Aside: Should check out a few chapter of the older jQuery tutorial, in particular the parts about the DOM and cookies but probably one or two other chapters as well that weren't covered adequately in Allerdice's course, though likely they won't be covered in substantially greater depth in the Dori Smith class either.

# 1. OVERVIEW OF JQUERY

Works across all modern browsers...abstracts browser specific features allowing you to concentrate on design.

Focuses on manipulating page content (the DOM)

Simplifies working with modern browser event model

Adding sophisticated effects like animations and transitions

#### Common patterns

page loads: setup on response to load event

event -> retrieve content -> manipulate it -> put the content back on the page

Leverages you existing knowledge of CSS

Works with sets of elements

Performs multiple operations on a set of elements with one line of code

(known as statement chaining)

Hides browser quirks (so you can concentrate on end results).

Is extensible so you can use 3rd party plugins to perform specialized tasks or you write your own.

Compatible with modern browsers but there are/were a few known issues

DOWNLOADING AND INSTALLING JQUERY

During development use the development version if you need to debug. When you deploy use the min version for fast downloads. Functionality is same in both versions but size of min version is much smaller.

download at jquery.com

## CREATING A SIMPLE JQUERY ENABLED PAGE

```
<!DOCTYPE html>
<html>
<script>
/* without jquery we might do this to run after load is finished */
function runOnLoad() {
       alert("the page just loaded!");
window.onload = runOnLoad;
*/
</script>
<script src="js/jquery-1.9.1.js"></script>
<script>
/* we can also pass a named function
  this is considered more succinct and concise */
       $("document").ready( function () {
               alert("the page just loaded!");
       });
</script>
<head>
<meta content="text/html; charset=utf-8" http-equiv="Content-Type" />
</head>
<body>
</body>
</html>
```

### **ANONYMOUS FUNCTIONS**

See lynda.com class: Practical and Effective JavaScript

the \$("document").ready executes when the dom of the page has loaded and is ready for use rather than waiting for all page content to finish loading. Can call this same function multiple times without problem.

## OVERVIEW OF JQUERY FEATURES

- \* core functionality core functions and utilities
- \* selection and traversal finding content and navigating the content this is the query in the jQuery name!
- \* Manipulation and CSS functions for editing and changing content and working
   with CSS data such as positioning
- \* Events simplifies working with modern DOM events & provides common event helper functions
- \* Effects functions for creating basic animations and effects such as hiding and showing elements and moving objects around
- \* Ajax category utilities for working with Ajax such as loading content from pages and dealing with JSON data
- \* User Interface plugin for commonly used interface widgets like slider controls, progress bars, accordions, etc.
- \* Extensibility

Wont' be covering Ajax or Extensibility

## 2. RETRIEVING PAGE CONTENT

### OVERVIEW OF SELECTORS AND FILTERS

Selectors and filters:

jq selectors will return an array of objects that match the criteria

filters will refine the results array that the selector returns

The array that comes back is not a set of DOM elements. It is a collection of jq objects that

provide a large number of predefined functions for further operating on the objects.

You can get access to underlying DOM objects if you want but the idea is to use jq objects and functions.

## USING BASIC JQUERY SELECTORS

CSS selectors and filters are based on familiar CSS syntax, and work pretty much the same was as CSS does

```
SELECTOR PURPOSE
tagname Finds all elements that are named tagname
#id All elements with the given id
.className All elements with the given class attribute
tag.className
tag#id.className

* All elements on the page
```

Using jq selectors vs plain browser DOM

```
PLAIN
document.getElementsByTagName("p")
document.getElementById("list1")
requires a loop
requires a loop
requires a loop
$("ul .b"); // all class b within a ul element
```

The Hierarchy and Combination Selectors allow you to get more advanced

Select elements based on hierarchical relationships or on a series of common criteria

selector, selector - a comma delimited list, finds all specified selectors

.class1.class2 - all elements with both .class1 and .class2 (space delimited list)

parent>child - all child elements that are direct children of elements of type parent

ancestor descendent - all descendent elements that are contained within elements of type ancestor

prev + next - all next elements that are next to a prev element

prev ~ siblings - all siblings that come after prev and match the siblings selector

see HierCombo.html and default.html for examples of using selectors

## USING BASIC JQUERY FILTERS

Filters work together with selectors and provide even more fine-grained control over element selections.

