

Web Development

Lecture 15

JQuery 3 - UI Library

<http://jquery.com/>
<http://jqueryui.com/home>

jQuery User Interface Library

This is a different library that must be downloaded separately to the standard jQuery library.

It provides more sophisticated effects and widgets, which you can use on your webpage.

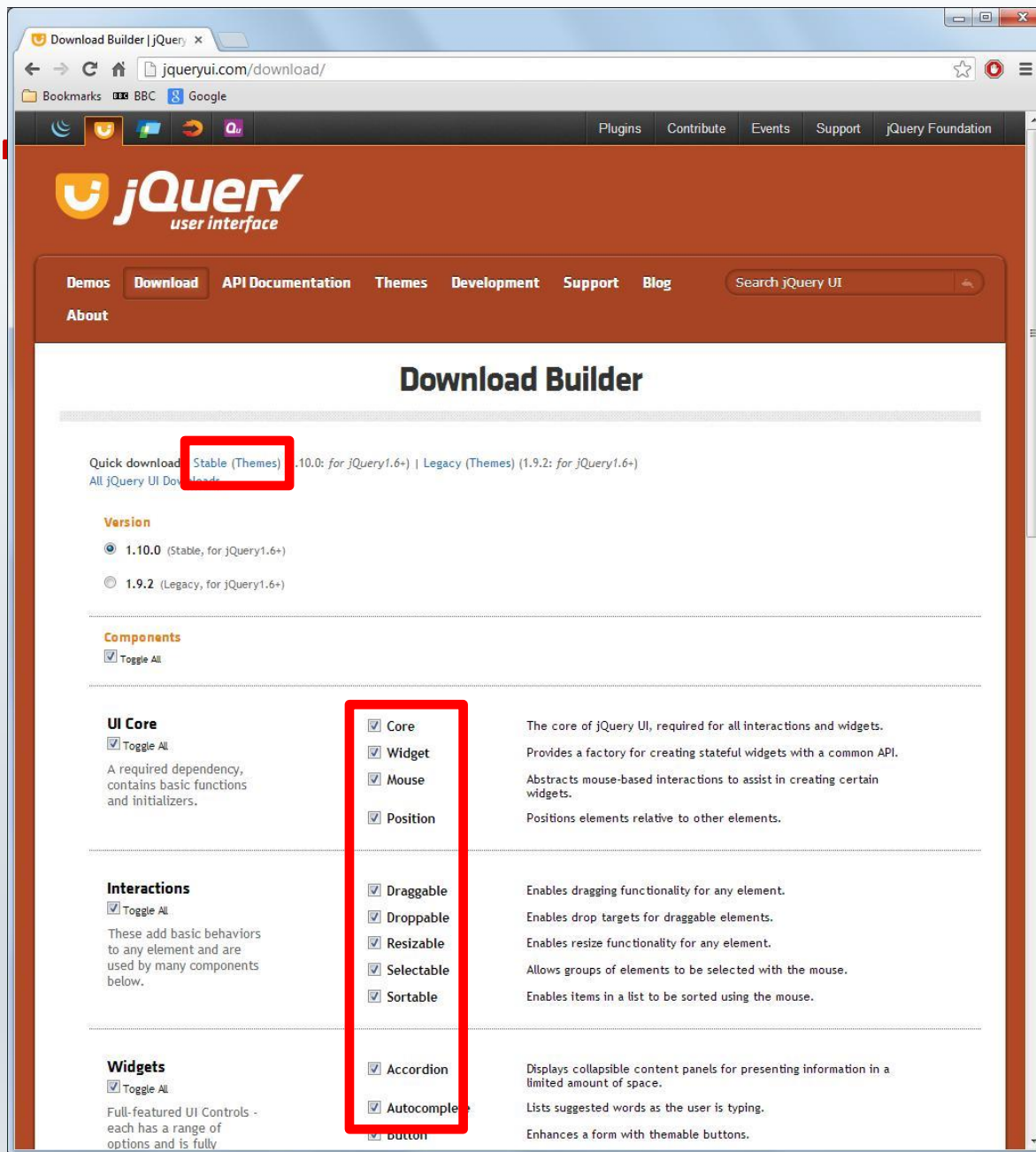
http://jquery.com



Click on UI tab on main website

http://jqueryui.com



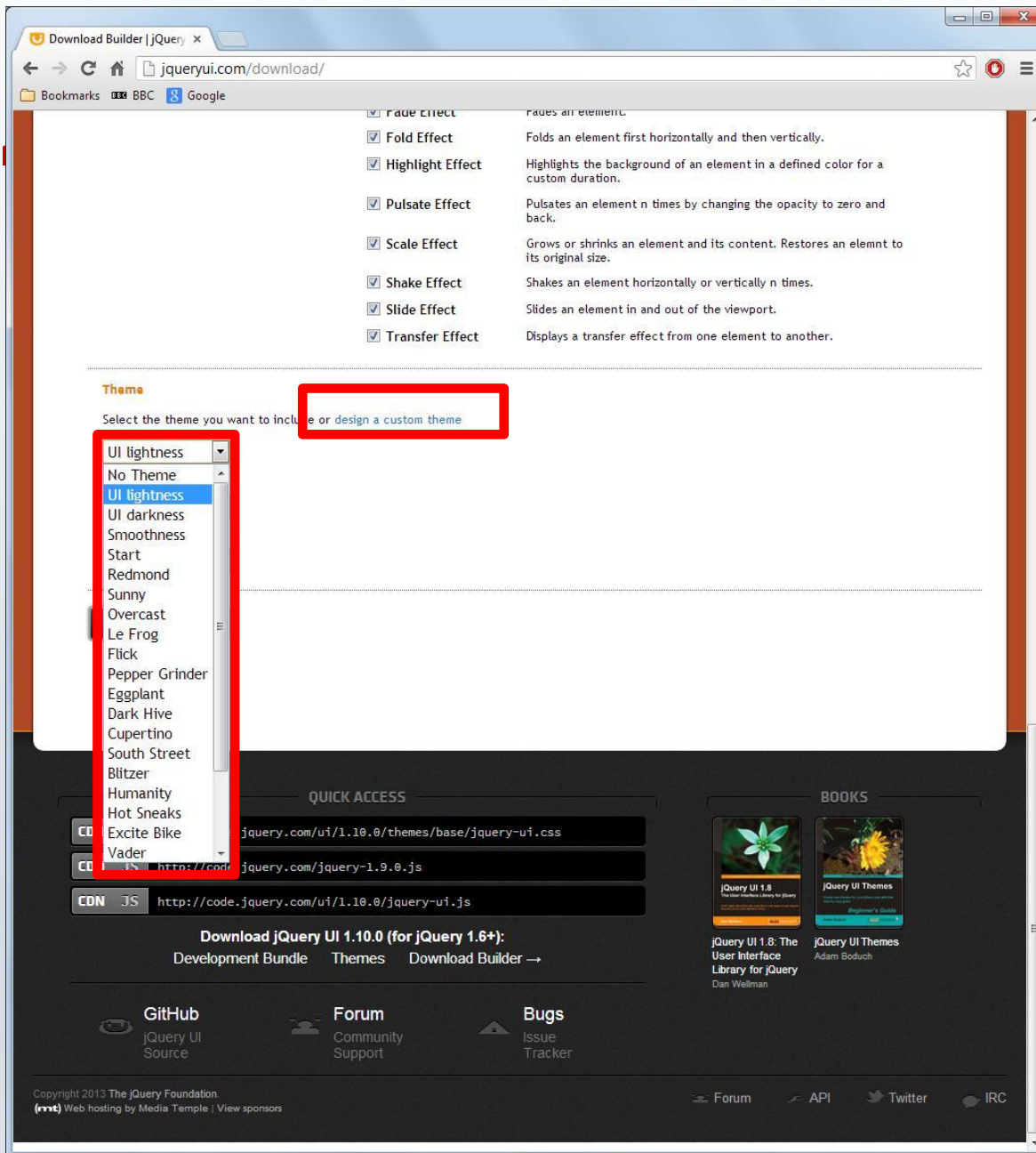


You can download the entire UI library.

