

Yearning jQuery

```
return -c * (Math.sqrt(1 - (t/=d)*t)) - b;  
},  
easeOutCirc: function (x, t, b, c, d) {  
    return c * Math.sqrt(1 - (t=t/d-1)*t) + b;  
},  
easeInOutCirc: function (x, t, b, c, d) {  
    if ((t/=d/2) < 1) return -c/2 * (Math.sqrt(1 - t*t)) -  
    return c/2 * (Math.sqrt(1 - (t-=2)*t) + 1) + b;  
},  
easeInElastic: function (x, t, b, c, d) {  
    var s=1.70158;var p=0;var a=c;  
    if (t==0) return b; if ((t/=d)==1) return b+c; if (!  
    if (a < Math.abs(c)) { a=c; var s=p/4; }  
    else var s = p/(2*Math.PI) * Math.asin (c/a);  
    return -(a*Math.pow(2,10*(t-=1)) * Math.sin( (t*d-s)*(2*  
},  
easeOutElastic: function (x, t, b, c, d) {  
    var s=1.70158;var p=0;var a=c;  
    if (t==0) return b; if ((t/=d)==1) return b+c; if (!  
    if (a < Math.abs(c)) { a=c; var s=p/4; }  
    else var s = p/(2*Math.PI) * Math.asin (c/a);  
    return a*Math.pow(2,-10*t) * Math.sin( (t*d-s)*(2*Math  
},  
easeInOutElastic: function (x, t, b, c, d) {  
    var s=1.70158;var p=0;var a=c;  
    if (t==0) return b; if ((t/=d/2)==2) return b+c; if (!  
    if (a < Math.abs(c)) { a=c; var s=p/4; }  
    else var s = p/(2*Math.PI) * Math.asin (c/a);  
    if (t < 1) return -.5*(a*Math.pow(2,10*(t-=1)) * Math.  
    return a*Math.pow(2,-10*(t-=1)) * Math.sin( (t*d-s)*(2*  
},  
easeInBack: function (x, t, b, c, d, s) {  
    if (s == undefined) s = 1.70158;  
    return c*(t/=d)*t*((s+1)*t - s) + b;  
},  
easeOutBack: function (x, t, b, c, d, s) {  
    if (s == undefined) s = 1.70158;  
    return c*((t=t/d-1)*t*((s+1)*t + s) + 1) + b;  
},  
easeInOutBack: function (x, t, b, c, d, s) {  
    if (s == undefined) s = 1.70158;  
    if ((t/=d/2) < 1) return c/2*(t*t*(((s*=(1.525))+1)*t  
    return c/2*((t-=2)*t*(((s*=(1.525))+1)*t + s) + 2) + b  
},  
easeInBounce: function (x, t, b, c, d) {  
    return c - jQuery.easing.easeOutBounce (x, d-t, 0, c,  
    return c - jQuery.easing.easeOutBounce (x, d-t, 0, c,
```




* **Hi, I'm Remy / @rem**

* **Screencast @
jqueryfordesigners.com**


* **Questions: interrupt me
& ask!**

LEARN
MAGIC
TRICKS
IN
2 MINITS

to



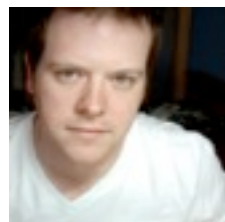
Bar One
munch
chocolate

- 
1. Build without jQuery.
2. Design the start and end of your effects without jQuery.
3. Add jQuery a little at a time.

(a lot of it is...)

"all about CSS"

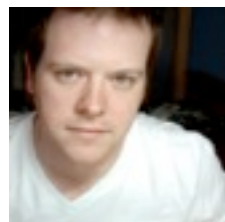
— Me, to many a colleague



@rem

Remy Sharp

Dear designer/dev: if you're using JavaScript to do a job that CSS could have done perfectly well, you've lost some points in my book. Sorry



@rem

Remy Sharp

The day someone loses business because an animated transition wasn't used to reveal a screenshot: I'll sell my left nut on eBay. [#cssinstead](#)

What we're covering

- **Getting friendly with the \$**
- **DOM navigation & manipulation**
- **Events**
- **Ajax**
- **Tips**

APIs

docs.jquery.com

api.jquery.com

visualjquery.com

**Blogs, tutorials, screencasts,
plugins, development sprints**

Twitter

@jquery

@jquerysites

@jqueryui

Help!

forum.jquery.com

IRC channel

irc.freenode.net/#jquery





Bling Function

| Name | Who? |
|---------------|--|
| SuperTed | A teddy brought to life by "cosmic dust", and given special powers by Mother Nature. The main hero of the series. He is voiced by David Jason. |
| Spotty | SuperTed's bumbling companion and best friend, a yellow alien with green spots, from planet Spot. He is voiced by Jon Pertwee. |
| Blotch | Spotty's sister. She is voiced by Shelia Steafel. |
| Texas Pete | An evil cowboy. SuperTed's nemesis, the main villain of the series. He is voiced by Victor Spinetti. |
| Skeleton | A very cowardly, camp skeleton. Hence his name. He is voiced by John Wood Hayes. |
| Bulk | An overweight fool with intense stupidity. He is voiced by Roy Hattersley. |
| Mother Nature | Mother Nature, portrayed as a fairy that grants SuperTed magical powers. |

It means no more of this

```
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';
        }
    }
}
```


jQuery simplifies

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

jQuery simplifies

jQuery function

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


jQuery simplifies

jQuery function

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

CSS expression

jQuery simplifies

jQuery function

jQuery method

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

CSS expression

jQuery simplifies

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

\$ (' just css ')

A pixelated, low-resolution image of a person wearing a wide-brimmed hat and a long coat, possibly a cowboy or a historical figure. The image is centered and serves as a background for the text.

Tools of the Trade

- **Firefox: Firebug (& FireQuery*)**
- **Safari & Chrome: Web Inspector**
- **Opera: DragonFly**
- **IE: Web Developer Toolbar**

HTML 5 Demos and Examples

HTML 5 experimentation and demos I've hacked together. Click on the browser support icon or the technology tag to filter the demos (the filter is an OR filter).



Console

HTML

CSS

Script

DOM

Net

Firefinder

Page Speed

Page Speed Activity



Clear

Persist

Profile

>>> \$('a')

```
[ a two-videos, a canvas-grad, a video-canvas, a video, a canvas, a contenteditable, a geo, a postmessage, a postmessage2, a drag, a drag-anything, a offline, a nav-online, a offline-events, a offlineapp, a storage, a database, a database-rollback, a worker, a non-worker, a uk, a#built rem ]
```

