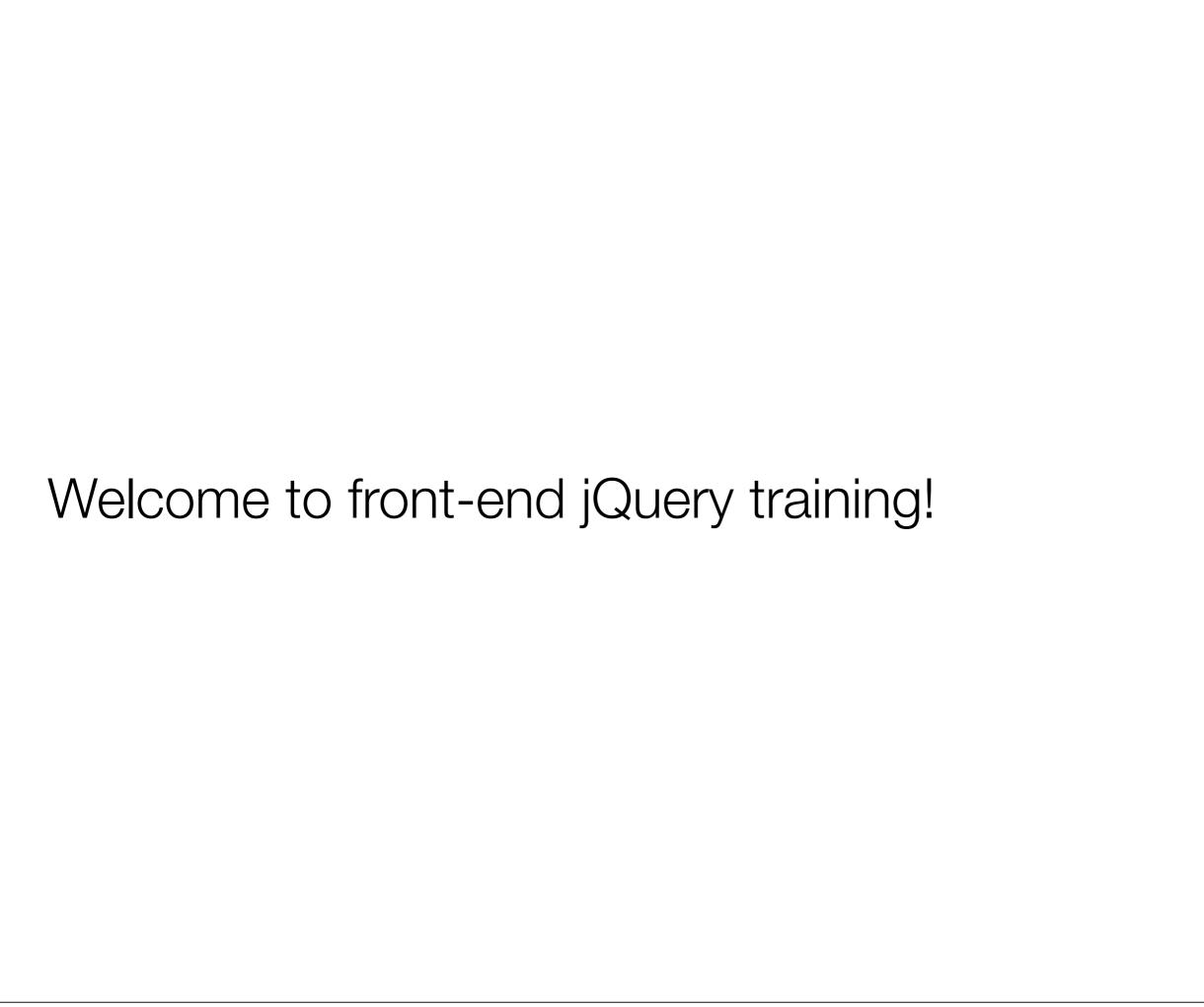


jQuery hands on-Lab

andrew wirick & Jonathan Sharp

appendTo()

