

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



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

- | | |
|--|--|
| <ul style="list-style-type: none">● Old way● Top down● All singing all dancing first● Add fail cases● Run out of time, you're caught out | <ul style="list-style-type: none">● New way● Bottom up● Layered development● No environment assumptions● Works by default |
|--|--|

*"Find something,
do something to it"*

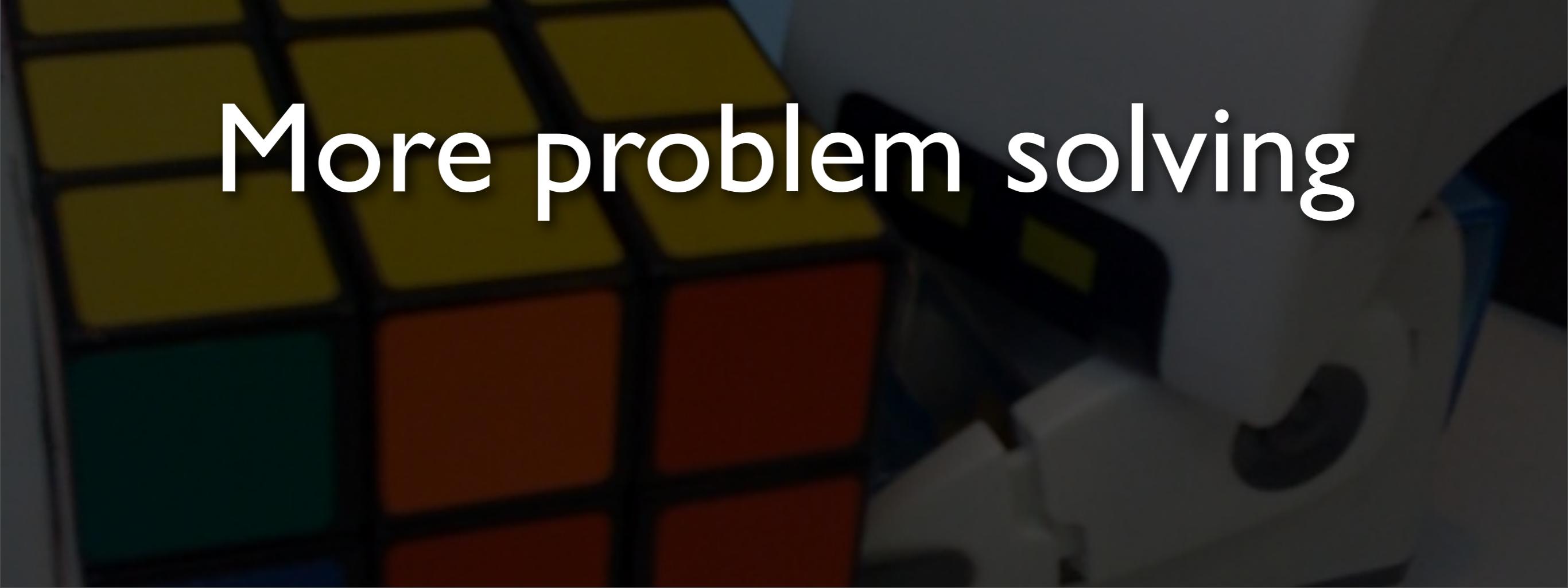
Why jQuery?

Why a DOM Library?

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

A close-up photograph of a brown horse's head and neck, harnessed to a cart. The cart is heavily laden with several large, round, woven baskets. A person's hands are visible on the cart's side. In the background, other people are standing near the cart.

Less donkey work

A dark, semi-transparent rectangular overlay at the bottom of the slide. Inside, there is a blurred image of a stack of books in various colors like yellow, red, and green.

More problem solving

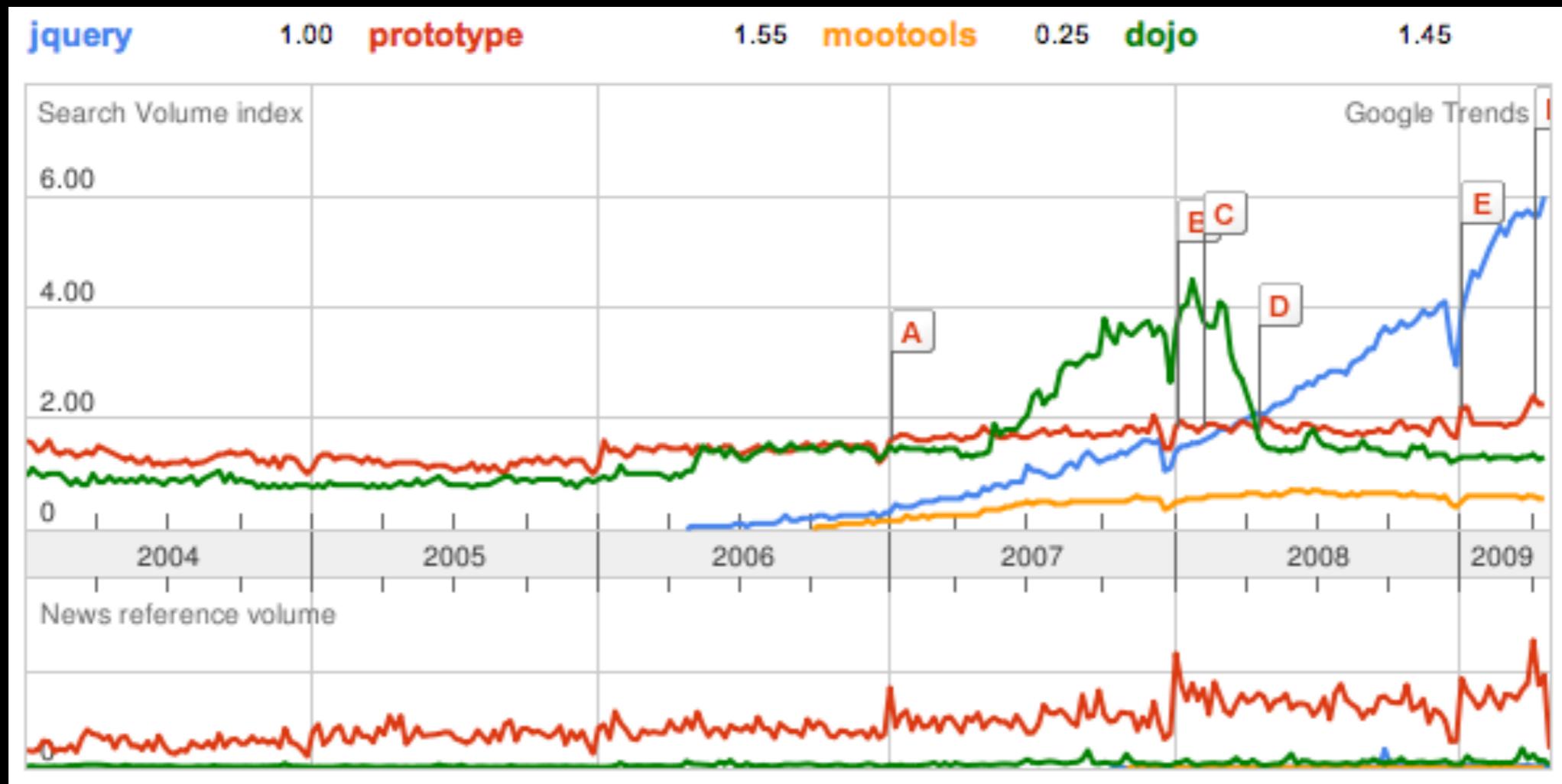
A photograph showing a man wearing a white cap and a blue shirt, working on a boat deck. He is surrounded by large, woven baskets filled with what appears to be coiled rope or similar material. The boat's wooden structure and some equipment are visible in the background.