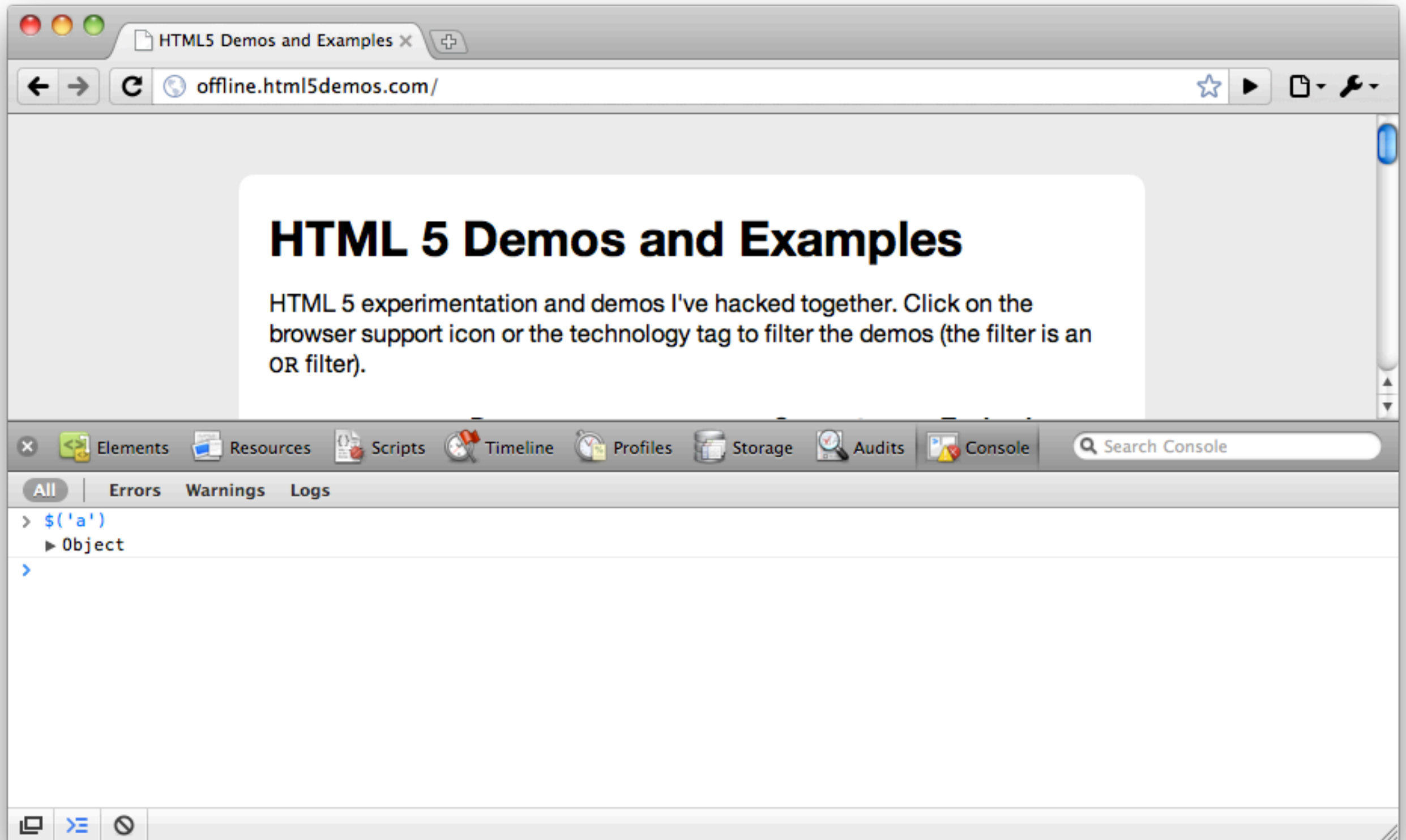
\$('a')

Run

Clear

Copy

Done



JS Bin*

http://offline.jsbin.com/

Code Render Save Download View: ☒ JavaScript ☒ HTML ☐ Real-time preview Help & tutorials

JavaScript

```
if (document.getElementById('hello')) {  
  document.getElementById('hello').innerHTML = 'Hello World - this wa  
}
```

HTML

```
<!DOCTYPE html>  
<html>  
<head>  
<meta charset=utf-8 />  
<title>JS Bin</title>  
<!--[if IE]>  
  <script src="http://html5shiv.googlecode.com/svn/trunk/html5.js">  
<![endif]>  
<style>  
  article, aside, figure, footer, header, hgroup,  
  menu, nav, section { display: block; }  
</style>  
</head>  
<body>  
  <p id="hello">Hello World</p>  
</body>
```

Console HTML CSS Script DOM Net

Edit html

```
<!DOCTYPE html>  
<html lang="en">  
  <head>  
    <body class="source beta"> jQuery15205336018542333171=Object { events=[...] }  
      <div id="streaming">  
        <div id="control">  
          <div class="control">  
            <div class="buttons">  
              <a class="tab button source group left" href="#source" accesskey="1"> Code </a> jQuery15205336018542333171=Object { events=[...] }  
              <a class="tab button preview group right gap" href="#preview" accesskey="2"> Render </a> jQuery15205336018542333171=Object { events=[...] }  
              <a id="revert" class="button light group left enable" href="#" title="Revert" style="display: inline;"> jQuery15205336018542333171=Object { olddisplay="inline", events=[...] }  
              <a id="save" class="button save group" href="/save"> Save </a> jQuery15205336018542333171=Object { events=[...] }  
              <a id="download" class="button download group right light gap" href=""> Download </a> jQuery15205336018542333171=Object { events=[...] }  
              <a id="stream" class="button left
```

Style Computed Layout DOM

This element has no style rules. You can [create a rule](#) for it.



Tip

\$.fn.jquery

(little 'q')

Let's play.

<http://twitter.com>

jQuery on every site?


No Problem.

by Karl Swedberg

A long time ago I built myself a little bookmarklet to load jQuery on pages that don't have it. The idea was to allow me to play around with any page on the web, using jQuery in the Firebug (and now Safari or IE8) console. I **blogged about it**, got lots of great feedback, and **blogged about an improved version**. Now that a lot more great feedback has come in from the comments of the updated bookmarklet post, I've decided to update it one more time.

The Bookmarklet

To use the bookmarklet, drag the following link to your bookmark/favorites list:

» **jQueryify** «


Then, when you're on a page in which you want to play around with jQuery in the console, click the bookmarklet.

Problems with the Other One

The biggest problem with the former version was that it didn't work when other libraries that use the `$` function, such as Prototype and Mootools, were already loaded on the page.

<http://bit.ly/9JAcCj>

Let's play.

Installing jQuery

dev or min?

Hosting options

- **Host it yourself (good for offline dev)**
- **Hotlink it:**
 - **Media Temple**
 - **Microsoft**
 - **Google (my pick)**

http://docs.jquery.com/Downloading_jQuery

CDN FTW

**Tip: keep a copy on
your machine**

Where does it all go?

- **jQuery first**
- **Then jQuery plugins**
- **Then your code**

- **Other JavaScript libraries**
- **jQuery last library**
- **Then jQuery plugin scripts**
- **Then your code**

```
<html>
<head>
  <styles>
    <!-- make me beautiful -->
  </styles>
</head>
<body>
  <content>
    <!-- make me learned -->
  </content>
  <behaviour>
    <!-- ooo, matron -->
  </behaviour>
</body>
</html>
```


**Styles first
let's the page
render
without
scripts
blocking**

```
<html>
<head>
  <styles>
    <!-- make me beautiful -->
  </styles>
</head>
<body>
  <content>
    <!-- make me learned -->
  </content>
  <behaviour>
    <!-- ooo, matron -->
  </behaviour>
</body>
</html>
```

**Then your
content,
again so that
it's delivered
to your
visitor as
early as
possible**

```
<html>
<head>
  <styles>
    <!-- make me beautiful -->
  </styles>
</head>
<body>
  <content>
    <!-- make me learned -->
  </content>
  <benaviour>
    <!-- ooo, matron -->
  </behaviour>
</body>
</html>
```

**Finally, add
your
behaviour,
the jQuery
and sexy
magic jazz.**

```
<html>
<head>
  <styles>
    <!-- make me beautiful -->
  </styles>
</head>
<body>
  <content>
    <!-- make me learned -->
    <behaviour>
      <!-- ooo, matron -->
    </behaviour>
  </content>
</body>
</html>
```

```
$ (document) .ready (function () {
```

```
// < YOU >
```

```
});
```



```
$ (document) .ready ( function () {  
    // < YOU >  
}) ;
```

```
$ (function () {
```

```
// < YOU >
```

```
});
```



Tip

```
jQuery(function ($) {
```

```
// < YOU >
```

```
});
```

Useful when giving code to a client

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset=utf-8 />
<title>My first jQuery page</title>
</head>
<body>
<h1>Remy woz 'ere</h1>
<p>Lorem ipsum dolor sit amet.</p>
<script src="jquery.min.js"></script>
<script>
$(function () {
    // < YOU >
});
</script>
</body>
</html>
```


Is it jQuery or \$?

It's both.

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

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



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

∞∞∞ Chaining ∞∞∞

```
$ ( 'div' ) .show ( ) .hide ( ) .slideUp ( ) .slideDown ( ) ;
```

```
$ ( 'div' ) . show ( ) . hide ( ) . slideUp ( ) . slideDown ( ) ;
```

Get the divs,

```
$ ( 'div' ) .show ( ) .hide ( ) .slideUp ( ) .slideDown ( ) ;
```

and show them,

```
$ ( 'div' ) .show ( ) .hide ( ) .slideUp ( ) .slideDown ( ) ;
```

now hide them,