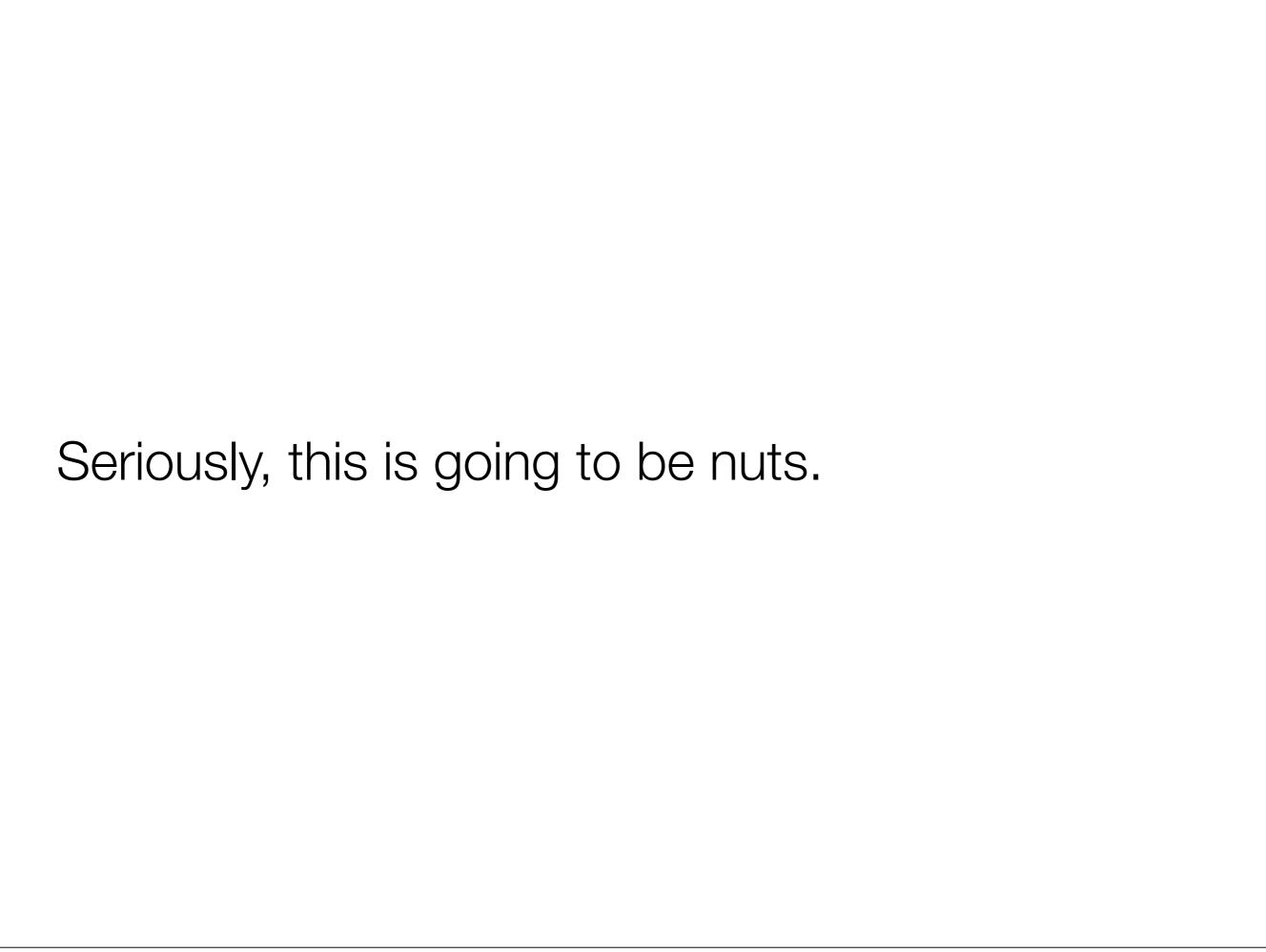


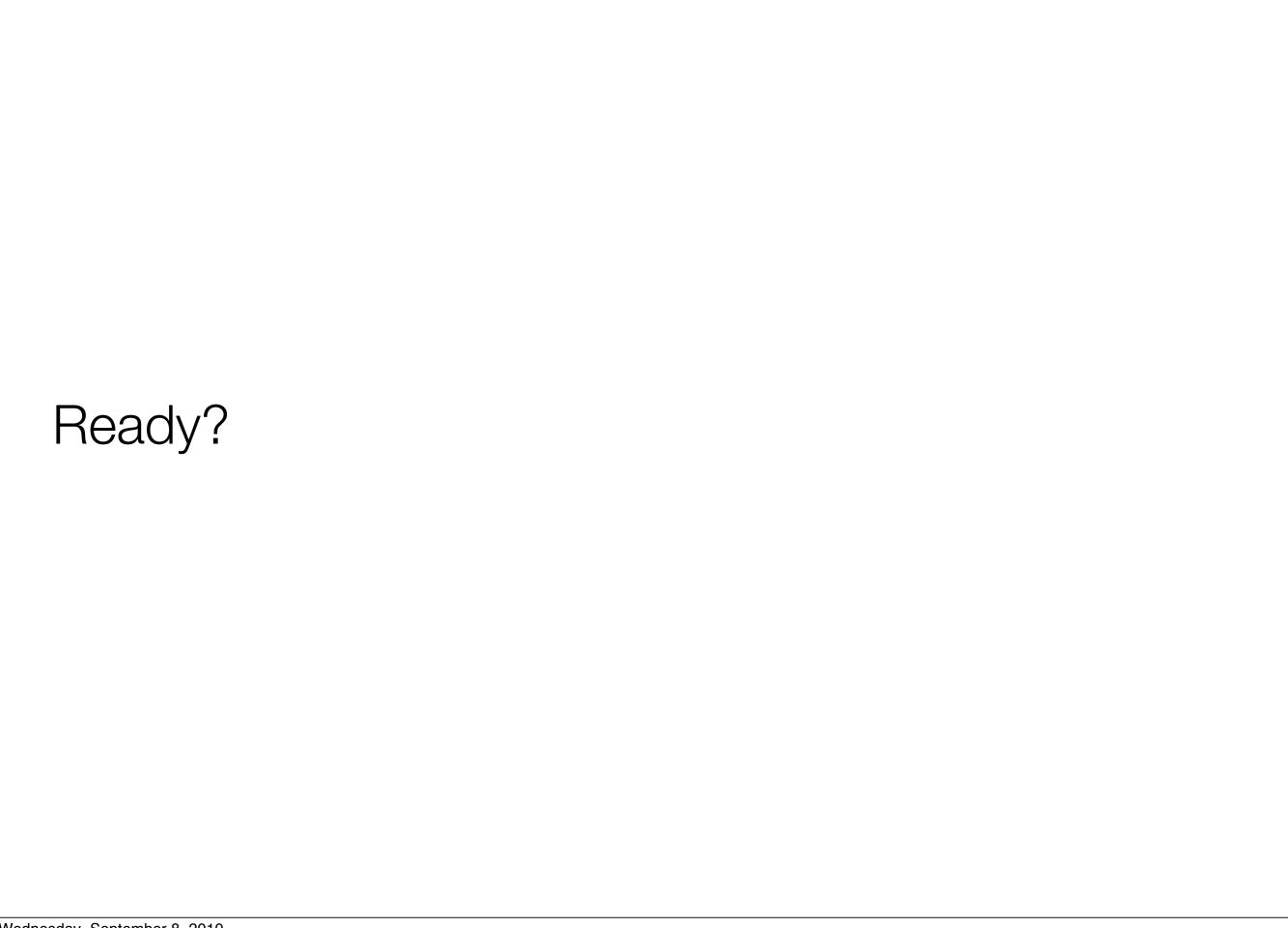
What can we expect today?

A ridiculous amount of information.

jQuery Basics
DOM Manipulation
Chaining
Events
Ajax
UI
Advanced Concepts







```
//jQuery.fn.live
function (type, data, fn) {
    if (jQuery.isFunction(data)) {
        fn = data;
        data = undefined;
    jQuery(this.context).bind(liveConvert(type, this.selector), {
        data: data,
        selector: this.selector,
        live: type
    },
    fn);
    return this;
```

Who we are



appendTo - The jQuery Company

Front-end training, consulting, and support services

We make any front-end rock - and we leave your team with the tools to continue to move forward



jQuery

jQuery Project - jquery.org (Software Freedom Conservancy)

jQuery Core

jquery.com

jQuery UI

jqueryUI.com

Sizzle |S

sizzlejs.com

QUnit

qunitjs.com

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jquery.com Downloading

api.jquery.com Documentation

forum.jquery.com Community

meetups.jquery.com Local Community

plugins.jquery.com Extending

jqueryui.com UI Widgets and Effects



- Download
 - jQuery.com
- Locations
- Self hosted Download and include in your project
 - CDN Google, Microsoft, jQuery
- Forms
 - Source vs. Minified



How to start with jQuery

- Most of the time, jQuery starts with a selection
 - A selection is DOM elements
 - A selection uses CSS selectors syntax
 - Note: 90% of the time, it uses CSS selectors every time

How to start with jQuery

```
<div class="myClass foo bar"></div>
<div class="baz myClass"></div>
<div class="bar"></div>

//...
$('.myClass')

//...
<div class="myClass foo bar"></div>
<div class="baz myClass"></div>
<div class="baz myClass"></div>
<div class="bar"></div></div</pre>
```

Starting with jQuery - selections

```
Select by tag:
<l
Apple
Pear
$("li");
http://play.appendto.com/selectors-compound-1/2/edit
```

Starting with jQuery - selections

- There are 7,167 selection combinations
- You can find them all on http://api.jquery.com/category/selectors/



Questions?