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

Community

APIs
docs.jquery.com
api.jquery.com
visualjquery.com

Blogs, tutorials, screencasts,
plugins, development sprints

Community

APIs
docs.jquery.com
api.jquery.com
visualjquery.com

Blogs, tutorials, screencasts,
plugins, development sprints

Community

Google Groups
[jquery-en](https://groups.google.com/forum/#!forum/jquery-en)
[jquery-dev](https://groups.google.com/forum/#!forum/jquery-dev)
[jquery-ui-en](https://groups.google.com/forum/#!forum/jquery-ui-en)
[jquery-ui-dev](https://groups.google.com/forum/#!forum/jquery-ui-dev)
[jquery-ally](https://groups.google.com/forum/#!forum/jquery-ally)

APIs
docs.jquery.com
api.jquery.com
visualjquery.com

Twitter
@jquery
@jquerysites
@jqueryui

Blogs, tutorials, screencasts,
plugins, development sprints

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jquery-ui-en
jquery-ui-dev
jquery-ally

Community

IRC channel
freenode.net/#jquery





What's in the box?

- Selector engine: Sizzle
- DOM manipulation
- Events
- Effects
- Ajax
- Utilities

What's in the box?

New in
1.3



The screenshot shows a web browser displaying the Sizzle JavaScript Selector Library website at <http://sizzlejs.com/>. The page features a large orange starburst graphic on the left with the text "New in 1.3". The main content area includes the Sizzle logo (a stylized orange arrow), a brief description of the library, download links, and sections for Features, Selector Features, and Code Features.

Sizzle JavaScript Selector Library

<http://sizzlejs.com/>

Google

 **Sizzle**

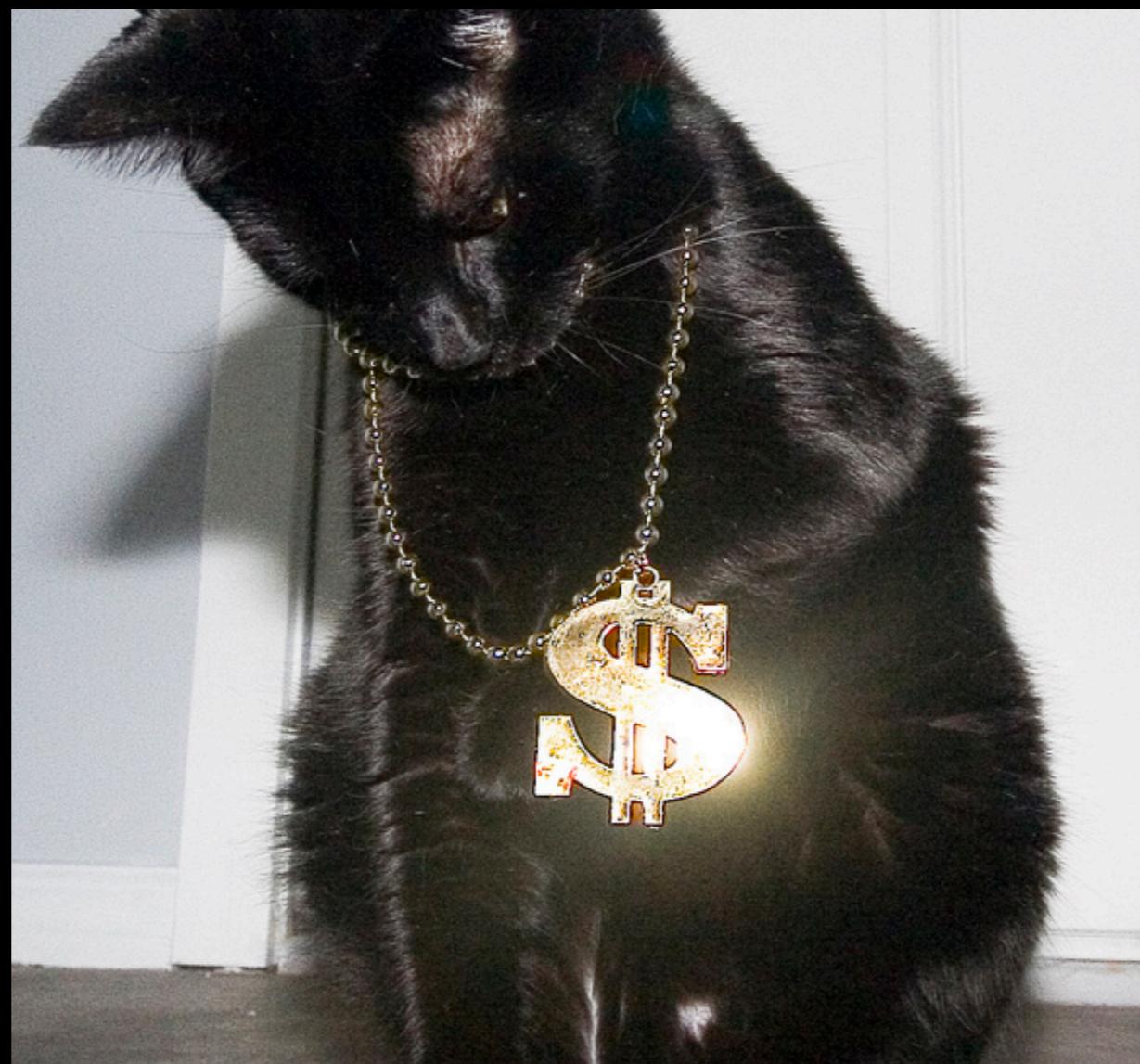
A pure-JavaScript CSS selector engine
designed to be easily dropped in to a host library.