```
$ ( 'div' ) .show ( ) .hide ( ) .slideUp ( ) .slideDown ( ) ;
```

and then slide them up,

```
$ ( 'div' ) .show ( ) .hide ( ) .slideUp ( ) .slideDown ( ) ;
```

then finally slide them down.

Can't chain text getters

✖ TypeError: \$("em").html().parent is not a function {
message="\$("em").html().parent is not a
function", more...}

.val() .html() .text() .css(prop) .attr(prop), etc



```
if ( $( 'foo' ) ) {  
    doAmazing();  
}
```

1) \$('foo')

2) \$()

3) []

4) [].join(', ') // works

```
if ( $( 'foo' ) ) {  
    doAmazing();  
}
```

```
if ( $( 'foo' ).length ) {  
    doAmazing();  
}
```


`$('el').doStuff`

`vs`

`$.doStuff`

`$('el').doStuff`

runs against

everything

matched.

\$.doStuff

is a utility.

Deprecated

\$. browser . version

\$. browser . msie

\$. browser . safari

\$. browser . webkit

Doing stuff



```
$('a').click(function () {  
    alert('I got clicked');  
    return false;  
});
```

```
$('a').click(function () {  
    alert('I got clicked');  
    return false;  
});
```

Find the anchors

```
$('a').click(function () {  
    alert('I got clicked');  
    return false;  
});
```

when they're clicked


```
$ ( 'a' ).click(function () {  
    alert('I got clicked');  
    return false;  
}) ;
```

**run this function - don't worry
about the crazy syntax.**

```
$('a').click(function () {  
    alert('I got clicked');  
    return false;  
});
```

**Cancel the browser's default
action, which is to redirect.**

```
$ ( ' a ' ) . click ( function ( event ) {  
    event . preventDefault ( ) ;  
    alert ( ' I got clicked ' ) ;  
} ) ;
```

**Same thing as cancelling (almost),
this is useful for debugging.**

- **click, dblclick**
- **mousedown, mouseup, mousemove
mouseover, mouseout, mouseenter
mouseleave**
- **keydown, keypress, keyup**
- **submit, change, blur, focus, select**
- **scroll, resize, load, error**

Tab's freakin' everywhere!



iPlayer

Home

TV Channels

Radio Stations

Categories

A to Z

Catch up on the last 7 days of BBC TV & Radio

TV HIGHLIGHTS

TV RADIO



▶ Luther



▶ BBC News Special



▶ Theo's Adventure Ca...



▶ La La Land



▶ Children's Emergenc...

TV

YESTERDAY

TODAY

- BBC Two**
Tellytales
4:30 pm
(Not available)
- BBC Three**
▶ dirtgirlworld
4:45 pm
- BBC Four**
Grandpa In My Pocket
5:00 pm
(Not available)
- CBBC**
▶ ZingZillas
5:00 pm
- CBeebies**
▶ Chuggington
5:00 pm
- BBC News Channel**
Big and Small Songs
5:35 pm
(Not available)
- BBC Parliament**
▶ Driver Dan's Story Train
6:00 pm
- BBC HD**
▶ 64 Zoo Lane
ON NOW
6:10 pm
- BBC iPlayer**
In the Night Garden
6:20 pm
(Coming soon)

Radio



BBC Radio 1

NOW ON: Scott Mills

6:00 pm - 7:00 pm

News

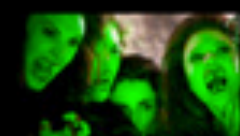


▶ Click

more...

Most Popular

TV RADIO

▶ Luther
Episode 2▶ EastEnders
Mon, 10 May
2010▶ Russell
Howard's Good
Ne...
Episode 7▶ The Story of
Science: Po...
3. How Did We
Get Here?▶ Live at the
Apollo - Ser...
Episode 1▶ Doctor Who -
Series 5
6. The Vampires
of Venic...▶ Blood, Sweat
and Luxurie...
4. Gold and E-
waste

Last Played

CLEAR



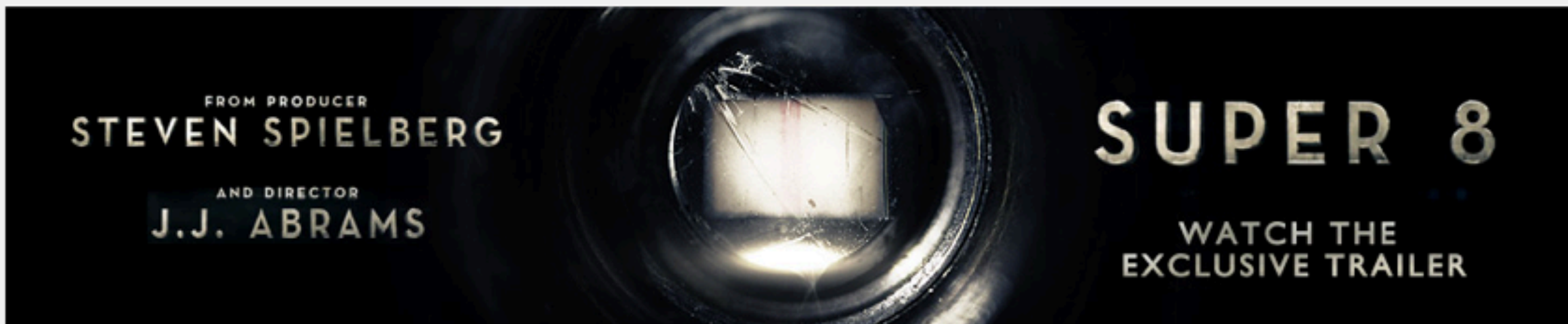
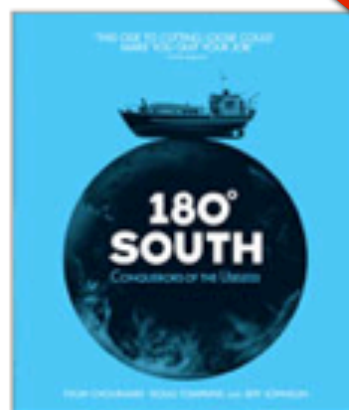
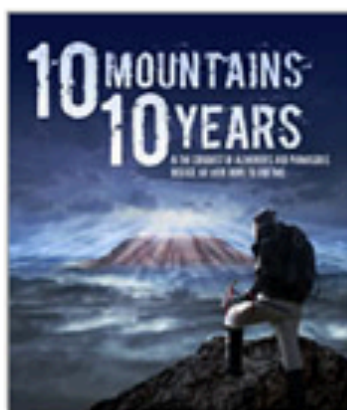
0:00.39 / 1:41.28

Ginger Snaps
(Not available)Russell Howard's Good News -
Series 2
Episode 3
(Not available)Rhod Gilbert's Work
Experience
3. Hairdresser
(Not available)Missing - Series 2
Episode 1
(Not available)Tsotsi
(Not available)

Undercover Princesses

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iTunes Movie Trailers















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In Theaters

Weekend Box Office






1. Iron Man 2
2. A Nightmare On Elm...
3. How To Train Your...
4. Date Night
5. The Back-up Plan
6. Furry Vengeance
7. Clash of the Tita...
8. Death At a Funera...

MY FAVOURITES + Add

-  View Yahoo! Sites >
-  Yahoo! Mail >
-  Cars >
-  Dating >
-  Facebook >
-  Finance (FTSE 100 ↑) >
-  Flickr >
-  Games >
-  Kelkoo >
-  Movies >
-  News >
-  Sport >
-  Travel >
-  Weather (9°C) >

Edit Add

RECOMMENDED

-  BBC UK News >
-  Time Out London >
-  Messenger >
-  Music >
-  Careers >

TODAY - 12 May, 2010



New country to join the Euro

The European Commission has given its approval for the 17th country to join the euro currency. » Which one? • Spain out of recession • More currency



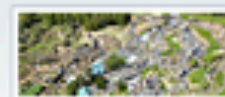
New country to join the Euro



M&S model in 'suicide bid'



How new taxes will affect you



Giant crater kills family of four

Y!NEWS theguardian Telegraph Mail

DAVID CAMERON BECOMES PRIME MINISTER: Theresa May classes pay...

- UK ELECTION 2010: David Cameron and Nick Clegg make...
- David Cameron's new Cabinet: Theresa May is Home...
- David Miliband declares himself for Labour leadership...
- David Cameron new Prime Minister: OUT goes the Brown...
- DAVID CAMERON AS PM: Cautious welcome from market as...
- Couple facing jail after making over £1m running London...
- M&S model Noemie Lenoir found unconscious after...
- Model behaviour from 'gorgeous but grounded' Georgia May...
- The First Wives' Club: Miriam and Samantha wake up to a...

updated 18:25

Mail Online >>

Trending now

Y! Search

1. New PM Cameron
2. Cabinet ministers
3. Noemie Lenoir
4. Cheryl Cole
5. The Rolling Ston...
6. Junior Apprentice
7. Europa League
8. John Terry
9. Cannes Film Fest...
10. Unemployment rate

£30?

DAILY OFFERS



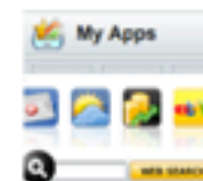
Play Lotto
Play online and you could win millions.



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One year hosting and domain with one.com

Try the new Yahoo! Toolbar today

Y! Toolbar



- **Previews** - Easily check emails, pokes and bids on the go
- **Personalise** - Customise your toolbar with your favourite apps
- **Search faster** - Helpful suggestions give you the answers quicker



March 9, 2010

Route map to Keypoint 2.0

More than just an iPad

Designing iPhone icons

My thoughts on 2010

Going the extra mile

URL ABC

iPhone Tech Talk Paris

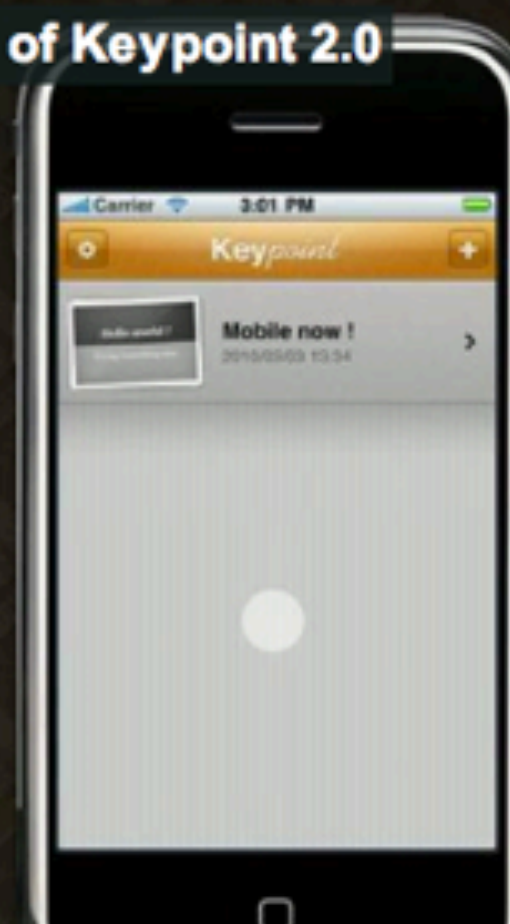
Keypoint 2.0 , almost ready ...

1

TAGS: DEVELOPMENT, IPHONE, KEYPOINT, MOBILE

A quick preview of Keypoint 2.0

from Bert Timmermans



← OLDER

You get the idea.

A tabbing system is...

- **A group of "panels"**
- **Tabs (or links) pointing to a panel**
- **Clicking tab, hides all panels, then shows just one**

**...the content can
also be be Ajaxy**

A few words on this

this is the *element*
that the event is
happening to.