### Six categories of filters:

- 1. Basic first, last, even numbered, odd numbered
- 2. Content whether an element contains a particular string
- 3. Visibility tests visibility settings
- 4. Attribute examines attributes of an element
- 5. Child filters selects based on relationship to a parent
- 6. Form special filters that operator on forms elements

```
FILTER
                     Only first instance in the returned set
:first
:last
                      Only last instance in the returned set
                     Only even numbered in the returned set
:even
:odd
                     Filters out elements not positioned at given index
:eq(n)
                     Includes elements past the given index
:gt(n)
:1t(n)
                     Includes elements before the given index
:header
                     All header elements (H1, H2, etc)
:animated
                     All elements being currently animated in some way
:not(selector)
                     All elements that do not match the given selector
```

see BasicFilters.html for examples

## USING JQUERY ATTRIBUTE FILTERS

Further filter results of a selector statement based on attribute content

Note: substitute the term attribute with the actual attribute, for example \$("a[href]")

FILTER PURPOSE

[attribute] Include if element has the attr

[attribute=value] Include if element has the attr and value

[attribute!=value] Include if element has the attr but not the value

[attribute^=value] Include if element has attr and value that starts with value (RE!)

[attrFilter1][attrFilterN] Include elements that match all specified attr filters in the

specified list of attr filters

see AttrFilters.html for examples

## CHILD, VISIBILITY, AND CONTENT FILTERS

CONTENT FILTER PURPOSE

:contains(text) Filters the selection to only include elements that contain the text string

:empty Only empty elements

:has(selector) Matches elements that contain at least one element that has

the specified selector

:parent Matches all elements that are parents (elements with children)

VISIBILITY FILTER

:visible Filters the selection to include only visible elements

:hidden Only hidden elements

CHILD FILTER

:nth-child(odd)

:nth-child(equation)

Note: the nth-child filters are not zero indexed,

they start at 1 for the first element

see ChildVisCount.html for examples of child, visibility, and content filters

#### FORM SELECTORS AND FILTERS

You can use form selectors to deal with form elements

They work like other selectors but start with a colon (:) like a regular filter

SELECTOR **PURPOSE** 

Finds all input, select, textarea, and button elements :input

Finds all input, select, ter Finds all text element Finds all password elements :text :password Finds all radio button elements :radio Finds all checkbox elements :checkbox :submit Finds all submit elements Finds all reset elements Finds all image elements Finds all button elements :reset :image :button :file Finds all file upload elements

You can perform addition filtering of form elements, such as whether items

are checked, selected, or enabled

**PURPOSE** SELECTOR

Matches all form elements that are enabled :enabled Matches all form elements that are disabled :disabled

Matches all form elements that are checked (radio buttons & check boxes) :checked

:selected Matches all elements that are selected

The above are convenience filters that help you select form elements that are in a certain state.

see FormSelectors.html for examples.

#### TRAVERSING DOCUMENT INFORMATION

FUNCTION/PROPERTY

size(), length The number of elements in the jQuery result set

Returns an array of all matched DOM elements. Useful if you need get()

to operate on the DOM elements themselves instead of using built-in

jQuery functions.

Access a single matched DOM element at a specified indiex in the get(index)

matched set

find(expression) Searches for descendent elements that match the specified expression

each(fn) Execute a function within the context of every matched element

see traversing.html for examples.

## JQUERY STATEMENT CHAINING

One of jQuery's most powerful features in its ability to chain multiple functions together to perform several operations in one line of code.

```
$(selector).fn1().fn2().fn3();
```

#### PRACTICAL EXAMPLE 1: ANNOTATING PAGE LINKS

We used jouery to add an icon to anchor tags whose href ends in .pdf

```
$("a[href$='.pdf']").after("<img src='images/pdf_icon_small.gif' align='absbottom' />");
see AutoPDFIcons.html for complete code
```

## 3. MANIPULATING PAGE CONTENT

## CREATING, GETTING, AND SETTING CONTENT

jQuery has functions for creating, copying, deleting, and moving content around, as well as wrapping page content in other content.

jQuery provides cross-browser support for working with CSS, including positioning and sizing information.

