



## JavaScript and jQuery Course

Class 14

1

## Plugins

- ▶ Extend the functionality of jQuery
- ▶ Prewritten jQuery code that add features for almost any conceivable task
- ▶ Some are part of the jQuery Organization
- ▶ Some are written by the community

▶ 2

## Plugins - Types

- ▶ displaying images
- ▶ slideshows, carousels, galleries
- ▶ menus, navigation
- ▶ tool tips
- ▶ forms / validation

▶ 3

## Plugins – Where to find

- ▶ <http://plugins.jquery.com>



Site name	URL
jQuery Plugin Registry	<a href="http://plugins.jquery.com">http://plugins.jquery.com</a>
jQuery Plugins	<a href="http://jquery-plugins.net">http://jquery-plugins.net</a>
Google Code	<a href="http://code.google.com">http://code.google.com</a>
GitHub	<a href="https://github.com">https://github.com</a>
Sourceforge	<a href="http://sourceforge.net">http://sourceforge.net</a>

- ▶ **Many have a demo, sample code, and tutorial**

▶ 4

## Plugins – Popular

Site name	URL
Lightbox	<a href="http://loleshdhakar.com/projects/lightbox2/">http://loleshdhakar.com/projects/lightbox2/</a>
Fancybox	<a href="http://fancybox.net">http://fancybox.net</a>
ThickBox	<a href="http://codylindley.com/thickbox/">http://codylindley.com/thickbox/</a>
ColorBox	<a href="http://www.jacklmoore.com/colorbox">http://www.jacklmoore.com/colorbox</a>

Site name	URL
bxSlider	<a href="http://bxslider.com">http://bxslider.com</a>
Malsup jQuery Cycle 2	<a href="http://jquery.malsup.com/cycle2">http://jquery.malsup.com/cycle2</a>
jCarousel	<a href="http://sorgalla.com/jcarousel">http://sorgalla.com/jcarousel</a>

► 5

## Plugins – How to Add

- Download the plugin code
- Include the jQuery core library to run
- Include the JS file with an HTML script tag
- The plugin script tag must appear **after** the jQuery library script tag

► 6

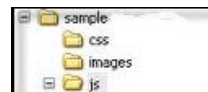
## Plugins – How to Add

- Some plugins may contain **multiple JS files**
- Make sure that the “.js” file is in the same folder as the html file or that the **path is correct** if you are using a folder structure

► 7

## Plugins – How to Add

- Plugins commonly come with demo code
- Can be customized – variables / methods
- Commonly use a **JS folder**, a **CSS folder**, and an **images folder** if needed



► 8

## jQuery UI (User Interface)

- ▶ Extends the jQuery library
- ▶ Provides themes, widgets, interactions, and effects
- ▶ The core jQuery UI component (library) is always required in addition to the jQuery code for the components

▶ 9

## jQuery UI

- ▶ <http://jqueryui.com>



- ▶ Many have a demo, sample code, and tutorial

▶ 10

## jQuery UI – Types of Components

- ▶ **Themes**
  - CSS themes for the components
- ▶ **Widgets** - accordions, tabs, slider, date picker
  - self contained
- ▶ **Interactions** - drag, drop, resize, sort
  - can be applied to any HTML element
- ▶ **Effects** - color animations, transitions, bounce, explode, fade, slide
  - can be used with a widget or interaction

▶ 11

## jQuery UI – How to use

- ▶ [jqueryui.com/download](http://jqueryui.com/download)



- ▶ Unlike downloading a plugin, you must first 'build' the jQuery UI download at the Download Builder page

▶ 12

## jQuery UI – Download Example

Name	Type	Size	Date modified
external	File folder		12/8/2016 11:39 AM
images	File folder		12/8/2016 11:39 AM
index.html	Chrome HTML Document	32 KB	9/14/2016 6:34 PM
jquery-ui.css	Cascading Style Sheet Document	37 KB	9/14/2016 6:34 PM
jquery-ui.js	JScript Script File	509 KB	9/14/2016 6:34 PM
jquery-ui.min.css	Cascading Style Sheet Document	32 KB	9/14/2016 6:34 PM
jquery-ui.min.js	JScript Script File	248 KB	9/14/2016 6:34 PM

▶ 13

## jQuery UI – Code Example

```
<link rel="stylesheet"
href="/jquery-ui-1.12.1/jquery-ui.min.css">
```

```
<script src="http://code.jquery.com/jquery-
3.1.1.min.js">
</script>
```

```
<script src="/jquery-ui-1.12.1/jquery-ui.min.js">
</script>
```

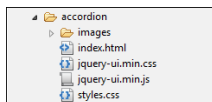
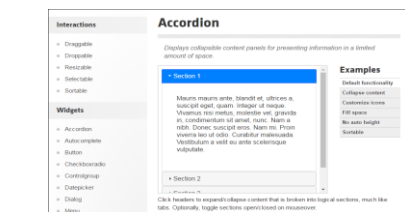
```
<script>
```

```
$(document).ready(function(){
    $("selector").UI_method({
        // option settings
    });
});
```

```
</script>
```

▶ 14

## jQuery UI – Accordion Example



```
$(document).ready(function(){
    $("selector").UI_method({
        // option settings
    });
});
```

▶ 15

## jQuery UI – Accordion Example

```
<div id="accordion">
  <h3>What is jQuery?</h3>
  <div><!-- the content for the panel --></div>

  <h3>Why is jQuery becoming so popular?</h3>
  <div><!-- the content for the panel --></div>

  <h3>Which is harder to learn: jQuery or JavaScript?
  </h3>
  <div><!-- the content for the panel --></div>
</div>
```

```
$(document).ready(function(){
    $("#accordion").accordion({
        // option settings
    });
});
```

▶ 16

## jQuery UI ThemeRoller

► <http://jqueryui.com/themeroller/>



► 17

## jQuery UI ThemeRoller

- Powerful theming engine
- Create a theme for your website
- Select different colors, fonts, drop shadows, etc. to match your website
- Use 24 preset themes

► 18