```
$ ( ' a ' ) . c l i c k ( f u n c t i o n   ( )   {  
    c o n s o l e . l o g ( t h i s ) ;  
} ) ;
```

this is the anchor element, not the jQuery wrapped element.

Common mistake

```
$( 'a' ).click(function () {  
    setTimeout(function () {  
        $( this ).text( "I'm alive!" );  
    }, 1000 );  
});
```

Common mistake

```
$('a').click(function () {  
    setTimeout(function () {  
        $(this).text("I'm alive!");  
    }, 1000);  
});
```

this is the **window** object, not the link

Common mistake

```
$('a').click(function () {  
    var el = this;  
    setTimeout(function () {  
        $(el).text("I'm alive!");  
    }, 1000);  
});
```

Live codin' time!

tabs.html

Events

red rock
CASINO • RESORT • SPA



SQUIRREL NUT ZIPPERS
LIVE FRI, DEC 14 &
SAT, DEC 15
FREE IN ROCKS LOUNGE
DOORS @ 8PM, SHOW @ 9PM

```
$( 'input' ).keydown(function (event) {  
    // what's the event arg?  
});
```

- **.keyup(fn), .click(fn), etc**
- **.bind(type, fn)**
- **.trigger(type), unbind(type)**
- **.one(type, fn)**



Tip

Clickables

```
$.event.special.click = {  
  setup: function() {  
    $(this).css('cursor', 'pointer');  
    return false;  
  },  
  teardown: function() {  
    $(this).css('cursor', '');  
    return false;  
  }  
};
```

All credit to David Walsh

Problem

**When the
page has
finished
loading, the
jQuery runs**

```
<h1>Super Ted</h1>



<script src="jquery.js">
<script>
$( 'img' ).click(function() {
    showDetails(this);
});
</script>
```

**Clicking
these images
"shows
details"**

```
<h1>Super Ted</h1>



<script src="jquery.js">
<script>
$( 'img' ).click(function() {
    showDetails(this);
});
</script>
```

**Now Ajax
(or something
else) add new
images to the
page**

```
<h1>Super Ted</h1>



<script src="jquery.js">
<script>
$( 'img' ).click(function() {
    showDetails(this);
});
</script>
```

**Now Ajax
(or something
else) add new
images to the
page**

```
<h1>Super Ted</h1>
```

```

```

```

```

```

```

```

```

```
<script src="jquery.js">
```

```
<script>
```

```
$( 'img' ).click(function() {  
    showDetails(this);
```

```
});
```

```
</script>
```


**Clicking this
image doesn't
do anything.**

```
<h1>Super Ted</h1>




<script src="jquery.js">
<script>
$( 'img' ).click(function() {
    showDetails(this);
});
</script>
```

Solution: delegation

```
<h1>Super Ted</h1>
```

```

```

```

```

```

```

```
<script src="jquery.js">
```

```
<script>
```

```
$( '#superTed' ).delegate( 'img', 'click', function() {
```

```
    showDetails(this);
```

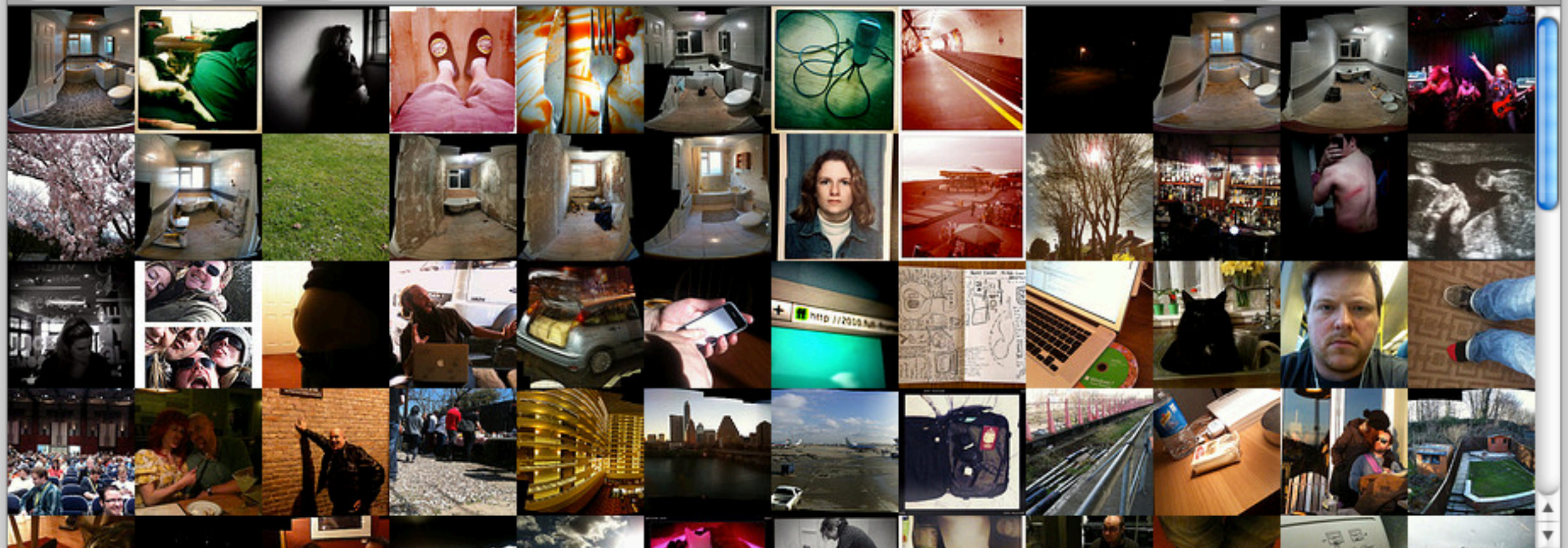
```
});
```