[!\[\]\(bf6ca3dda48c8d534b07471a0a262e87_img.jpg\) Download .zip file](#)

[Documentation](#)
[Github project \(source code\)](#)
[Sizzle discussion group](#)

Features	Selector Features	Code Features
<ul style="list-style-type: none">• Completely standalone (no library dependencies)• Competitive performance for most frequently used selectors• Only 4KB minified and gzipped• Highly extensible with easy-to-use API• Designed for optimal performance with event delegation	<ul style="list-style-type: none">• CSS 3 Selector support• Full Unicode support• Escaped selector support <code>#id\:value</code>• Contains text <code>:contains(text)</code>• Complex <code>:not :not(a#id)</code>• Multiple <code>:not :not(div,p)</code>• Not attribute value <code>[name!=value]</code>	<ul style="list-style-type: none">• Provides meaningful error messages for syntax problems• Uses a single code path (no XPath)• Uses no browser-sniffing• Caja-compatible code

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)
```

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

Extending Selectors

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

Extending Selectors

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

Behind the Scenes

- `getElementById`
- `getElementsByName`
- `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

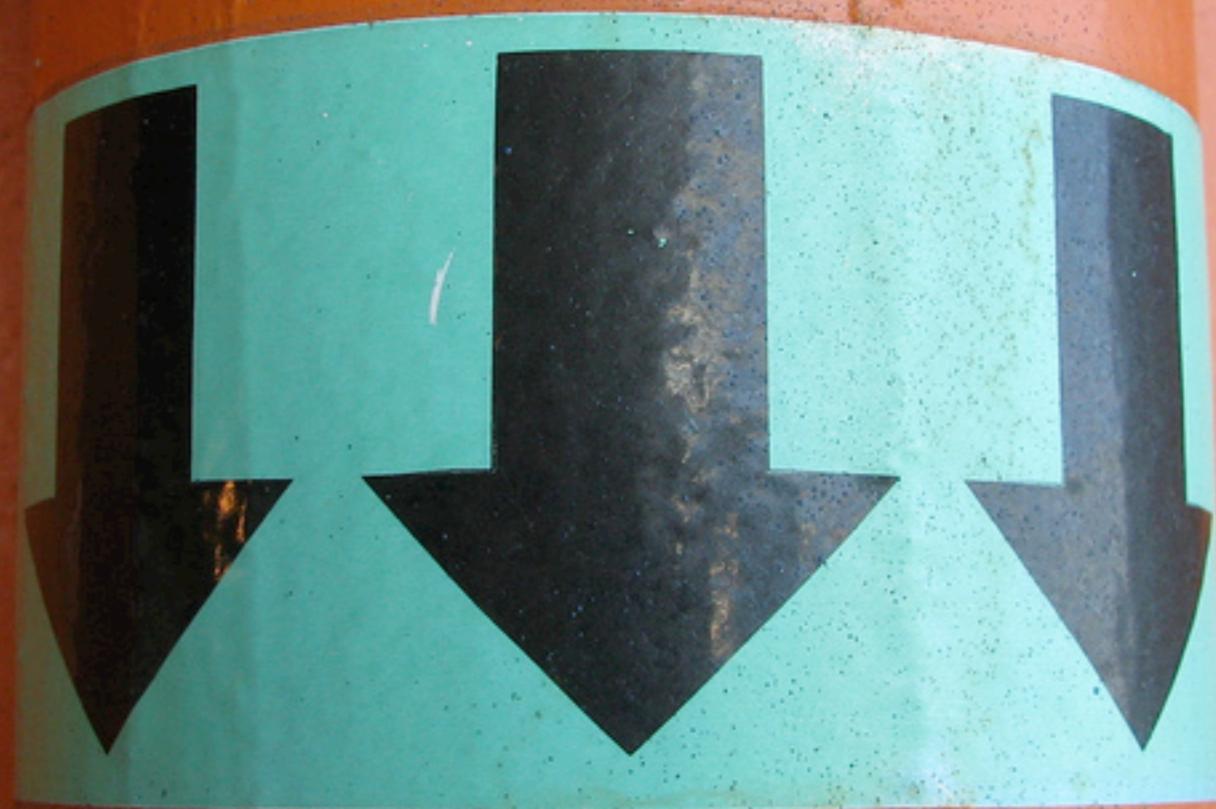
```
$( 'a' ).addClass( 'ready' ).click( fn );
```

One line!

