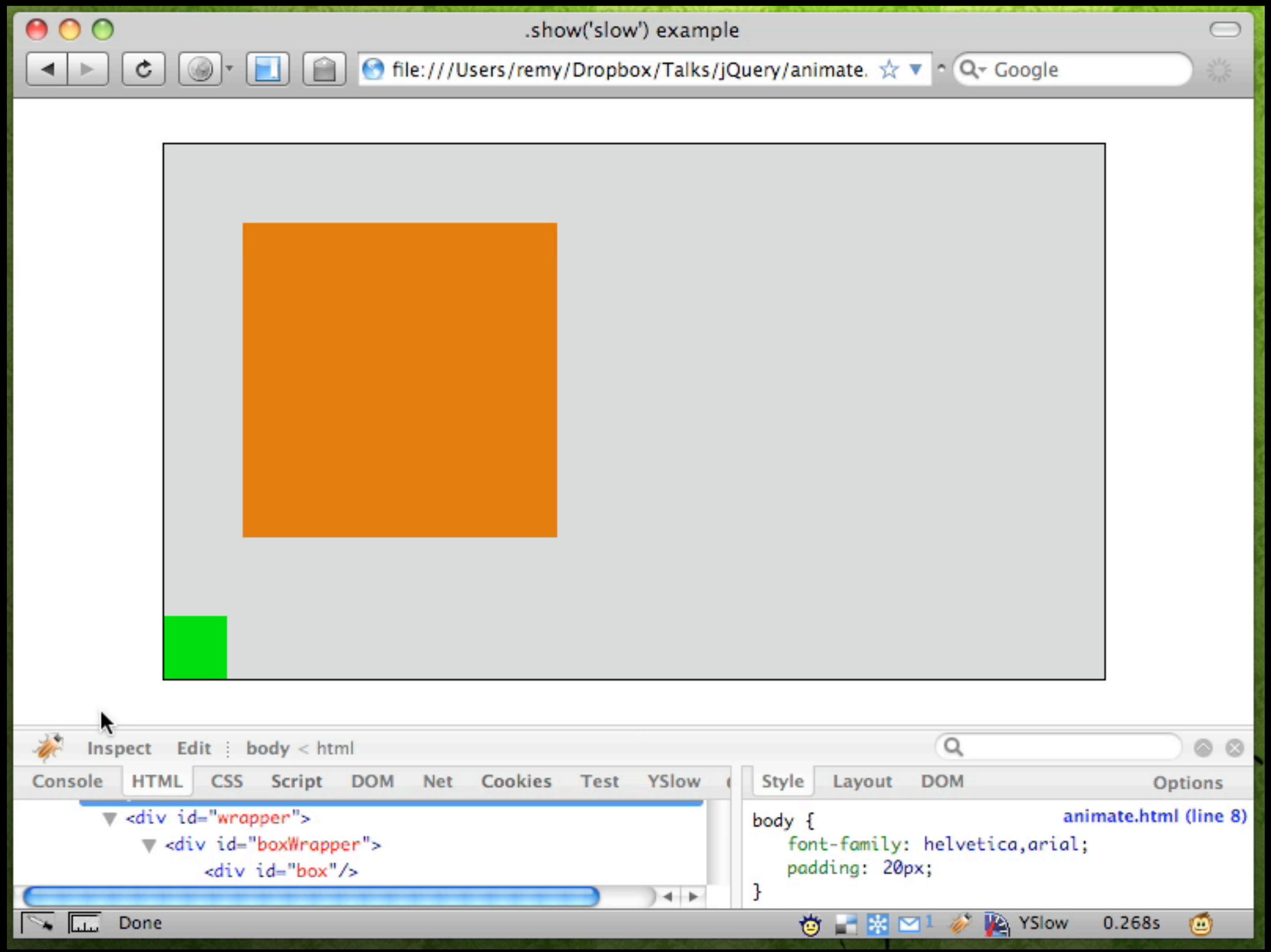
LEARN
MAGIC
TRICKS
IN
2 MINITS

Effects

Built in Effects

- show, hide, toggle
- fadeIn, fadeOut, fadeTo
- slideUp, slideDown, slideToggle
- animate - roll your own!