```
</script>
```

My Awesome Gallery

file:///Users/remy/Dropbox/Talks/jQuery/Workshops/J4D-2/gallery/index.h

Google



Console HTML CSS Script DOM Net Firefinder Page Speed Page Speed Activity

Edit div < body < html

```
<html lang="en">
<head>
<body>
  <div>
    
    
    
    
    
    
    
    
    
    
    
    
    
  </div>
</body>
</html>
```

Style Computed Layout DOM

index.html (line 8)

```
div {
  line-height: 0;
}
```

index.html (line 7)

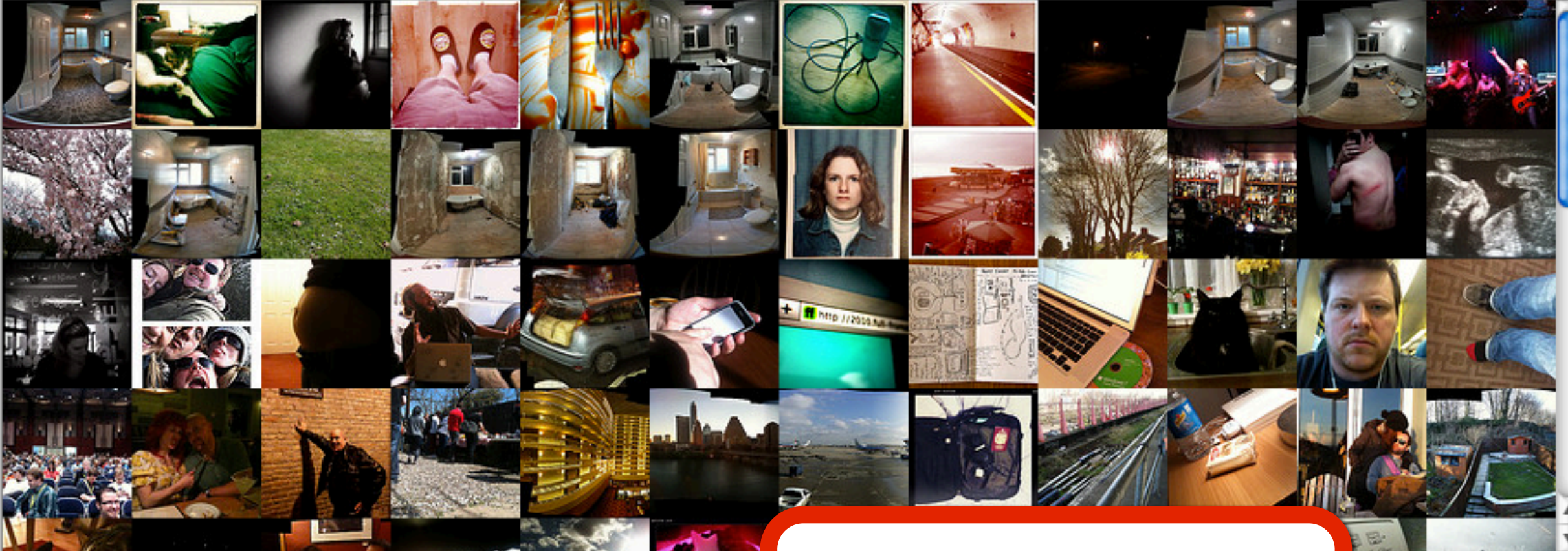
```
* {
  margin: 0;
  padding: 0;
}
```

Done

My Awesome Gallery

file:///Users/remy/Dropbox/Talks/jQuery/Workshops/J4D-2/gallery/index.h

Google



Console HTML CSS Script DOM Net Firefinder

Edit div < body < html

```
<html lang="en">
  <head>
  <body>
    <div>
      
      
      
      
      
      
      
      
      
      
      
      
      
    </div>
  </body>
</html>
```

DOM

index.html (line 8)

index.html (line 7)

Done

These images are loaded *after* the DOM has loaded via Ajax

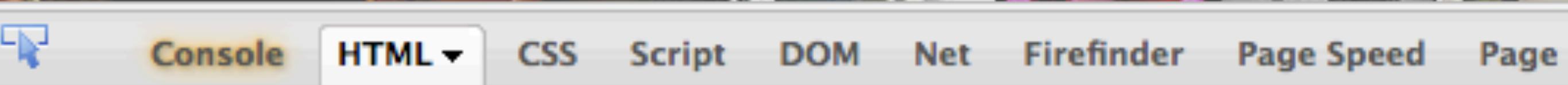


We're going to "delegate" the task of listening for particular events to this <div>

Console

Edit : div

```
html lang="en">
<head>
<body>
  <div>
    
    
    
    
    
    
    