```
$img = $('
```



DOM Navigation



Finding

```
$('li a')
```

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

```
$('a').next()
```

```
$('a').parent()
```

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

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

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

```
$('li a').next()  
<ul>  
  <li>  
    <a href="#first">1st</a>  
      
  </li>  
  <li>  
    <a href="#second">2nd</a>  
      
  </li>  
</ul>
```

```
$('li a').next()  
<ul>  
  <li>  
    <a href="#first">1st</a>  
      
  </li>  
  <li>  
    <a href="#second">2nd</a>  
      
  </li>  
</ul>
```

```
<ul>$( 'li a' ).next().parent()

<li>

  <a href="#first">1st</a>
  

</li>

<li>

  <a href="#second">2nd</a>
  

</li>

</ul>
```

```
<ul>$( 'li a' ).next().parent()

<li>
  <a href="#first">1st</a>
  

</li>
<li>
  <a href="#second">2nd</a>
  

</li>
</ul>
```

```
<ul> $('li a').parents('ul')

<li>
  <a href="#first">1st</a>
  

</li>
<li>
  <a href="#second">2nd</a>
  

</li>
</ul>
```

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

```
<ul>
```

```
  <li>
```

```
    <a href="#first">1st</a>
```

```
    
```

```
  </li>
```

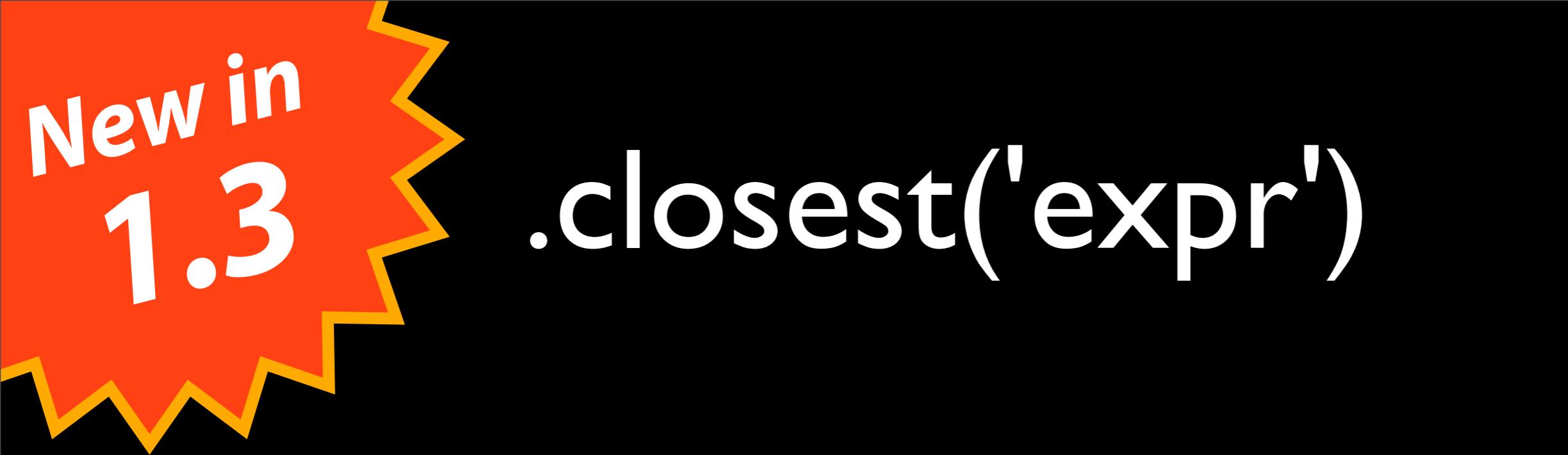
```
  <li>
```

```
    <a href="#second">2nd</a>
```

```
    
```

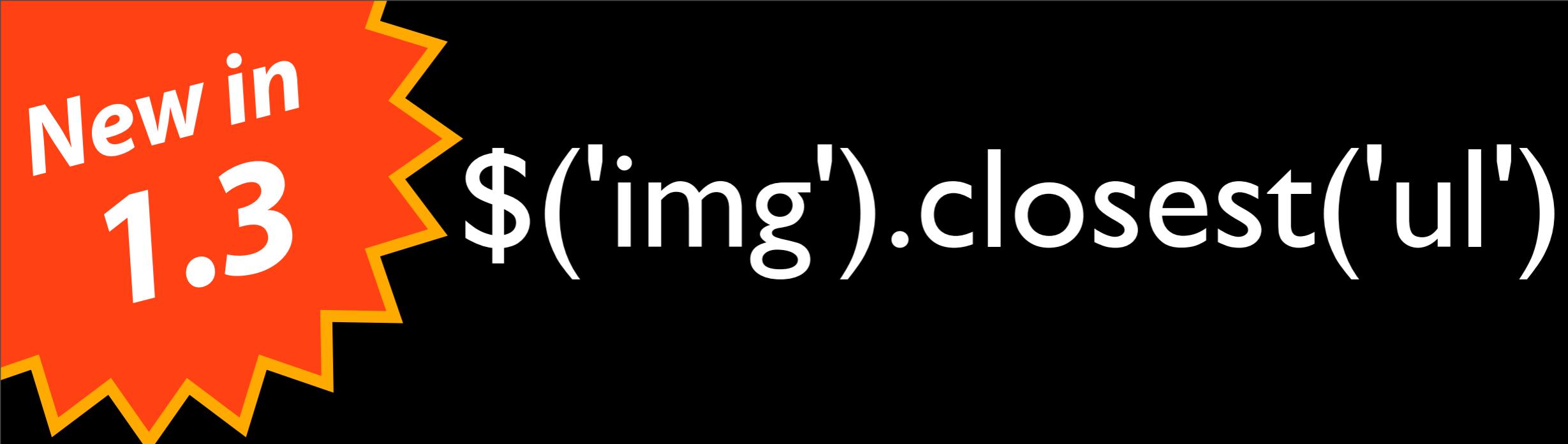
```
  </li>
```

```
</ul>
```



.closest('expr')

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

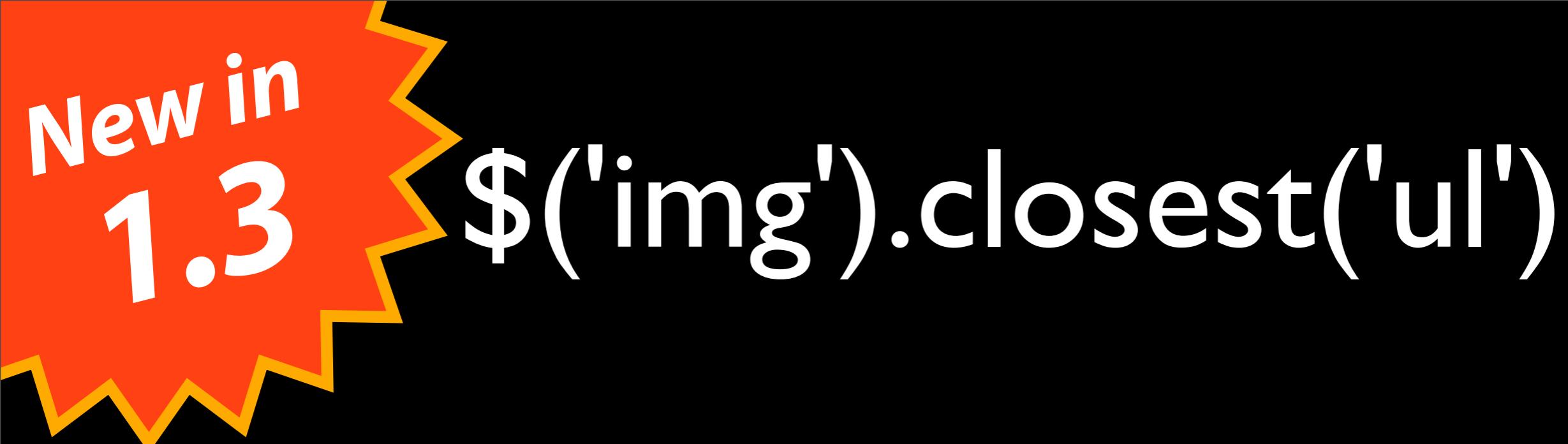


```
<ul>
  <li>
    <a href="#second">2nd</a>
    
  </li>
</ul>
```

New in
1.3

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

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



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

A close-up photograph of a person's neck and head from behind. A white plastic strainer with a metal mesh screen is held against the back of the person's head, covering the nape area. The person has short brown hair and is wearing a grey hoodie.

Filtering

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

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

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

```
$('li')  
<li>  
  <a href="#first">1st</a>  
    
</li>  
  
<li>  
  <a href="#second">2nd</a>  
    
</li>  
  
<li>  
  <a href="#third">3rd</a>  
</li>
```

`$('li')`

``

`1st`

``

``

``

`2nd`

``

``

``

`3rd`

``

```
$('li').filter(':has(img)')  
<li>  
  <a href="#first">1st</a>  
    
  </li>  
<li>  
  <a href="#second">2nd</a>  
    
  </li>  
<li>  
  <a href="#third">3rd</a>  
  </li>
```

```
$('li').filter(':has(img)')  
<li>  
  <a href="#first">1st</a>  
    
  </li>  
<li>  
  <a href="#second">2nd</a>  
    
  </li>  
<li>  
  <a href="#third">3rd</a>  
  </li>
```

```
<li>
```

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

```
  <a href="#first">1st</a>
```

```
  
```

```
</li>
```

```
<li>
```

```
  <a href="#second">2nd</a>
```

```
  
```

```
</li>
```

```
<li>
```

```
  <a href="#third">3rd</a>
```

```
</li>
```

```
$('li').not(':first')  
<li>    <a href="#first">1st</a>  
          
    </li>  
    <li>  
        <a href="#second">2nd</a>  
          
    </li>  
    <li>  
        <a href="#third">3rd</a>  
    </li>
```

```
$('li').slice(0, 2)  
<li>  
  <a href="#first">1st</a>  
    
  </li>  
<li>  
  <a href="#second">2nd</a>  
    
  </li>  
<li>  
  <a href="#third">3rd</a>  
  </li>
```

```
$('li').slice(0, 2)  
<li>  
  <a href="#first">1st</a>  
    
  </li>  
<li>  
  <a href="#second">2nd</a>  
    
  </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('<span />')
```

```
<li>
  <a href="#first">1st</a>
  
</li>
```

```
$('li').append('<span />')
```

```
<li>
  <a href="#first">1st</a>
  
  <span></span>
</li>
```

```
$('li').prepend('<span />')
```

```
<li>
  <a href="#first">1st</a>
  
</li>
```

```
$('li').prepend('<span />')
```

```
<li>  
  <span></span>  
  <a href="#first">1st</a>  
    
</li>
```

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

```
<li>
  <a href="#first">1st</a>
  
</li>

```

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

```
<li>
  
  <a href="#first">1st</a>
  
</li>
```

```
$('ul').wrap('<div />')
```

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

```
$('ul').wrap('<div />')
<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 />')
```

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