\* To create new HTML content, you simply pass a string containing new HTML to the \$() function:

```
var newHeader = $("<h1>My New Header</h1>");
var myStr = "<h1>My New Header</h1>";
var newHeader = $(myStr);
```

\* You can use the html() and text() methods to get and set content on elements

FUNCTION PURPOSE

html() Returns the HTML content of the first matched element

html(newcontent) Sets the HTML content of every matched element

text() Returns the text content of the first matched element

text(newtext) Sets the text content for all matched elements

If you pass html as an argument to the text function, it will automatically escape the html so that it won't work

as functional html

This section seems a bit weak but maybe it's all there is to know about creating new elements without adding them to the DOM

The more important function introduced here is the \$("") function. This section did not show many good ways to add a newly created element to the dom.

see creating.html for examples

#### MANIPULATING ATTRIBUTES

\* To inspect or change the value of attributes on elements, use jQuery's attr functions

FUNCTION PURPOSE

attr(name) Accesses property on the first match element. This method makes it

easy to retrieve a property value from the first matched element. If the element does not have an attribute with such a name, undefined is returned.

attr(properties) Sets a series of attributes on all matched elements using an object

notation syntax. This is best used for setting large numbers of

properties at once.

\$("img").attr({ src: "/image/hat.gif", title: "jQuery", alt: "jQuery Logo" });

attr(key,value) Sets a single property to a value on all matched elements

attr(key, fn) Sets a single property to a computed value, on all matched elements

Instead of supply a string value, a function is provided that computes

the value of the attribute

removeAttr(name) Removes the named attribute from all matched elements

see attributes.html for examples

### **INSERTING CONTENT**

jQuery provides several functions for inserting content into the document both before and after existing page elements.

FUNCTION PURPOSE

append(element) Appends content to the inside of every matched element

appendTo(selector) Appends all of the matched elements to another, specified, set of elements

prepend(content)
Prepends content to the inside of every matched element

prependTo(selector) Prepends all the matched elements to another, specified, set of elements

after(content) Inserts contents after each of the matched elements before(content) Inserts contents before each of the matched elements

insertAfter(selector) Inserts all of the matched elements after another, specified, set of elements insertBefore(selector)Inserts all the matched elements before another, specified, set of elements

see inserting.html for examples

### WRAPPING, REPLACING, REMOVING CONTENT

JQuery can wrap existing content in the page, replace content, copy content, and remove it.

FUNCTION PURPOSE

wrap(html) Wraps each matched element with the specified HTML content wrap(element) Wraps each matched element with the specified element

wrapAll(html) Wraps all elements in the matched set with the specified HTML content

seems to actual move all matched set elements into the same wrapper

wrapAll(element) Wraps all the elements in the matched set into a single wrapper element wrapInner(html) Wraps the inner child content of each matched element (including text nodes)

with an HTML structure

wrapInner(element) Wraps the inner child contents of each matched element (including text nodes)

with a DOM structure

replaceWith(content) Replaces all matched elements with the specified HTML or DOM elements

replaceAll(selector) Replaces the elements matched by the specified selector with the

matched elements

empty() Removes all child nodes from the set of matched elements

remove() Removes all matched elements from the DOM

clone() Clone matched DOM elements and selects the clones

clone(bool) Clone matched DOM elements, and all their event handlers, and select the clones

When we wrap with html, it looks like we should be specifying only the complete start tag.

#### WORKING WITH CSS INFORMATION

jQuery's CSS functions provide easy, cross-browser access for setting properties and working with positioning and sizing information.

The css() function allows you to retrieve and set styles for a set of matched elements

jQuery provides a set of functions for working with css classes on page elements. Classes can be easily added, removed, toggled, and detected

```
CSS FUNCTIONS

addClass(class)

Adds the specified classes to each of the set of matched elements

Returns true if the specified class is present on at least one of the set of matched elements

removeClass(class)

Removes all the specified class(es) from the set of matched elements

toggleClass(class)

Adds the specified class if it is not present, removes the specified class if it is present

toggleClass(class,switch)

Adds the specified class if the switch is true, removes the specified class if the switch is false
```

#### WORKING WITH CSS POSITIONING

```
CSS FUNCTIONS
                      PURPOSE
offset()
                     Gets the current offset of the first matched elements, in pixels, relative
                     to the document
                     Returns a jQuery collection with the positioned parent of the
offsetParent()
                     first matched element
position()
                     Gets the top and left position of an element relative to its offset parent
                     Gets the scroll top offset of the first matched element
scrollTop()
                     Sets the scroll top offset to the given value on all matched elements
scrollTop(val)
                     Gets the scroll left offset of the first matched element
scrollLeft()
scrollLeft(val)
                     Sets the scroll left offset to the given value on all matched elements
```

#### WORKING WITH CSS SIZING INFORMATION

To retrieve cross-browser sizing information for elements, use the jQuery size-related functions.