Or

You can choose which of the effects and widgets you wish to include in your download.

You can also choose a colour theme for the widgets.



There are a number of predefined themes that you can choose from.

Or you can create your own customised theme.

[Demos](#)[Download](#)[API Documentation](#)[Themes](#)[Development](#)[Support](#)[Blog](#)[About](#)

ThemeRoller

ThemeRoller

[Roll Your Own](#)[Gallery](#)[Help](#)

[Download theme](#)

Font Settings

Family

Weight

Size

Corner Radius

Header/Toolbar

Background color & texture

%

Border

Text

Icon

Content

Clickable: default state

Clickable: hover state

Clickable: active state

Highlight

Error

Modal Screen for Overlays

Drop Shadows

☐ Reverse page background color

Accordion

Section 1

Mauris mauris ante, blandit et, ultrices a, suscipit eget, quam. Integer ut neque. Vivamus nisi metus, molestie vel, gravida in, condimentum sit amet, nunc. Nam a nibh. Donec suscipit eros. Nam mi. Proin viverra leo ut odio. Curabitur malesuada. Vestibulum a velit eu ante scelerisque vulputate.

Section 2

Section 3

Tabs

FirstSecondThird

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Dialog

Open Dialog

Overlay and Shadow Classes

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>Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut

The ThemeRoller allows you to customise each individual setting of the colour scheme, fonts – in short, any CSS type property.

WD 15 - jQuery 03 UI Library v6

7

ThemeRoller

ThemeRoller

Roll Your Own Gallery Help

UI lightness UI darkness

Download Edit Download Edit

Smoothness Start

Download Edit Download Edit

Redmond Sunny

Download Edit Download Edit

Overcast Le Frog

Download Edit Download Edit

Accordion

Section 1

Mauris mauris ante, blandit et, ultrices a, suscipit eget, quam. Integer ut neque. Vivamus nisi metus, molestie vel, gravida in, condimentum sit amet, nunc. Nam a nibh. Donec suscipit eros. Nam mi. Proin viverra leo ut odio. Curabitur malesuada. Vestibulum a velit eu ante scelerisque vulputate.

Section 2

Section 3

Tabs

First Second Third

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Dialog

Open Dialog

Overlay and Shadow Classes

Overlay and Shadow Classes

Overlay and Shadow Classes

Button

A button element

Choice 1 Choice 2 Choice 3

Autocomplete

Spinner

Slider

Datepicker

January 2013

Su	Mo	Tu	We	Th	Fr	Sa
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

Progressbar

Or you can see the predefined themes and then edit them to suit your own requirements.

The downloaded library

The library is downloaded as a zip file with a name like:

`jquery-ui-1.11.4.custom.zip`

You should unzip it into the folder which is going to contain your web pages.

It contains a demo page called:

`index.html`

and the following folders:

`external`

`images`

Contents of the folders

external/jquery	Contains a copy of the standard jquery library, and also the core jquery UI library.
images	Contains image files associated with your theme

Copy these folders and the other files into the folder which contains your web pages (or alternatively rename the folder that they are in as something like 'jquery' and add that to the path name in the html file.

How to use the library

```
<!DOCTYPE html>

<html>
  <head>
    <link type="text/css" href="jquery-ui-1.11.4/jquery-ui.css" rel="stylesheet" />

    <script type="text/javascript"
      src="jquery-ui-1.11.4/external/jquery/jquery.js"></script>

    <script type="text/javascript" src="jquery-ui-1.11.4/jquery-ui.js"></script>

    <script type="text/javascript" src="Resize2.js"></script>
  </head>

  <body>
    <div class="demo">
      <div id="maindiv" class="ui-widget-content">
        <h3 class="ui-widget-header">Resizable</h3>
      </div>
    </div>
  </body>
</html>
```

Some of the more complex widgets have fairly specific requirements about how to structure the content.

Resize2.js

```
$(function() {  
    $( "#maindiv" ).resizable();  
});
```

The UI doesn't seem to require the use of the

```
$(document).ready(  
    // other jquery code  
);
```

function.