```

Edit : div

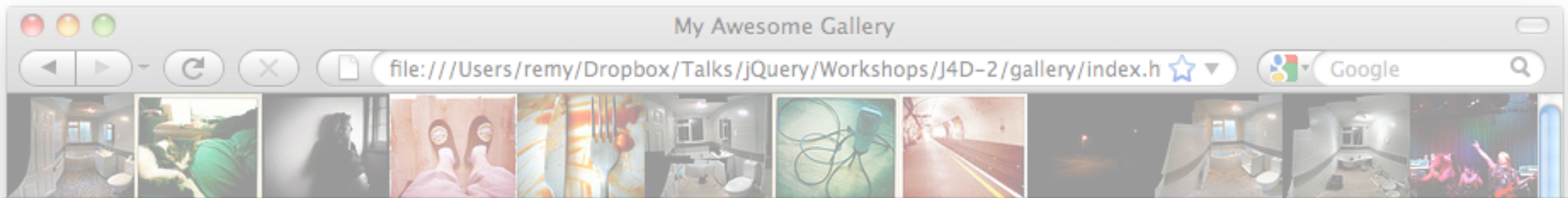
html lang="en">

<head>

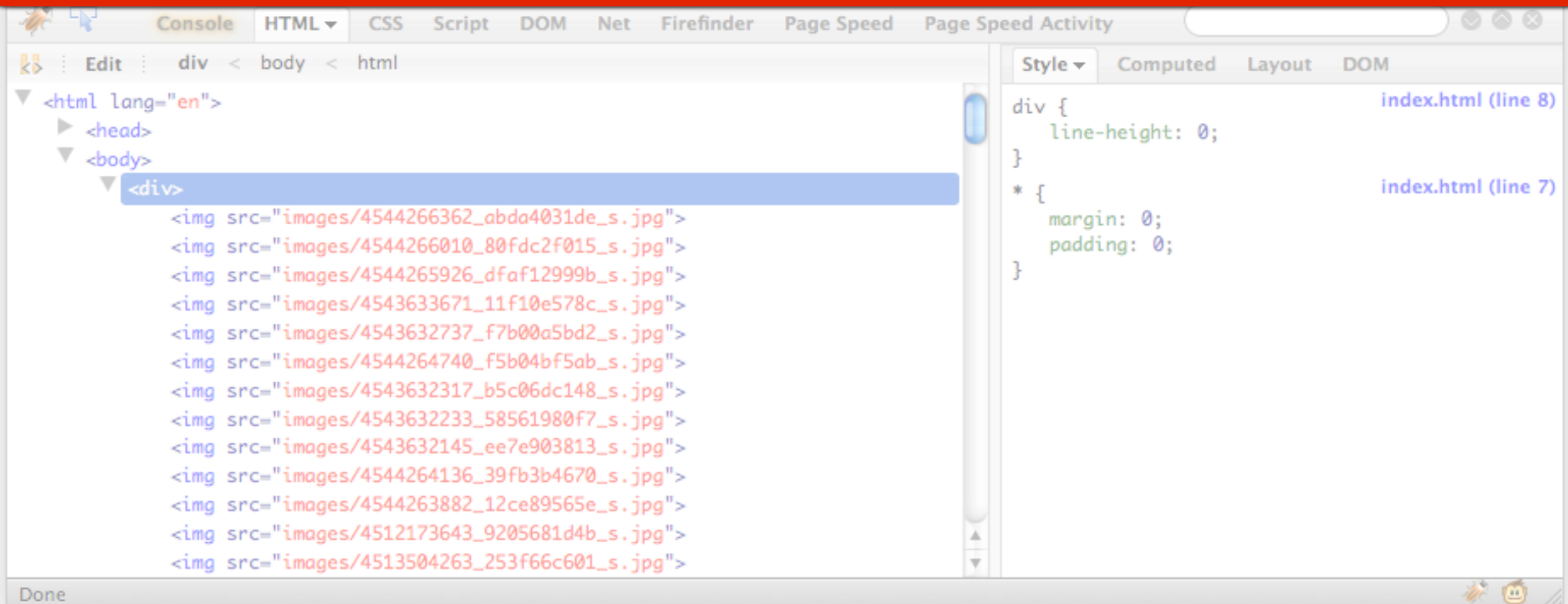
<body>

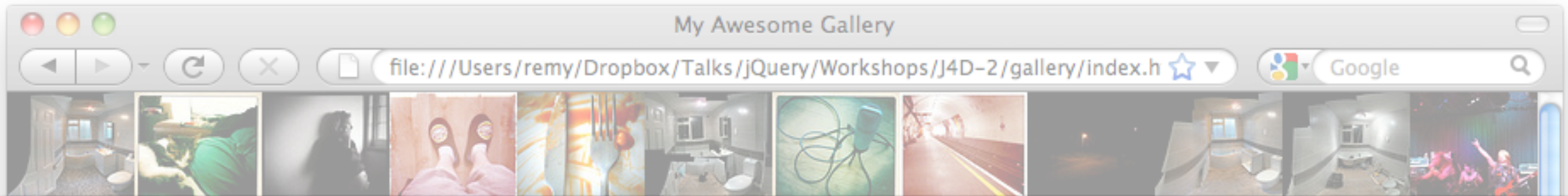
<div>

**We've "delegate" clicks,
looking for the "img" selector**



```
$('div').delegate('img', 'click', function() {  
    /* do funky stuff */  
});
```





**Now, any new images inserted in this
<div> can be clicked and will fire the
"funky stuff" function**

```
<html lang="en">
  <head>
  <body>
    <div>
      
      
      
      
      
      
      
      
      
      
      
      
      
    </div>
  </body>
</html>
```

```
div {
  line-height: 0;
}
* {
  margin: 0;
  padding: 0;
}
```

index.html (line 8)

index.html (line 7)

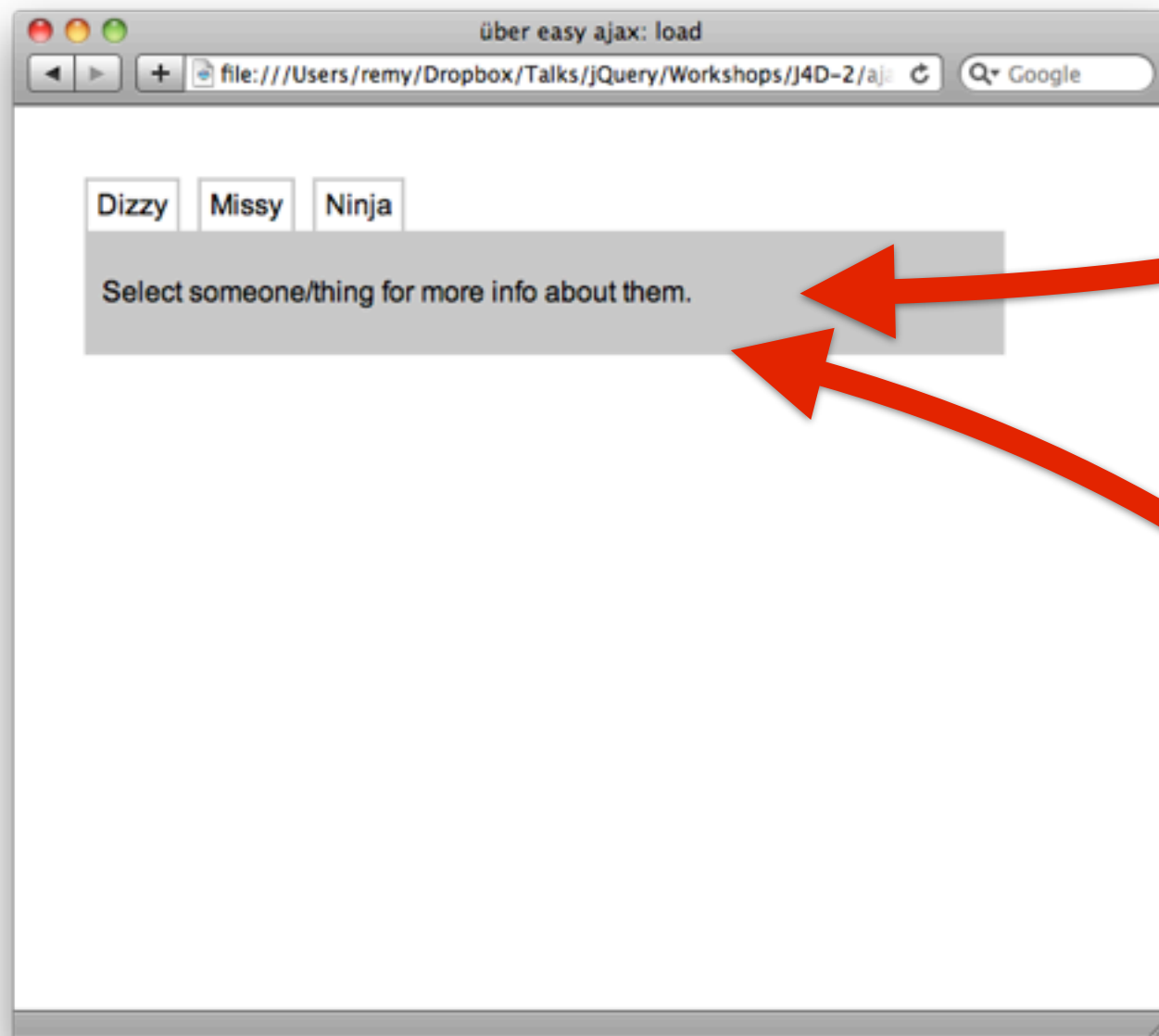


Ajax

Warning: wear your tech-hat

No brainer Ajax

.load



Remy's Cats

Dizzy



Name
Dizzy
Colour
Tabby
Super power
Sleeping

Ninja



Name
Lord Ninja of Catville
Colour
Black & White
Super power
Most pathetic meow known to catkind

Missy



Name
Missy
Colour
Black
Super power
Computer hardware protection

Example

```
$ ( ' #detail ' ) .load ( ' page.html ' ) ;
```

```
$ ( ' #detail ' ) .load ( ' page.html #id ' ) ;
```

- 1. Ajax load the page**
- 2. Search for the selector passed
(#dizzy)**
- 3. Squirt contents found into original
selector**

```
$ ( ' #tabs a' ).click(function (event) {  
    // this.pathname = 'ajax-load-detail.html'  
    $ ( ' #detail' ).load(this.pathname);  
    return false;  
});
```

this.hash

```
$( '#tabs a' ).click(function (event) {  
    $( '#detail' ).load(this.pathname + ' ' +  
this.hash);  
    return false;  
});
```


JSON

JavaScript Object

```
{  
    screen_name : "@rem",  
    height : "short",  
    fingers : 5,  
    brit : true  
}
```

JSON

```
{  
  "screen_name": "@rem",  
  "height": "short",  
  "fingers": 5,  
  "brit": true  
}
```

JSONP WTF

JSON+...