CSS FUNCTIONS PURPOSE

height() Gets the current computed, pixel, height of the first matched element

height(val) Sets the CSS height of every matched element

width() Gets the current computed pixel, width of the first matched element

width(val) Sets the CSS width of every matched element

innerHeight() Gets the inner height (excluding the order and including the padding for the

first matched element

innerWidth() Gets the inner width (excluding the border and including the padding) for the

first matched element

outerHeight(margin) Gets the outer height (includes the border and padding by default)

for the first matched element. If the margin argument is true, then

the margin values are also included.

outerWidth(margin) Gets the outer width (includes the border and padding by default) for the first

matched element. If the margin argument is true, then the margin values are

also included.

see css sizing.html for examples.

## 4. WORKING WITH EVENTS

## UNDERSTANDING THE JQUERY EVENT HANDLING FEATURES

Provides mechanism for working with events that is simpler than relying on the DOM.

Abstracts away the differences between browser implementations

Makes it easy to assign event handlers to groups of elements by using selectors and filters

Breaks down into a couple of categories

#### \* Binding/Unbinding

Allows events to be wired up and torn down in a cross browser way.

Unified Event Object

Provides an event object that exposes the most common properties in a cross-browser way

Convenience features

Provides functions that encapsulate common event features and cross-browser

helper routines

#### BINDING AND UNBINDING EVENTS

\* Events are connected to and disconnected from elements using the bind() and unbind() functions

```
$(selector).bind(event, data, handler)
$(selector).unbind(event, handler)
```

BIND() PARAMETER PURPOSE

event Defines the event that you want to be bound to for each element in the

selector's result set. Possible values are blur, focus, load, resize, scroll,

unload, beforeunload, click, dblclick, mousedown, mouseup, mousemove, mouseover, mouseout, mouseenter, mouseleave, change, select, submit,

keydown, keypress, keyup, error

data Optional. Defines a piece of data that will be passed to the handler

function when the event happens and the handler function is called.

handler Specifies the function that will handle the event. If you plan to unbind

you need to use a named function.

### UNBIND() PARAMETER

event Defines the event that you want to be disconnected for each element in

the selector's result set. If you are unbinding, you need to use

named function for the handler.

handler Specifies the handler function that was defined to handle the event

see binding.html for examples

#### CONVENIENT HELPER METHODS

Several "helper" functions can perform common event-related tasks

```
$(selector).click(fn)
$(selector).hover(fn0ver, fn0ut)
$(selector).toggle(fn1, fn2, fn3, fn4...)
```

FUNCTION PURPOSE

click(fn) Shortcut for click function handler. There are also shortcuts

for: blur, change, dblclick, error, focus, keydown, keypress, keyup,

load, mousedown, mouseenter, mouseleave, mouseout, mouseover,

mouseup, resize, scroll, select, submit, unload

hover(fnOver, fnOut) Help function for hover behavior. fnOver is the function to call when

the mouse enters, fnOut for when the mouse leaves

Note: toggle method was removed from jQuery 1.9

toggle(fn1, fn2, fn3,...) Helper function for implementing toggling behavior. jQuery will call

each function on every other click, starting with fn1, then fn2, then

fn3, etc.

see helpers.html for examples

### USING THE JQUERY EVENT OBJECT

\* Writing event-handling code is frustrating when it differs across browser

\* The jQuery event object smoothes these differences and provides a single object with the most important properties

Most common functions:

PROPERTY PURPOSE

pageX, pageY Coordinates of mouse when event happended, relative to document

result Value returned by the last handler function

timestamp Time when event occurred

METHOD PURPOSE

preventDefault()
Prevents the browser from executing the default action

isDefaultPrevented() Returns whether preventDefault() was ever called on this object

stopPropagation() Stops the bubbling of an event to parent elements

isPropagationStopped() Returns whether stopPropagation() was ever called on this object

see eventobj.html for examples

## MISCELLANEOUS JQUERY EVENT FUNCTIONS

\* For a couple of specialized tasks, jQuery provides some miscellaneous functions