Making a particular element on the page clickable, and attaching an event handler function to it, seems to be handled inside the UI library, which means that programmer doesn't have to do it.

UI Documentation

jQuery UI 1.10 API Documentation

jQuery UI is a curated set of user interface interactions, effects, widgets, and themes built on top of the jQuery JavaScript Library. If you're new to jQuery UI, you might want to check out our [main site](#) for more information and full demos.

This site provides API documentation for jQuery UI 1.10. If you're working with jQuery UI 1.9, you can find the API documentation on [api.jqueryui.com/1.9/](#). However, we would encourage you to upgrade to jQuery UI 1.10 in order to receive the best support and take advantage of recent bug fixes and enhancements. Check out the [release announcement](#) and [upgrade guide](#) to find out more about jQuery UI 1.10.

To get started, use the search at the top of the page, view the [full listing of entries](#), or browse by category from the sidebar.

jQuery UI 1.10 supports jQuery 1.6 and newer.

Can't find what you're looking for?

Perhaps one of the following sites will help:

- [jQuery UI 1.9 API Documentation](#)
- [jQuery UI 1.8 API Documentation](#)
- [jQuery Core API Documentation](#)
- [jQuery Mobile API Documentation](#)
- [jQuery Learning Center](#)

QUICK ACCESS

CDN CSS	http://code.jquery.com/ui/1.10.0/themes/base/jquery-ui.css
CDN JS	http://code.jquery.com/jquery-1.9.0.js
CDN JS	http://code.jquery.com/ui/1.10.0/jquery-ui.js

BOOKS

Download jQuery UI 1.10.0 (for jQuery 1.6+):

Accordion widget

[Demos](#) [Download](#) [API Documentation](#) [Themes](#) [Development](#) [Support](#) [Blog](#) [About](#)

- Effects
- Effects Core
- Interactions
- Method Overrides
- Methods
- Selectors
- UI Core
- Utilities
- Widgets

Accordion Widget

Categories: [Widgets](#)

Accordion Widget version added: 1.0

Description: Convert a pair of headers and content panels into an accordion.

QuickNav

Examples

Options	Methods	Events
active	destroy	activate
animate	disable	beforeActivate
collapsible	enable	create
disabled	option	
event	refresh	
header	widget	
heightStyle		
icons		

The markup of your accordion container needs pairs of headers and content panels:

```
1 <div id="accordion">
2   <h3>First header</h3>
3   <div>First content panel</div>
4   <h3>Second header</h3>
5   <div>Second content panel</div>
6 </div>
```

Accordions support arbitrary markup, but each content panel must always be the next sibling after its associated header. See the [header](#) option for information on how to use custom markup structures.

The panels can be activated programmatically by setting the [active](#) option.