"If you were waiting for the opportune moment, ... that was it."



Starting with jQuery - do something

```
Apple
class="goodbye">Pear

$(".goodbye").hide();
```

Starting with jQuery - do something

```
0ne
Two
Three
// Some methods take callback functions
$('p').each(function() {
 // Operates on each p individually
 var rand;
 rand = Math.floor( Math.random() * 1 );
 if(rand > 1) {
   $(this).hide();
};
```

Starting with jQuery - do something

```
// HTML
One
Two
Three
$('p').click(function(event) {
   $(this).css('color', 'red');
});

http://play.appendto.com/otisi/edit
```



jQuery - DOM Manipulation

```
$('<div>jQuery is the bees knees</div>');

// Creates ...
<div>jQuery is the bees knees</div>
$('Hello');

// Creates ...

    Hello
```

jQuery - DOM Manipulation - add it

```
$('Hello')
    .appendTo('body');

// still selecting something (brand new), then
// doing something.
// adds the element to the end of the body

http://play.appendto.com/eyuso/2/edit
```

jQuery - DOM Manipulation - add it

```
// Before
Apple
Orange
// Attach immediately after the p
$('p').after('<img src="logo.png" />');
// After
Apple
<img src="logo.png />
Orange
<img src="logo.png />
```

jQuery - DOM Manipulation - manip methods

```
// a whole lot of methods
.before()
.after()
.prepend()
.prependTo()
.append()
.appendTo()
.wrap()
.wrapInner()
.wrapAll()
.unwrap()
```

jQuery - DOM Manipulation - editing

```
// Before
<div>
 <em>Red</em>
 <em>Green</em>
</div>
// Removing Elements Directly
$('p').empty();
// After
<div>
 </div>
```

jQuery - DOM Manipulation - editing

```
// Before
<div>
  Red 
 Green
</div>
// Removing Elements Directly
$('p').remove();
// After
<div>
</div>
```

Questions?

No stupid movie quote this time.





Take A Break!

jQuery - events

```
// Binding an event
$('a.tab').click(function(){ // <--- anonymous function!!
   // event handling code
   $(this).css('color', 'red');
});

// Binding an event
$('a.tab').mouseover(function(){
   // event handling code
   $(this).css('color', 'red');
});</pre>
```

jQuery - events

- click, dblclick, mouseover, mouseout
- mouseenter, mouseleave
- change, focus, blur
- keydown, keyup, keypress
- scroll, resize



Events bubble!

```
<div>
    >
        <a href="#">Link</a>
   </div>
$('div').click(function() {
   alert('clicked div!');
});
$('a').click(function() {
   alert('clicked!');
});
```

Events bubble!

```
<div>
   >
        <a href="#">Link</a>
   </div>
$('div').click(function() {
   alert('clicked div!');
});
$('a').click(function() {
   alert('clicked!');
});
```

Events bubble!

```
<div>
    >
        <a href="#">Link</a>
   </div>
$('div').click(function() {
   alert('clicked div!');
});
$('a').click(function() {
   alert('clicked!');
});
```

You can stop the bubbling!

```
<div>
    >
        <a href="#">Link</a>
    </div>
$('div').click(function() {
    alert('clicked div!');
});
$('a').click(function() {
    alert('clicked!');
    return false;
});
```

jQuery events - bind

```
$('div').bind('mouseover', function() {
    $(this).addClass('highlight');
});

$('div').bind('mouseout', function() {
    $(this).removeClass('highlight');
});

$('div').trigger('mouseover'); //whoa!
```