```
$( 'li' ).wrapInnner( '<em />' )
```

```
<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



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

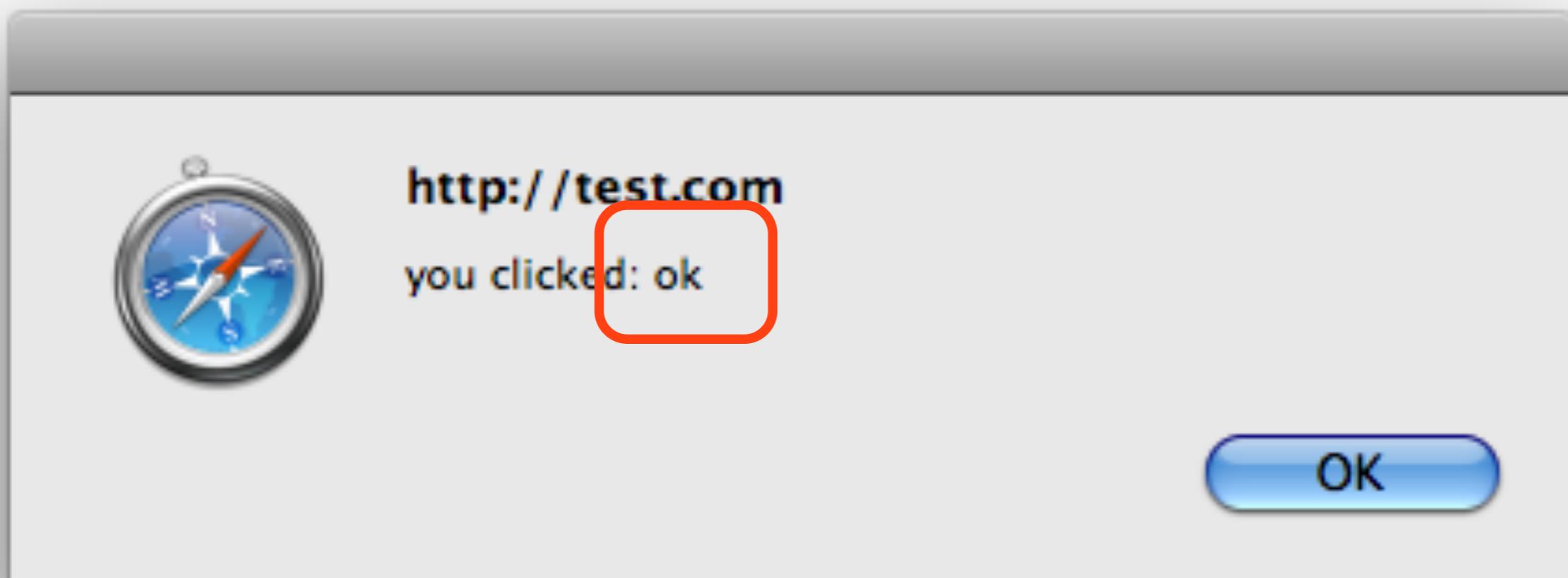


http://test.com/sample.html



Google

ink!