```
{  
  "screen_name": "@rem",  
  "height": "short",  
  "fingers": 5,  
  "brit": true  
}
```

JSON+Padding

```
callback({  
  "screen_name": "@rem",  
  "height": "short",  
  "fingers": 5,  
  "brit": true  
});
```


**Getting other
people's data**

\$.getJSON

Remember = ?

Twitter

`ajax/twitter.html`

```
$(document).ready(function () {  
    $.getJSON('http://twitter.com/statuses/user_timeline/rem.json?callback=?',  
    function (data) {  
        $('#tweets').empty();  
  
        $.each(data, function (i, item) {  
            $('#tweets').append('<li class="tweet">' + item.text + '</li>');  
        });  
    });  
});
```

Giving users feedback

Ajax order

1. **ajaxStart**
2. **ajaxSuccess (or ajaxError)**
3. **ajaxComplete**

<http://api.jquery.com/?s=ajax>

```
$ ( ' #status ' ) . ajaxStart ( function ( ) {  
    $ ( this ) . fadeIn ( ) ;  
} ) . ajaxComplete ( function ( ) {  
    $ ( this ) . fadeOut ( ) ;  
} ) ;
```

Deferreds

```
$ .get( 'foo.html' , function (html) {  
var jqXHR = $.get( 'foo.html' );  
    $( '#latest' ).append(html);  
})  
jqXHR.done(function (html) {  
    $( '#latest' ).append(html);  
});
```

```
$.ajax({  
  url: 'foo.json',  
  dataType: 'json',  
  success: function () {  
    // this === xhr  
  },  
  error: function () {  
  
  }  
});
```

```
$.ajax({  
  url: 'foo.json',  
  dataType: 'json',  
  context: document.body,  
  success: function () {  
    // this === body element  
  },  
  error: function () {  
  
  }  
});
```

```
var jqXHR = $.ajax({  
    url: 'foo.json',  
    dataType: 'json',  
    context: document.body  
});  
  
jqXHR.then(success, fail);
```



```
var jqXHR = $.ajax({  
    url: 'foo.json',  
    dataType: 'json',  
    context: document.body  
});
```

```
jqXHR.then(success, fail);
```

```
// much later in the code
```

```
jqXHR.done(success2);
```

**jqXHR is a
promise**



rem Remy Sharp

Anyone fancy the challenge of defining a promise (computing) in layman terms (and fits in a tweet!)?

11 minutes ago

— in reply to @rem ↑ —



@tobie

Tobie Langel

@rem A promise lets you delegate work to someone else knowing you're guaranteed to receive a call once the work's finished or if it failed.

3 minutes ago via **Twitter for Mac** ☆ Favorite ↺ Retweet ↻ Reply



tobie Tobie Langel



@rem A promise lets you delegate work to someone else knowing you're guaranteed to receive a call once the work's finished or if it failed.

9 minutes ago

— in reply to @tobie ↑ —



@justinbmeyer

justinbmeyer

@tobie @rem Although useful without values, for me, a promise is less about work and callbacks, and more about getting a value.

5 minutes ago via web



Favorite



Retweet



Reply

```
var jqXHR = $.ajax({  
    url: 'foo.json',  
    dataType: 'json',  
    context: document.body  
});
```

```
// much later in the code
```

```
jqXHR.done(success);
```

```
.done(ok)      // success  
.fail(fail)    // error  
.always(fn)    // complete  
.then(ok, fail)
```

Plugins



What's a plugin?

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

```
$ ( ' u1 ' ) . myPlugin ( )
```

Plugin design in 6 steps

Step 1:

**create a private
scope for \$ alias**

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

Step 2:

**attach plugin to fn
alias (aka prototype)**

```
<!DOCTYPE html><html><body>
<script src="jquery.js"></script>
<script>
(function ($) {
$.fn.notHate = function () {
    $(this).text(
        $(this).text().replace(/hate/g, 'love')
    );
}; // end of plugin
})(jQuery);
</script></body></html>
```

```
<!DOCTYPE html><html><body>
<p>I hate jQuery!</p>
<script src="jquery.js"></script>
<script>
(function ($) {
$.fn.notHate = function () {
    $(this).text(
        $(this).text().replace(/hate/g, 'love')
    );
}; // end of plugin
})(jQuery);

$('p').notHate();
</script></body></html>
```


Step 3:

add implicit iteration

```
<!DOCTYPE html><html><body>
<p>I hate jQuery!</p>
<p>I mean really hate jQuery!</p>
<script src="jquery.js"></script>
<script>
(function ($) {
$.fn.notHate = function () {
    this.each(function () {
        $(this).text(
            $(this).text().replace(/hate/g, 'love')
        );
    });
}; // end of plugin
})(jQuery);

$('p').notHate();
</script></body></html>
```

Step 4:

enable chaining

```
<!DOCTYPE html><html><body>
<p>I hate jQuery!</p>
<p>I mean really hate jQuery!</p>
<script src="jquery.js"></script>
<script>
(function ($) {
$.fn.notHate = function () {
    return this.each(function () {
        $(this).text(
            $(this).text().replace(/hate/g, 'love')
        );
    });
}; // end of plugin
})(jQuery);

$('p').notHate().hide();
</script></body></html>
```

```
<!DOCTYPE html><html><body>
<p>I hate jQuery!</p>
<p>I mean really hate jQuery!</p>
<script src="jquery.js"></script>
```

this == jQuery

```
$.fn.notHate = function () {
    return this.each(function () {
        $(this).text(
            $(this).text().replace(/hate/g, 'love')
        );
    });
}; // end of plugin
})(jQuery);

$('p').notHate().hide();
</script></body></html>
```

```
<!DOCTYPE html><html><body>
<p>I hate jQuery!</p>
<p>I mean really hate jQuery!</p>
<script src="jquery.js"></script>
```

this == jQuery

```
$.fn.notHate = function () {
    return this.each(function () {
        $(this).text(
            $(this).text().replace(/hate/g, 'love')
        );
    });
}; // e
})(jQuery);
```

this == DOM element

```
$('p').notHate().hide();
</script></body></html>
```

Step 5:

add default options


```
<!DOCTYPE html><html><body>
<p>I hate jQuery!</p>
<p>I mean really hate jQuery!</p>
<script src="jquery.js"></script>
<script>
(function ($) {
$.fn.notHate = function () {
    return this.each(function () {
        $(this).text(
            $(this).text().replace(/hate/g,
                ➡ $.fn.notHate.defaults.text)
        );
    });
}; // end of plugin
$.fn.notHate.defaults = {text: 'love'};
})(jQuery);

$('p').notHate();
</script></body></html>
```

Step 6:

add custom options

```
<!DOCTYPE html><html><body>
<p>I hate jQuery!</p>
<p>I mean really hate jQuery!</p>
<script src="jquery.js"></script>
<script>
(function ($) {
$.fn.notHate = function () {
    return this.each(function () {
        $(this).text(
            $(this).text().replace(/hate/g,
                ➡ $.fn.notHate.defaults.text)
        );
    });
}; // end of plugin
$.fn.notHate.defaults = {text: 'love'};
})(jQuery);

$('p').notHate({text: 'love-love-love'});
</script></body></html>
```

```
<!DOCTYPE html><html><body>
<p>I hate jQuery!</p>
<p>I mean really hate jQuery!</p>
<script src="jquery.js"></script>
<script>
(function ($) {
$.fn.notHate = function (options) {
    return this.each(function () {
        $(this).text(
            $(this).text().replace(/hate/g,
                ➡ $.fn.notHate.defaults.text)
        );
    });
}; // end of plugin
$.fn.notHate.defaults = {text: 'love'};
})(jQuery);