\$(selector).one(type, data, handler)
\$(selector).trigger(event, data)
\$(selector).triggerHandler(event, data)

FUNCTION PURPOSE

one(type, data, handler) Works the same as bind(), but the event handler is only ever

executed one time for each matched element

trigger(event, data) Triggers an event on every matched element. This will also

cause the default action of the browser to be executed. For example, passing 'click' to the trigger function will also cause the browser to act as though the item were clicked

triggerHandler(event, data) Triggers all bound event handlers on an element (for a specific

event type) without executing the browser's default actions, bubbling, or live events. Only works on the first matched

element in the result set for selector.

see miscevents.html for example

### PRACTICAL EXAMPLE 3: TABLE STRIPING AND HIGHLIGHTING

see miscevents.html. I'm pretty sure this could have been done just with css.

## 5. JOUERY ANIMATION AND EFFECTS

#### HIDING AND SHOWING ELEMENTS

\* jQuery library supplies some basic animation and effects functions that perform common visual effects

Showing and hiding elements

Fading elements in and out

Moving elements around on the screen

\* You can use the basic animation function to easily build your own animation effects

Showing/hiding elements is simple and can be done immediately or over a specified duration of time

**FUNCTION PURPOSE** 

Displays each of the set of matched elements, if they are hidden show() show(speed, callback) Shows all matched elements using a graceful animation. Fires an

optional callback after completion.

Hides each of the set of matched elements if they are shown. hide() hide(speed, callback)

Hides all matched elements using graceful animation. Fires an

optional callback after completion.

Toggles displaying each of the set of matched elements toggle()

Toggles displaying each of the set of matched elements based upon toggle(switch)

the switch (true shows all elements, false hides all elements)

toggle(speed, callback) Toggles displaying each of the set of matched elements using a

graceful animation and firing an optional callback after completion

speed can be slow, normal, fast or a number in milliseconds.

#### FADING ELEMENTS IN AND OUT

- Elements can be faded in or out completely or to a predetermined opacity level.
- The speed of the face can be specified as either a string ("slow", "normal", "fast") or a millisecond duration

fadeIn(speed, callback) - fades all matched elements by adjusting their opacity and firing an optional callback when finished

fadeOut(speed, callback)

fadeTo(speed, opacity, callback) - opacity 0 = invisble, 1 = totally opaque (not faded)

see faceeffect.html for examples

#### SLIDING PAGE ELEMENTS

- The sliding effects is another way to reveal page elements in jQuery
- ¡Query provides functions for sliding elements up or down, as well as toggling the slide animation

**FUNCTION** PURPOSE

slideDown(speed, callback) Reveals all matched elements by adjusting their height and

firing an optional callback after completion

slideUp(speed, callback) Hides all (as above)

```
slideToggle(speed, callback) Toggles all (as above)
"slow", "normal", "fast", number of milliseconds
see sliding.html for example
```

#### CREATING CUSTOM ANIMATIONS

\* To create custom animation for many properties on page elements, call the aminate() function

\* To stop animations in progress, call the stop() function

FUNCTION PURPOSE

animate(params, duration, Creates a custom animation

easing, callback) params: The properties on the elements to animate

duration: "slow" "normal" "fast"

easing: The type of easing: linear or swing

callback: optional callback function on completion

animate(params, options) Creates a custom animation

params: The properties to animate

options: Set of options for the animation to take

Note: Options were not explained and I couldn't find them in the jQuery online documentation for the animate function

stop() Stops all the currently running animations on all the specified elements

see animating.html for examples

## PRACTICAL EXAMPLE 4: IMAGE ROTATOR

Uses a timer function to cycle through images. Pile images one on top of another. Displays each one for 2 seconds, fades the top one for one second. Pulls the next image to the top by changing its class and its z-index. Uses a class selector to find the current image. Uses the next() method to find the next image. Checks to see if at end of child divs by getting the length of the next() image. If the length is zero, begins at the top of the list of divs by using the div:first selector. Fades the image by animating the opacity

see imagerotator.html for complete code.