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()`



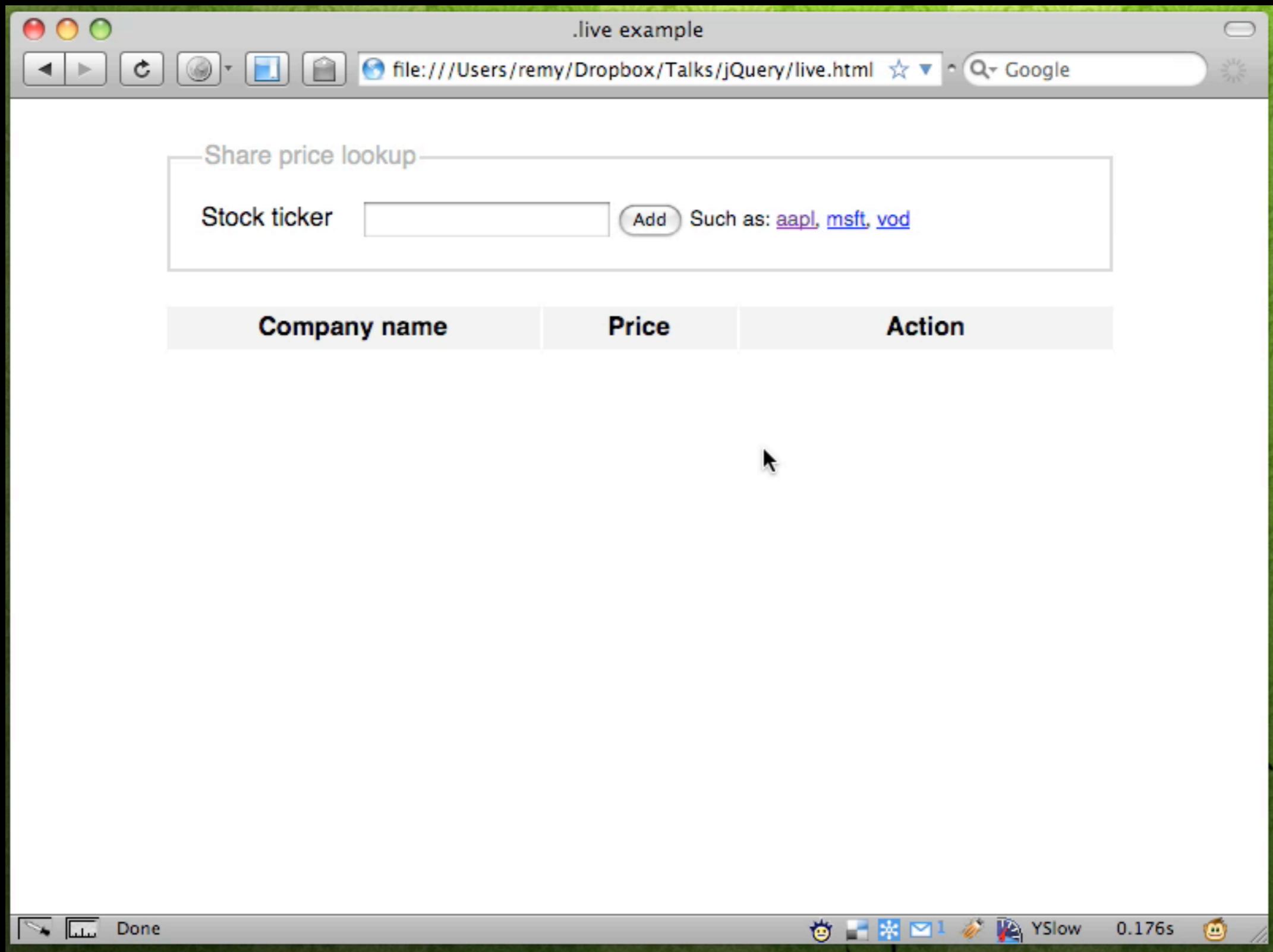
New in
1.3



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***

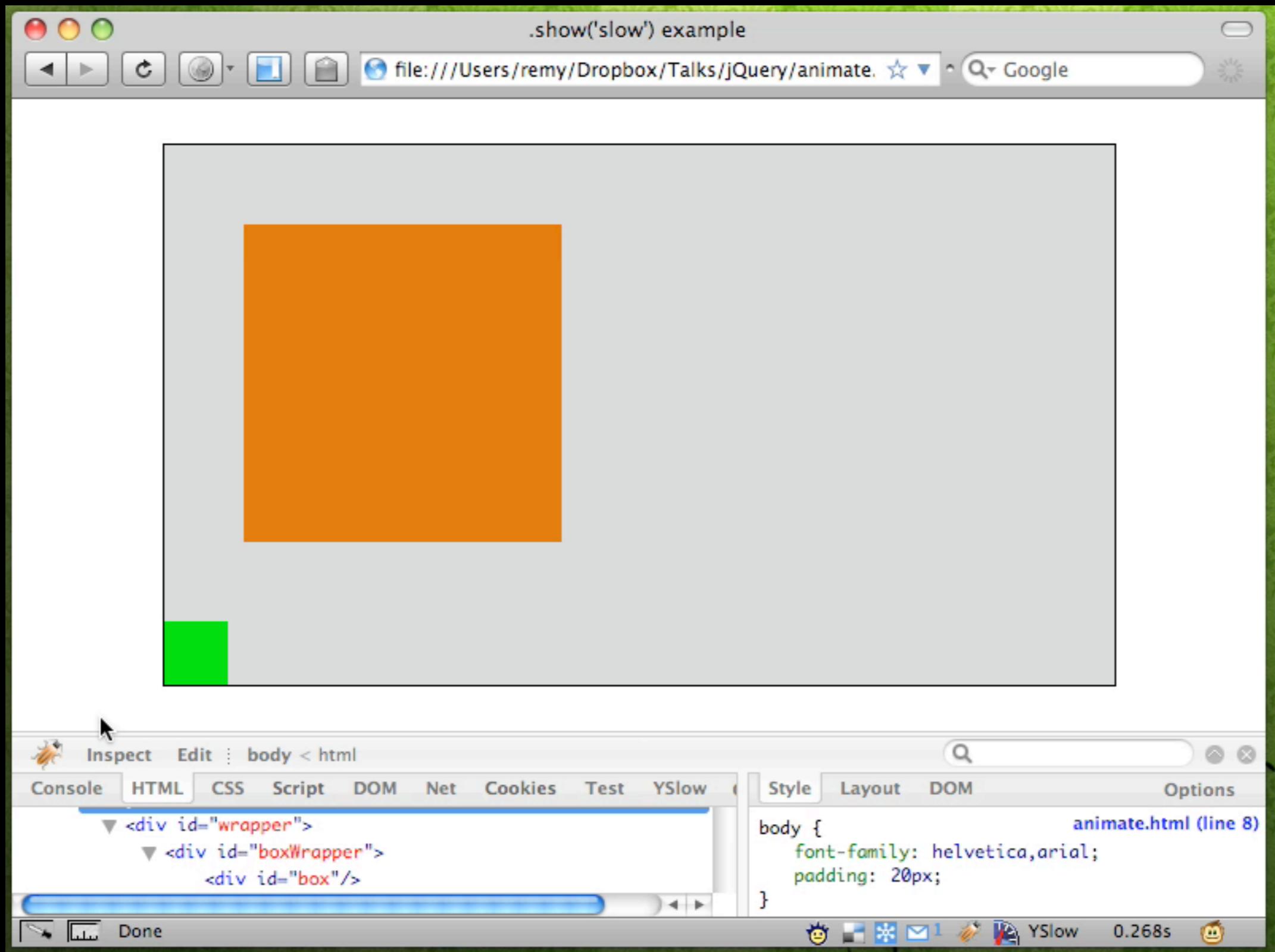


Effects