$('p').notHate({text: 'love-love-love'});
</script></body></html>
```

```
<!DOCTYPE html><html><body>
<p>I hate jQuery!</p>
<p>I mean really hate jQuery!</p>
<script src="jquery.js"></script>
<script>
(function ($) {
$.fn.notHate = function (options) {
    var settings = $.extend({},
        ➡ $.fn.notHate.defaults, options);

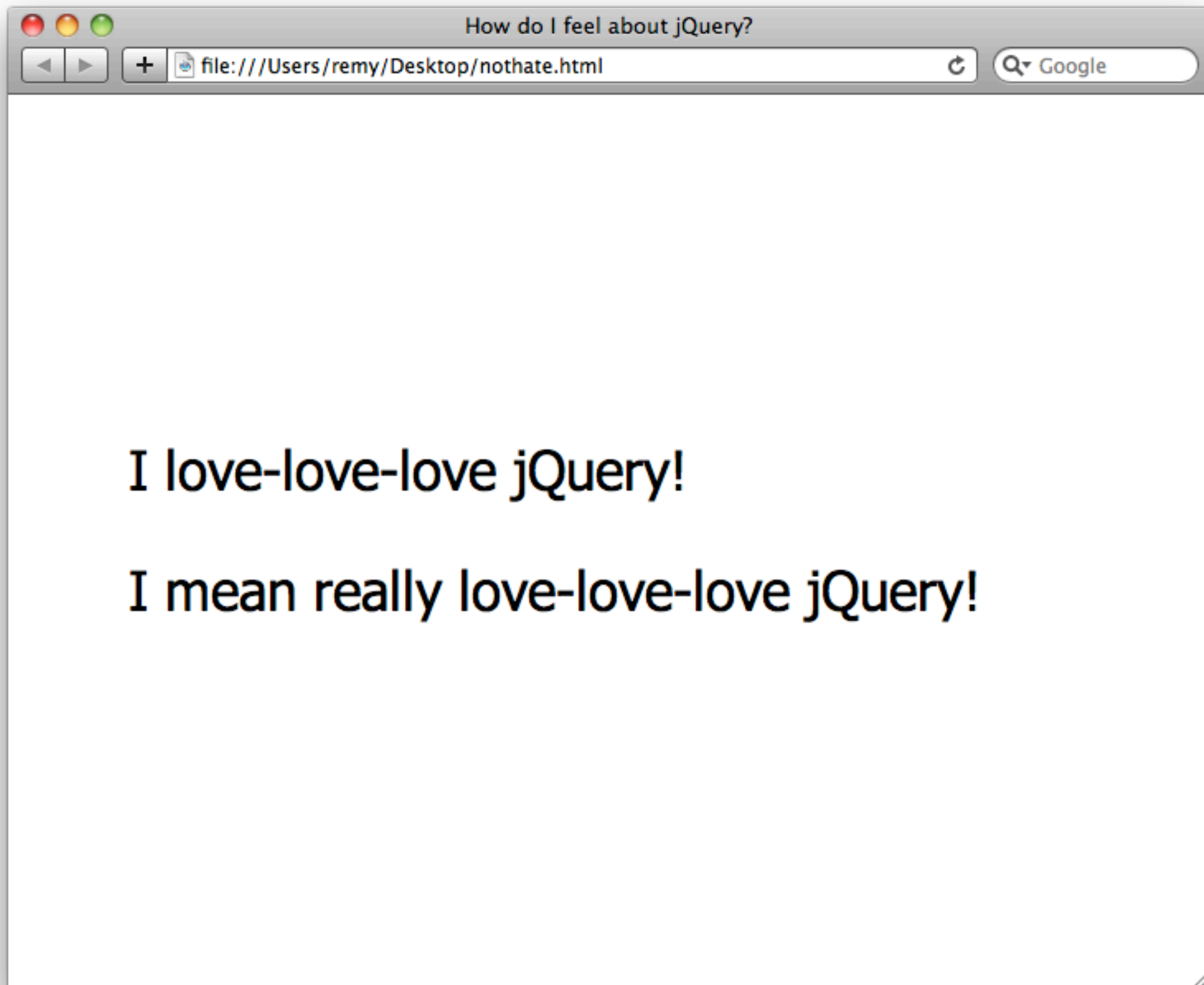
    return this.each(function () {
        $(this).text(
            $(this).text().replace(/hate/g,
                ➡ $.fn.notHate.defaults.text)
        );
    });
}; // end of plugin
$.fn.notHate.defaults = {text: 'love'};
})(jQuery);

$('p').notHate({text: 'love-love-love'});
</script></body></html>
```

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<!DOCTYPE html><html><body>
<p>I hate jQuery!</p>
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<script src="jquery.js"></script>
<script>
(function ($) {
$.fn.notHate = function (options) {
    var settings = $.extend({},
        ➡ $.fn.notHate.defaults, options);

    return this.each(function () {
        $(this).text(
            $(this).text().replace(/hate/g,
                ➡ settings.text)
        );
    });
}; // end of plugin
$.fn.notHate.defaults = {text: 'love'};
})(jQuery);

$('p').notHate({text: 'love-love-love'});
</script></body></html>
```




```
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<p>I hate jQuery!</p>
<p>I mean really hate jQuery!</p>
<script src="jquery.js"></script>
<script>
(function ($) {
$.fn.notHate = function (options) {
    var settings = $.extend({},
        ➡ $.fn.notHate.defaults, options);

    return this.each(function () {
        $(this).text(
            $(this).text().replace(/hate/g,
                ➡ settings.text)
        );
    });
}; // end of plugin
$.fn.notHate.defaults = {text: 'love'};
})(jQuery);

$('p').notHate({text: 'love-love-love'});
</script></body></html>
```

```
<!DOCTYPE html><html><body>
<p>I hate jQuery!</p>
<p>I mean really hate jQuery!</p>
<script src="jquery.js"></script>
<script>
(function ($) {
$.fn.notHate = function (options) {
    var settings = $.extend({},
        ➡ $.fn.notHate.defaults, options);

    return this.text(function (i, text) {
        return text.replace(/hate/g,
            ➡ settings.text);
    });
}; // end of plugin
$.fn.notHate.defaults = {text: 'love'};
})(jQuery);

$('p').notHate({text: 'love-love-love'});
</script></body></html>
```

**Poorly
designed
plugins**

```
$.fn.myplugin = function () {  
    var me = $(this).each(function() {  
        return $(this).bind('someEvent', function () {  
            // does something  
        });  
    });  
  
    return me;  
};
```

```
$.fn.myplugin = function () {  
    var me = $(this).each(fn);  
  
    return me;  
};
```

```
$.fn.myplugin = function () {  
    return $(this).each(fn);  
};
```

```
$.fn.myplugin = function () {  
    return $(this).each(function() {  
        return $(this).bind('someEvent', function () {  
            // does something  
        });  
    });  
};
```

```
$.fn.myplugin = function () {  
  return $(this).each(function() {  
    return $(this).bind('someEvent', function () {  
      // does something  
    });  
  });  
};
```



```
$.fn.myplugin = function () {  
  return this.each(function() {  
    return $(this).bind('someEvent', function () {  
      // does something  
    });  
  });  
};
```

```
$.fn.myplugin = function () {  
    return this.each(function() {  
        return $(this).bind('someEvent', function () {  
            // does something  
        });  
    });  
};
```

```
$.fn.myplugin = function () {  
  return this.each(function() {  
    $(this).bind('someEvent', function () {  
      // does something  
    });  
  });  
};
```

```
$.fn.myplugin = function () {  
  return this.each(function() {  
    $(this).bind('someEvent', function () {  
      // does something  
    });  
  });  
};
```

```
$.fn.myplugin = function () {  
    return this.bind('someEvent', function () {  
        // does something  
    });  
};
```

```
(function ($) {  
    $.fn.myplugin = function () {  
        return this.bind('someEvent', function () {  
            // does something  
        });  
    };  
})(jQuery);
```

Questions?

To contact me after my presentation
– text **NHT** to INTRO (46876)

Or --

remy@leftlogic.com
@rem