http://remysharp.com/demo/hide-with-margins.html



http://remysharp.com/demo/hide-with-margins.html

.animate(prop, speed, callback)

```
$('#block').animate({
   'opacity' : 0.5,
   'width' : '-=20px',
   'height' : '-=20px',
   'top' : (winHeight - 168) + 'px'
}, 400, 'easeOutBounce').animate({
   'foo' : 1  // acts as a pause
}, 500).animate({
   'left' : '150%' // fly off screen
}, 500, function () {
   $(this).hide();
});
```

```
$('#block').animate({
    'opacity' : 0.5,
    'width' : '-=20px',
    'height' : '-=20px',
    'top' : (winHeight - 168) + 'px'
}, 400, 'easeOutBounce').animate({
    'foo' : 1  // acts as a pause
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```
$('#block').animate({
   'opacity' : 0.5,
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   'height' : '-=20px',
   'top' : (winHeight - 168) + 'px'
}, 400, 'easeOutBounce').animate({
   'foo' : 1  // acts as a pause
}, 500).animate({
   'left' : '150%' // fly off screen
}, 500, function () {
   $(this).hide();
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$('#block').animate({
   'opacity' : 0.5,
   'width' : '-=20px',
   'height' : '-=20px',
   'top' : (winHeight - 168) + 'px'
}, 400, 'easeOutBounce').animate({
   'foo' : 1  // acts as a pause
}, 500).animate({
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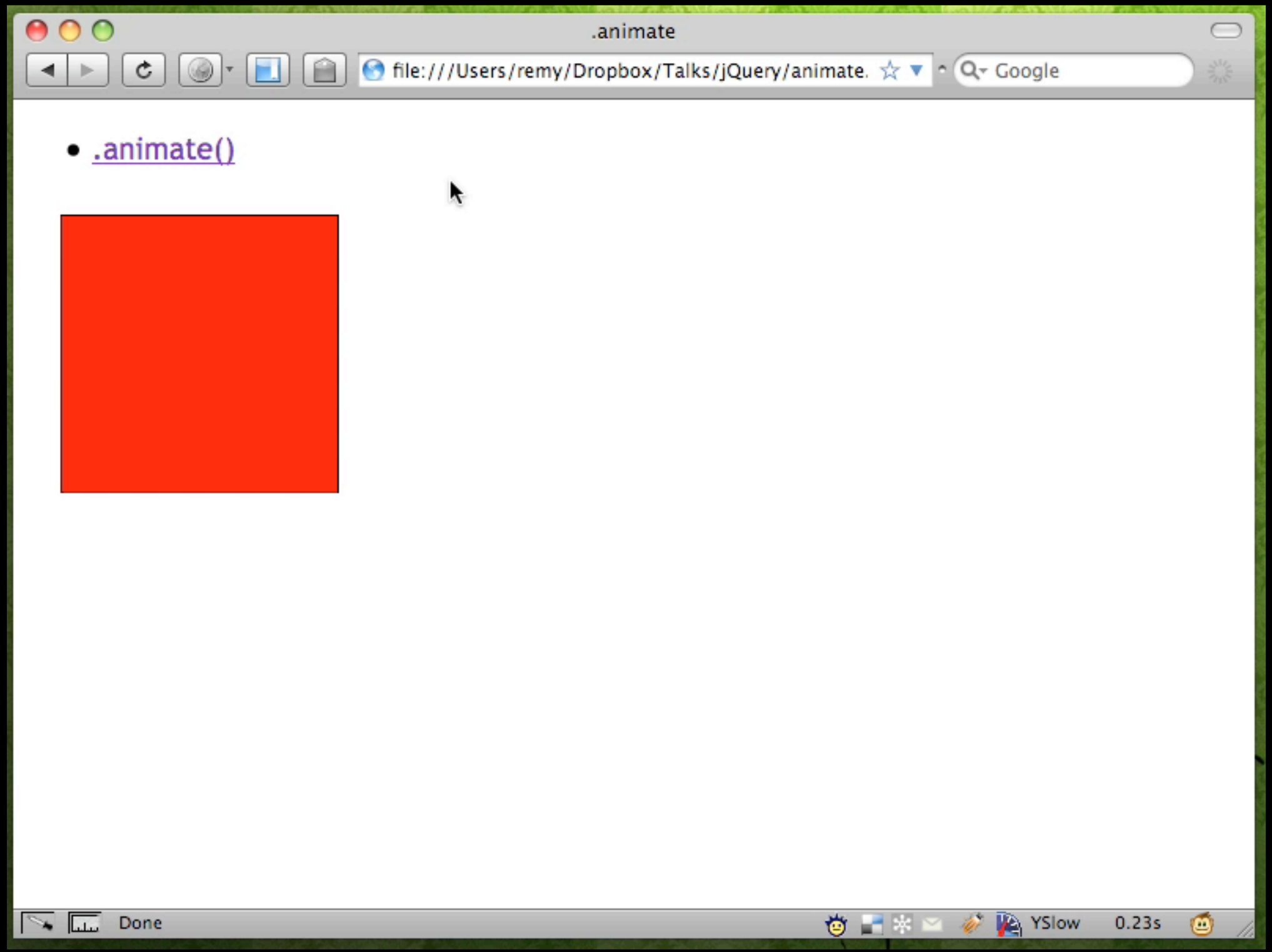
http://remysharp.com/demo/animate.html



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Bespoke Steps

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$('div').queue(function () {
   $(this).removeClass('newcolor');
   // pass back to sequence
   $(this).dequeue();
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New in 1.3

`$.fx.off = true`

Enchantment

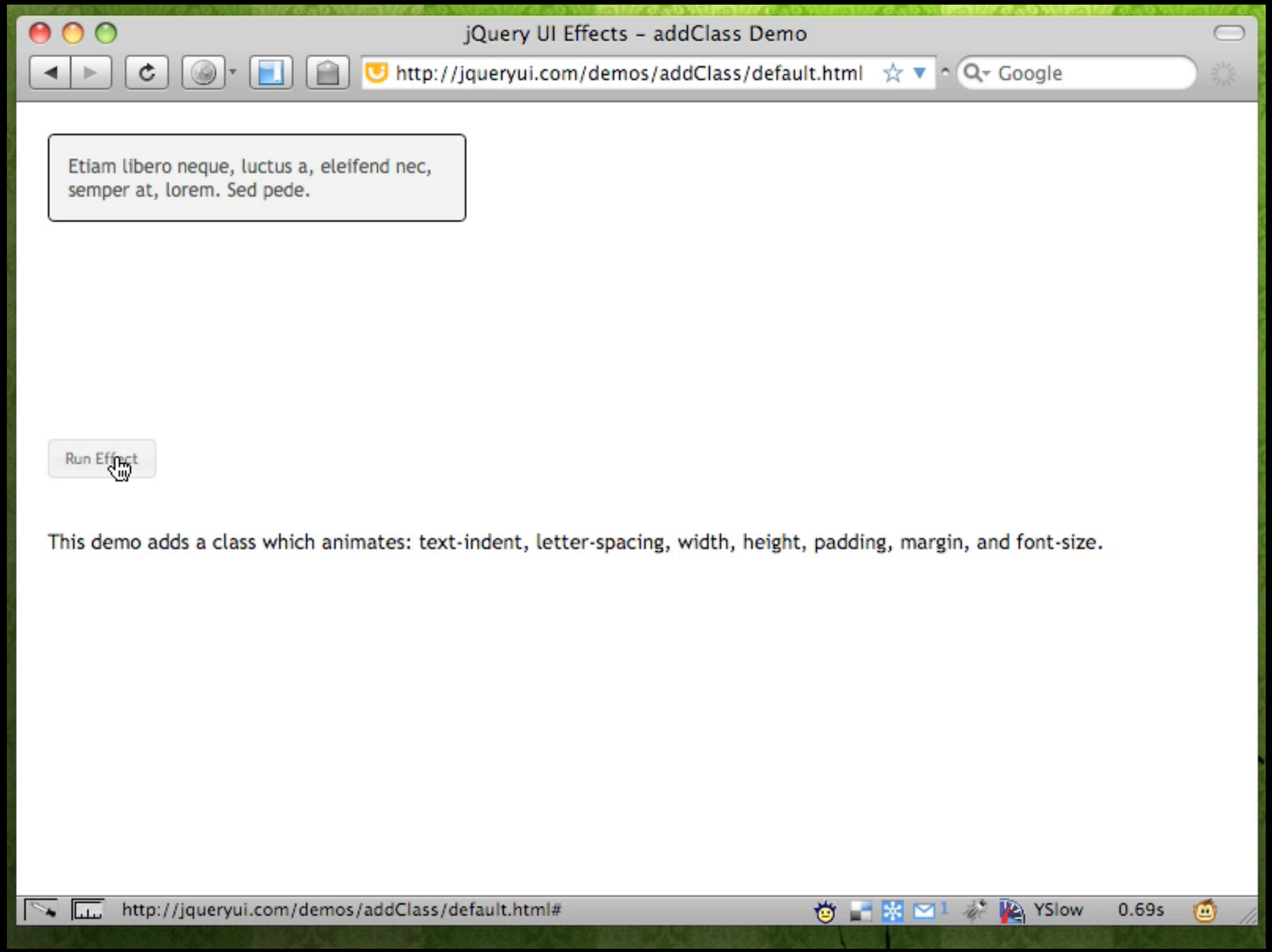
Enchantment

http://jqueryui.com/docs/Effects/Methods

UI Effects Core

- addClass, removeClass, toggleClass
- show, hide, toggle
- animate

http://jqueryui.com/demos/addClass/default.html



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Ajax

Über Easy Ajax

$(expr).load - *squirt into expr*