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();
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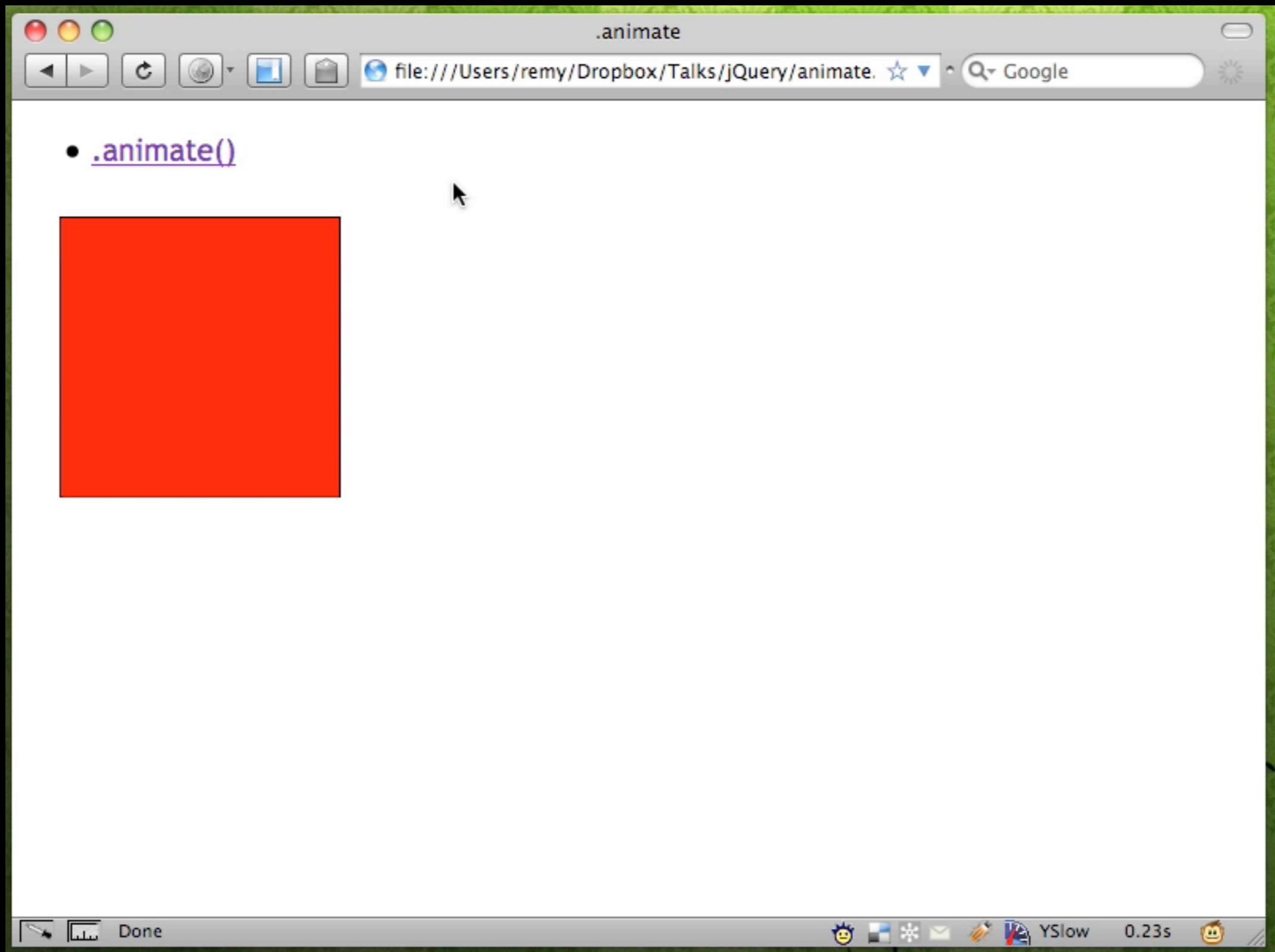
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<http://remysharp.com/demo/animate.html>