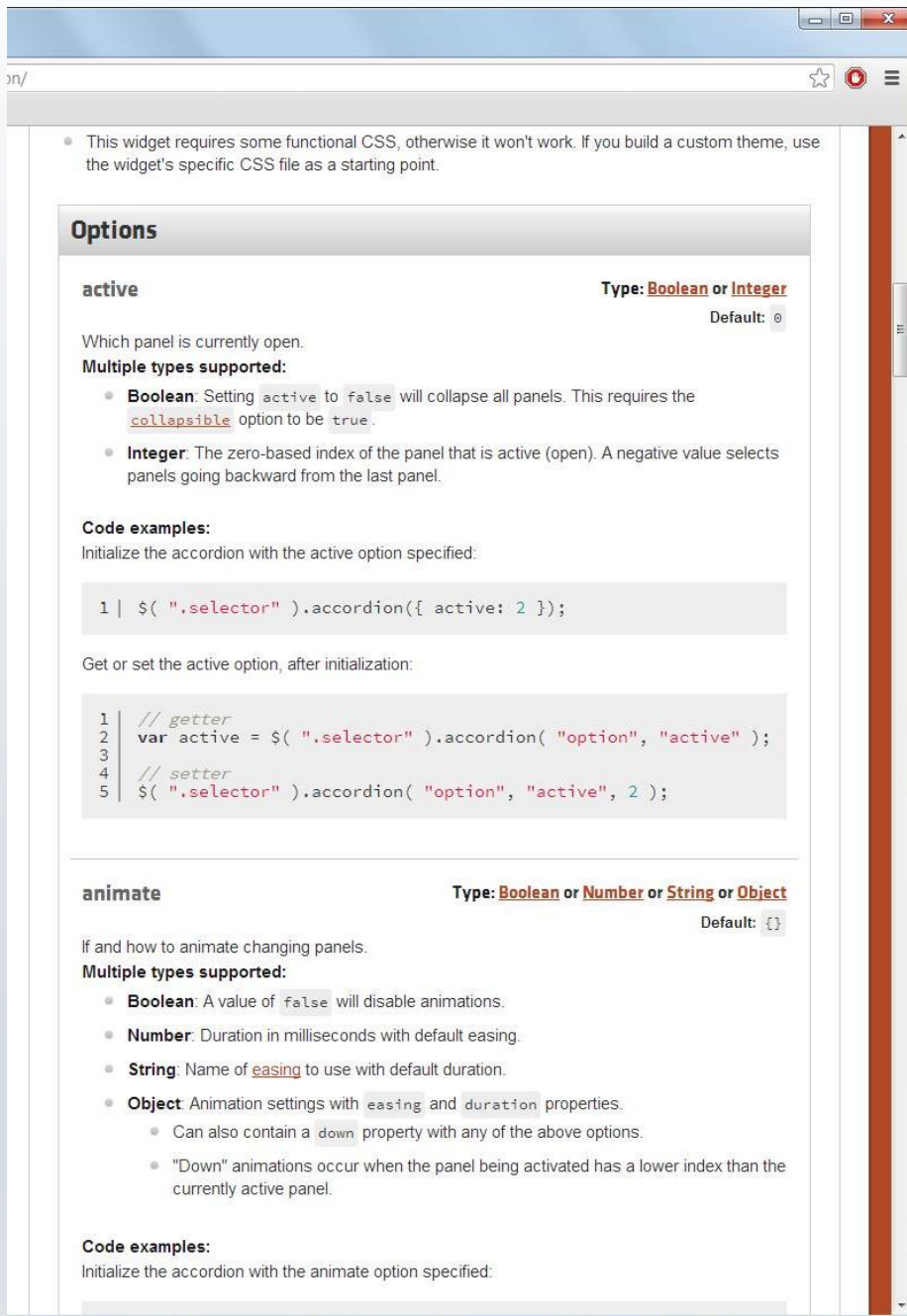
Keyboard interaction

When focus is on a header, the following key commands are available:

Options

You can usually customise the behaviour of the widget by specifying certain options.

The documentation provides examples.



The screenshot shows the jQuery UI accordion widget documentation. It includes a note about functional CSS requirements, a section for the 'active' option with its type (Boolean or Integer), default value, and supported types (Boolean and Integer). It also provides code examples for initializing the accordion with the active option. Below this, there is a section for the 'animate' option with its type (Boolean, Number, String, or Object), default value, and supported types (Boolean, Number, String, and Object). It also provides code examples for initializing the accordion with the animate option.

This widget requires some functional CSS, otherwise it won't work. If you build a custom theme, use the widget's specific CSS file as a starting point.

Options

active

Type: **Boolean or Integer**
Default: 0

Which panel is currently open.

Multiple types supported:

- Boolean:** Setting `active` to `false` will collapse all panels. This requires the `collapsible` option to be `true`.
- Integer:** The zero-based index of the panel that is active (open). A negative value selects panels going backward from the last panel.

Code examples:
Initialize the accordion with the active option specified:

```
1 | $( ".selector" ).accordion({ active: 2 });
```

Get or set the active option, after initialization:

```
1 | // getter
2 | var active = $( ".selector" ).accordion( "option", "active" );
3 |
4 | // setter
5 | $( ".selector" ).accordion( "option", "active", 2 );
```

animate

Type: **Boolean or Number or String or Object**
Default: {}

If and how to animate changing panels.