```
$('#info').load('info.html #links li');
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Ajax Shortcuts

- $.get
- $.post
- $.getScript
- $.getJSON

$.ajax

- Full control
- Global setup available
- Much easier to debug
- http://docs.jquery.com/Ajax/jQuery.ajax#options

```
$.ajax({
  url: 'http://www.twitter.com/
statuses/user_timeline/rem.json?
callback=?',
  dataType: 'jsonp',
  cache: false,
  success: function(data) {
    // this == XMLHttpRequest object
    $('#status').html(data[0].text);
  },
  error: function(xhr, status, e) {
    // debugging enabled
    console.log(arguments);
  }
});
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Server Side Tip!

```
// sent headers include:

X-Requested-With = XMLHttpRequest
```

Utilities

Tests, Iterators & Operations

- $.inArray, $.isFunction, $.isArray,
- $.each, $.extend, $.grep, $.map
- $.merge, $.unique, $.makeArray

Good Guys Come Last

1. Include other library first (that uses $)
2. Then include jQuery, then:

```
$.noConflict();
// or
$j = $.noConflict();
```

Sniffing

Old Way

- $.browser
- $.browser.version

New in 1.3

$.support

New in 1.3

$.support

boxModel
cssFloat
hrefNormalized
htmlSerialize
leadingWhitespace
noCloneEvent
objectAll
opacity
scriptEval
style
tbody

Remy Sharp

@rem
remy@leftlogic.com

http://remysharp.com
http://jqueryfordesigners.com
http://full-frontal.org

Photos by

charliebrewer, manfrys, magw21, abbydonkrafts, nicora, leecullivan, jaako, thetruthabout, artisandhu, sundazed, otterfreak, frf_kmeron, mattlogelin, dandiffendale, mwagner, stanrandom, anniewong, legin, kerotab