jQuery events - bind

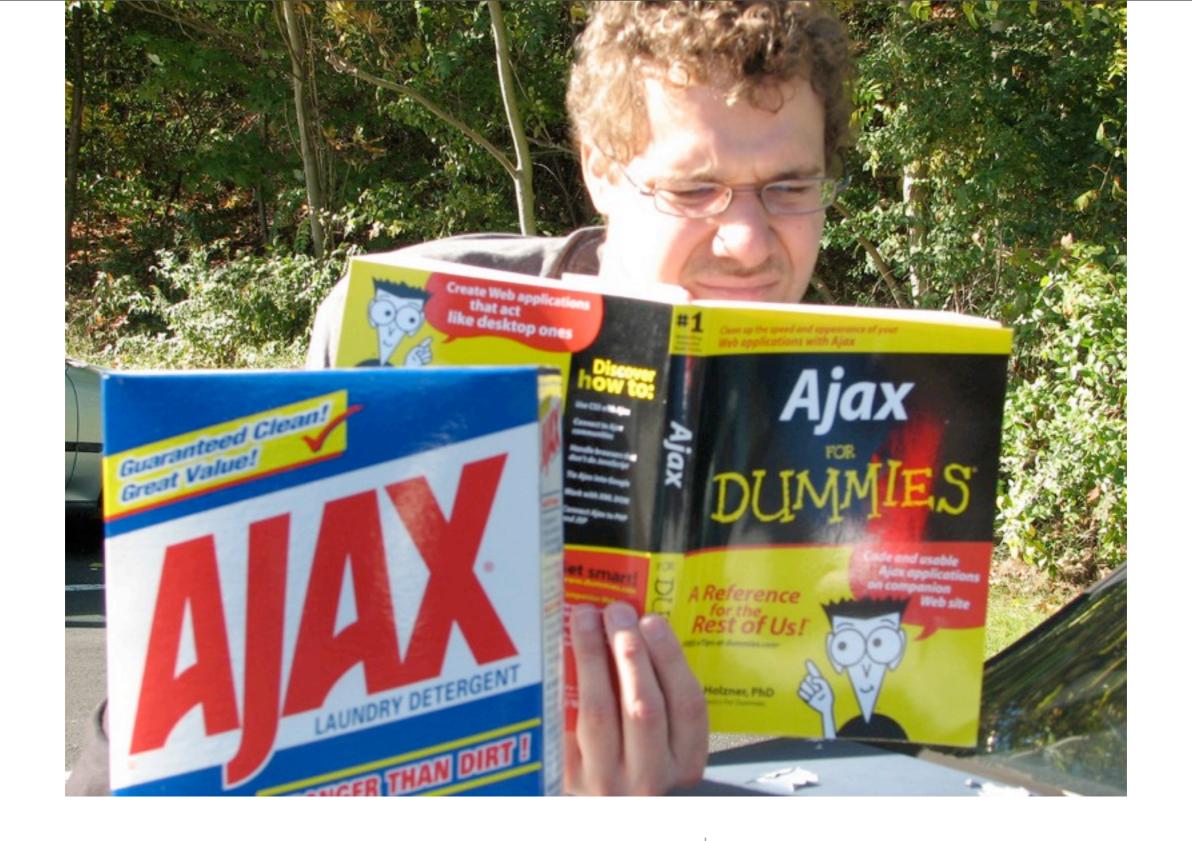
```
$('div').bind('mouseover mouseout',
  function(e) {
    if ( e.type == 'mouseover' ) {
      $(this).addClass('highlight');
   elseif ( e.type == 'mouseout' ) {
      $(this).removeClass('highlight');
//unbinding
$('div').unbind('mouseover mouseout');
```

jQuery Events - bind 'back to the future'

```
$('div').live('mouseover mouseout',
  function(e) {
    if ( e.type == 'mouseover' ) {
      $(this).addClass('highlight');
    elseif ( e.type == 'mouseout' ) {
      $(this).removeClass('highlight');
//unbinding
$('div').die('mouseover mouseout');
```



Break! (and questions)



jQuery Ajax

We go to the API! http://api.jquery.com/jQuery.Ajax

jQuery & chaining

```
$('tr:odd').addClass('odd')
    .find('td.company')
    .addClass('companyName');

$('tr:odd')
    .addClass('odd')
    .find('td.company')
    .addClass('companyName')
    .end()
```

jQuery stack architecture

chain breakers

```
//Getters vs. Setters
$(...).html('Hello world').addClass('hello')
// Non breaking

var html = $(...).html().addClass('hello')
// Breaking
```

jQuery UI

- Effects
 - Draggable, Droppable, Resizable, Selectable, Sortable
- Interactions
 - Show & Hide additions, Color Animation, Easings
- Widgets
 - Accordian, Autocomplete, Button, Datepicker, Dialog, Progressbar, Slider, Tabs



jQuery UI

- Everything is themeable!
- How easy is it to add widgets and effects



 Demo time! If I don't get this done in 5 minutes, Jonathan Sharp owes you \$50.

Labs

- Beginner
 - /share/beginner designed to enhance basic concepts from the lessons.
- Intermediate
 - /share/intermediate for those slightly familiar with jQuery.
- All-in poker players
 - build a task management app front end using jQuery best practices.

Attributions

- Trans-Mississippi Expo http://www.flickr.com/photos/smithsonian/
 2574825707/
- Swimming Polar Bear http://www.flickr.com/photos/atvance/591643822/
- Ajax http://www.flickr.com/photos/daveynin/1672745911/
- Demo fail http://www.flickr.com/photos/billselak/849328944/