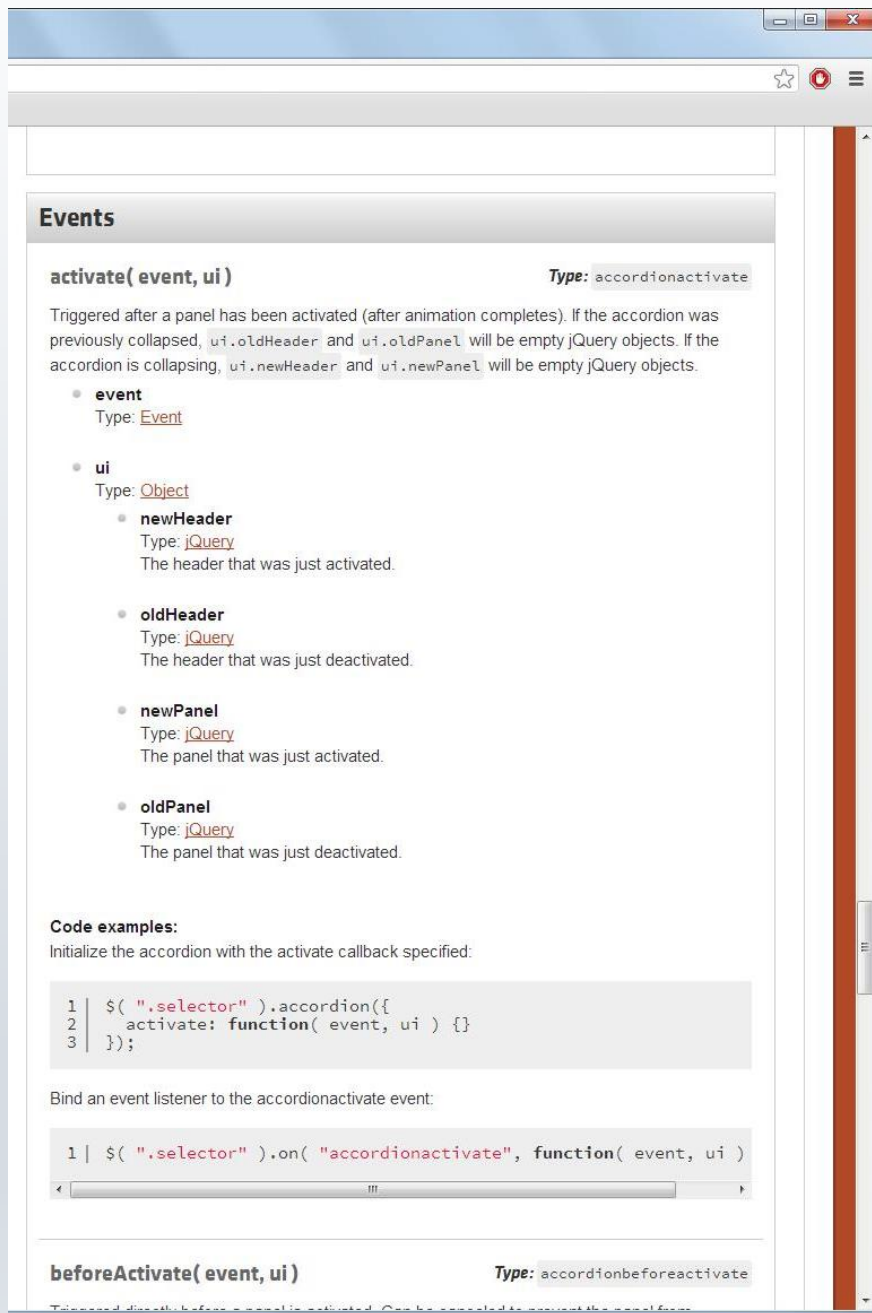
Multiple types supported:

- Boolean:** A value of `false` will disable animations.
- Number:** Duration in milliseconds with default easing.
- String:** Name of `easing` to use with default duration.
- Object:** Animation settings with `easing` and `duration` properties.
 - Can also contain a `down` property with any of the above options.
 - "Down" animations occur when the panel being activated has a lower index than the currently active panel.