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Bespoke Steps

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$('div').queue(function () {  
    $(this).removeClass('newcolor');  
    // pass back to sequence  
    $(this).dequeue();  
});
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`$.fx.off = true`

Enchantment

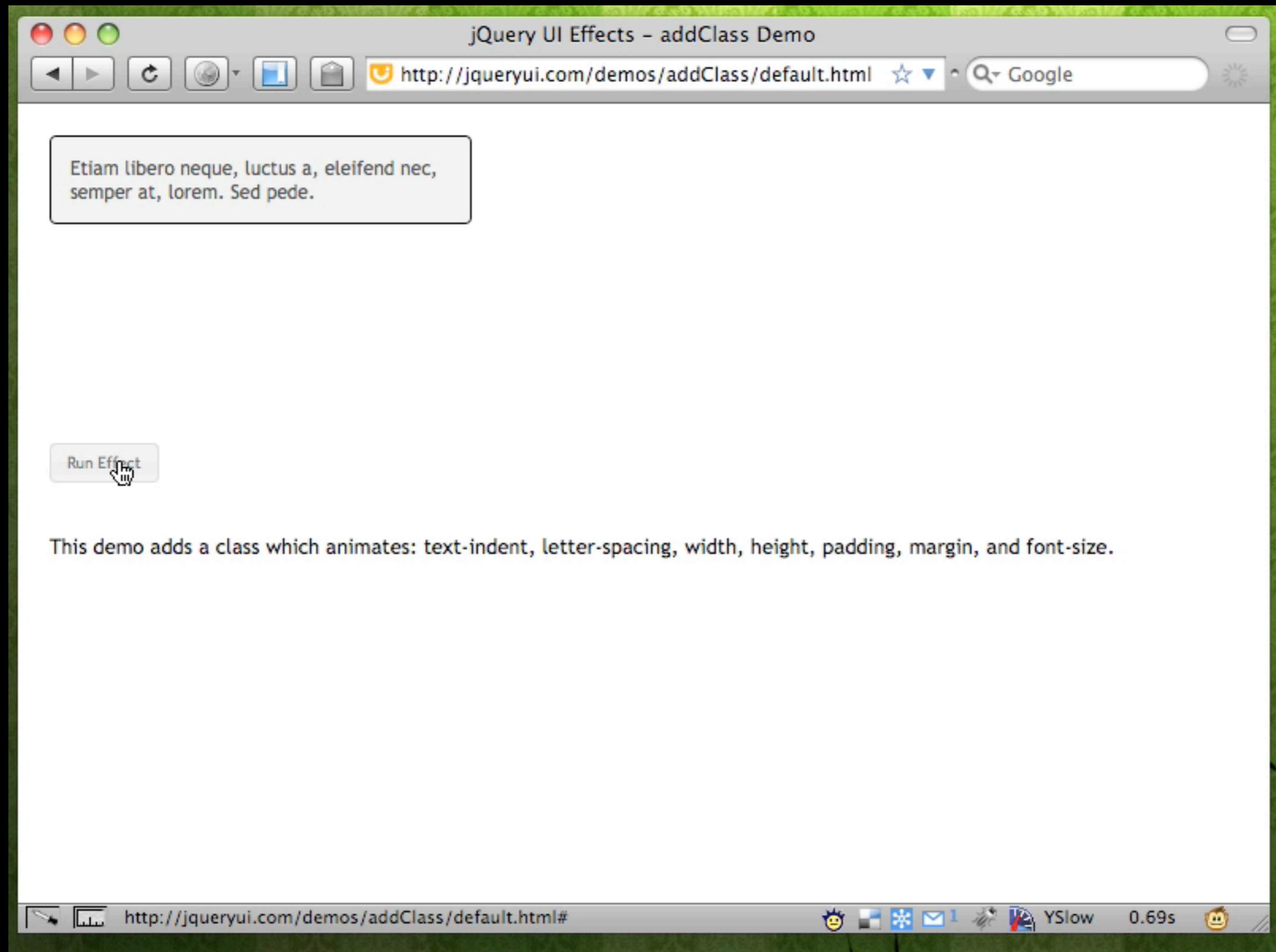
Enchantment

<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



\$support

boxModel

cssFloat

hrefNormalized

htmlSerialize

leadingWhitespace

noCloneEvent

objectAll

opacity

scriptEval

style

tbody

Remy Sharp

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remy@leftlogic.com

<http://remysharp.com>

<http://jqueryfordesigners.com>

<http://full-frontal.org>

Photos by

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