## 6. USING THE JQUERY UI PLUG-IN

## INTRODUCTION TO JQUERY UI

### **INTERACTIONS**

Draggable

Droppable

Resizable

Selectable

Sortable

#### **WIDGETS**

Accordion

Datapicker

Progressbar

Dialog

Slider

Tabs

#### **EFFECTS**

Add Class

Remove Class

Toggle Class

Switch Class

Hide

Show

Toggle

**Color Animation** 

### **EXPLORING THE UI WIDGETS**

#### Accordion

collapse content - can click the open panel to collapse it without opening another panel customize icons - use custom icons on accordion tabs fill space - resizes to fit size of outer container no auto height - sizes each tab to fit content open on hoverintent - opens tabs on hover sortable - drag and drop reordering of tabs

#### Datepicker

Animation

Dates in other months (first and last weeks)

Display button bar

Display inline

Display month & year menus

Display multiple months

Format date

Icon trigger

Localize calendar Populate alternate field Restrict date range select a date range show week of the year

## Dialog

Animation
Basic Model
Modal confirmation
Modal form
Modal message

### Progress Bar

Custom label Indeterminate value

Colorpicker

#### Slider Bar

Multiple sliders
Range slider
Range with fixed maximum
Range with fixed minimum
Slider bound to select
Slider scrollbar
Snap to increments
Vertical range slider
Vertical slider

#### Tabs

Collapse content (similar to Jerome's registration and login dropdowns)
Content via Ajax
Open on mouseover
Simple manipulation
Sortable
Tabs at bottom
Vertical Tabs functionality

## EXPLORING THE JQUERY UI EFFECTS

jQueryUI offers the following UI effect categories that supplement jQuery's basic functionality.

#### Add Class

Adds class(es) to elements while animating all style changes.

### **Color Animation**

Animate the properties of elements between colors.

#### Effect

Apply an animation effect to an element Blind, Bounce, Clip, Drop, etc.

#### Hide

Hide elements using custom effects. Blind, Bounce, Clip, Drop, etc.

#### Remove Class

Removes class(es) from elements while animating all style changes.

#### Show

Display elements using custom effects.

#### Switch Class

Add and remove class(es) to elements while animating all style changes.

### Toggle

Display or hide elements using custom effects.

#### Toggle Class

Toggle class(es) on elements while animating all style changes.

Many of the effects allow a setting for easing. There are quite a few choices for an easing effect

linear swing easeOutBounce easeInOutQuad easeOutExpo and more... http://api.jqueryui.com/easings/

## USING THE JQUERY UI THEMEROLLER

#### Build a theme

Roll your own: uses a starting point based on your last selection from the gallery

Gallery - prebuilt themes

Download CSS styles & images by clicking on a button

### DOWNLOADING AND INSTALLING JQUERY UI

Can build a custom download

## **PUTTING IT ALL TOGETHER**

To illustrate how several of the features we've learned work in a real site, we'll take a site that was built without jquery and update it with some new features.

The accordion control

By default, uses link tag as it's header and paragraph as its content. We can change it by passing an argument to the constructor(?). Other options are available \$("element").accordion( { header: "h4" });

The image selector:

```
$("a:has(img.gallery)").click( function () {
    var largePath = $(this).attr("href");
    var caption = $(this).attr("title");
    $("#photo_large").attr( { src: largePath } );
    $("#caption1").text(caption);
    return false;
});
```

We're assigning the click on the a:has(img.gallery) elements - I don't know why he used :has

(:has matches elements that contain at least one element that has the specified selector) -

to do the following:

```
assign largePath value from the link's href attribute which contains the pathname of the image assign caption the value from the link's title attribute which contains a description of the image change the src attribute value of the large display image to the value in var largePath change the text of the paragraph element that we are using as a caption for the large image to the value in var caption return false to prevent the link from performing it's default function, which would be opening the link.
```

A big lesson here is to return false when you want to prevent the link from performing it's default action after executing the function.

Good code, I think.

#### RESIZABLE

This part was weird. Maybe textarea elements weren't resizable when this movie was made.

I tried to fix it a little bit to compensate.

```
$(function() {
    var maxw = $("#commentsSection").width();
    var minw = maxw;
    var minh = $("#comments").height();
    $("#commentsSection").resizable({maxWidth: maxw});
    $("#comments").resizable({maxWidth: maxw-10, minHeight: minh, minWidth: minw} );
});
```

There were no references to \$("#comments") in the code presented in the movie, just to \$("#commentsSection").

The code makes both the container div and the textarea inside it resizable with constraints. Some of the constraints were read from the commentsSection div element's underlying css.