Code examples:
Initialize the accordion with the animate option specified:

Events

The widget will fire certain events. These can be used to trigger other effects if you so wish.



Events

activate(event, ui) Type: accordionactivate

Triggered after a panel has been activated (after animation completes). If the accordion was previously collapsed, `ui.oldHeader` and `ui.oldPanel` will be empty jQuery objects. If the accordion is collapsing, `ui.newHeader` and `ui.newPanel` will be empty jQuery objects.

- **event**
Type: [Event](#)
- **ui**
Type: [Object](#)
 - **newHeader**
Type: [jQuery](#)
The header that was just activated.
 - **oldHeader**
Type: [jQuery](#)
The header that was just deactivated.
 - **newPanel**
Type: [jQuery](#)
The panel that was just activated.
 - **oldPanel**
Type: [jQuery](#)
The panel that was just deactivated.

Code examples:

Initialize the accordion with the activate callback specified:

```
1 | $( ".selector" ).accordion({
2 |   activate: function( event, ui ) {}
3 | });
```

Bind an event listener to the accordionactivate event:

```
1 | $( ".selector" ).on( "accordionactivate", function( event, ui )
```

beforeActivate(event, ui) Type: accordionbeforeactivate

Triggered directly before a panel is activated. Can be canceled to prevent the panel from

Methods

There will also be some methods associated with the widget.

These can be used to control the behaviour of the widget by means of javascript code.

Methods

destroy()

Removes the accordion functionality completely. This will return the element back to its pre-init state.

- This method does not accept any arguments.

Code examples:

Invoke the destroy method:

```
1 | $( ".selector" ).accordion( "destroy" );
```

disable()

Disables the accordion.

- This method does not accept any arguments.

Code examples:

Invoke the disable method:

```
1 | $( ".selector" ).accordion( "disable" );
```

enable()

Enables the accordion.

- This method does not accept any arguments.

Code examples:

Invoke the enable method:

```
1 | $( ".selector" ).accordion( "enable" );
```

option(optionName)

Returns: **Object**

Gets the value currently associated with the specified `optionName`.

- **optionName**
Type: `String`
The name of the option to get.

Example

Example:

A simple jQuery UI Accordion

```
1 <!doctype html>
2 <html lang="en">
3 <head>
4   <meta charset="utf-8">
5   <title>accordion demo</title>
6   <link rel="stylesheet" href="http://code.jquery.com/ui/1.10.0/themes/
7   <script src="http://code.jquery.com/jquery-1.9.0.js"></script>
8   <script src="http://code.jquery.com/ui/1.10.0/jquery-ui.js"></script>
9 </head>
10 <body>
11
12 <div id="accordion">
13   <h3>Section 1</h3>
14   <div>
15     <p>Mauris mauris ante, blandit et, ultrices a, suscipit eget.
16     Integer ut neque. Vivamus nisi metus, molestie vel, gravida in,
17     condimentum sit amet, nunc. Nam a nibh. Donec suscipit eros.
18     Nam mi. Proin viverra leo ut odio.</p>
19   </div>
20   <h3>Section 2</h3>
21   <div>
22     <p>Sed non urna. Phasellus eu ligula. Vestibulum sit amet purus.
23     Vivamus hendrerit, dolor aliquet laoreet, mauris turpis velit,
24     faucibus interdum tellus libero ac justo.</p>
25   </div>
26   <h3>Section 3</h3>
27   <div>
28     <p>Nam enim risus, molestie et, porta ac, aliquam ac, risus.
29     Quisque lobortis.Phasellus pellentesque purus in massa.</p>
30     <ul>
31       <li>List item one</li>
32       <li>List item two</li>
33       <li>List item three</li>
34     </ul>
35   </div>
36 </div>
37
38 <script>
39 $( "#accordion" ).accordion();
40 </script>
41
42 </body>
43 </html>
```

Demo:

