Using fullCalendar



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Also By Edwood Ocasio

Python does PDF: pyFPDF

Interviews with leaders of the scientific open source software community Vol. 1

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Contents

ntroduction	1
The basics of fullCalendar	2
A plain instance of fullCalendar	2
More navigation buttons	4
Hiding days	6
Changing locale	
Managing events	11
Adding events	
We must talk about date formats	11
Using an event array	11
Selection of date and time slots	17
Creating an event interactively	20
Modifying events	25
Removing events	27

Introduction

I believe fullCalendar¹ is the best JavaScript based calendar solution a developer could wish for. The features are compelling and the documentation is excellent. If you are reading this I guess you also agree. ;)

This book follows the same style as my pyFPDF book². I share many code snippets and advice that you may find helpful while working with fullCalendar. Although the documentation is excellent and Google and StackOverflow are a developer's best friends, I think that by centralizing and organizing our knowledge in one place, a book for example, we can learn better our tools. This book will be of help to you as it has already been for me. Trying to teach a subject is one of the best ways to master it.

This book will be updated every time a learn something new and valuable about fullCalendar. The updates will be available to you at no additional cost.

I hope this book makes your life easier and helps you make money faster in those client projects that require a calendar solution.

All code samples are based on fullCalendar version 2.6.1 (2016-02-17)

When you buy the book all code samples and resources will be available in a ZIP package linked from right here ("Introduction").

Regards,

Edwood Ocasio

¹http://fullcalendar.io/

²https://leanpub.com/pythondoespdfpyfpdf

A plain instance of fullCalendar

This sample has just enough code to have a working fullCalendar instance.

This is the minimal required JavaScript.

Listing fcbasic.js

```
// Create calendar when document is ready
(document).ready(function() {

// We will refer to $calendar in future code
var $calendar = $("#calendar").fullCalendar();
}

// We will refer to $calendar in future code
```

This is the HTML page:

Listing fcbasic.html

```
<html>
 1
 2.
        <head>
 3
            <meta http-equiv="Content-Type" content="text/html;charset=utf-8">
 4
            <title>Using fullCalendar</title>
 5
            <!--
 6
 7
            All CSS and JS files needed for fullCalendar. Change you
            files locations accordingly.
 8
 9
            -->
10
            <link rel='stylesheet' href='fullcalendar/fullcalendar.css' />
11
12
            <script src='fullcalendar/lib/jquery.min.js'></script>
            <script src='fullcalendar/lib/moment.min.js'></script>
13
            <script src='fullcalendar/fullcalendar.min.js'></script>
14
15
            <!-- Some styles for the calendar and other elements -->
16
            <style>
17
```

```
18
             #calendar {
19
                 width: 80%;
                 display: block;
20
21
                 margin-left: auto;
                 margin-right: auto;
22
23
                 }
24
25
             .centered {
26
                 text-align: center;
27
             }
28
29
             </style>
30
        </head>
31
32
    <body>
33
    <h1 class="centered">A basic instance of fullCalendar</h1>
34
35
    <!-- The calendar container -->
    <div id="calendar"></div>
36
37
    <!-- Calendar creation script -->
38
    <script src="fcbasic.js"></script>
39
40
41
    </body>
42
    </html>
```

6

We could have included the JavaScript code inside the HTML page but further in the book the code will get more involved and the HTML will just get in the way.

This gives us a month view calendar with simple navigation and plain appearance:

March 2016	rch 2016											
Sun	Mon	Tue	Wed	Thu	Fri	Sat						
28	29	1	2	3	4							
6	7	8	9	10	11	1:						
13	14	15	16	17	18	1						
20	21	22	23	24	25	2						
27	28	29	30	31	1							

More navigation buttons

The following example demonstrates all the navigation buttons available in fullCalendar:

Listing fc-full-navigation.js

```
// Create calendar when document is ready
    $(document).ready(function() {
 2
 3
        // We will refer to $calendar in future code
        var $calendar = $("#calendar").fullCalendar(
 5
 6
            { // Start of options
 8
                header: {
9
                    left: 'prevYear,nextYear',
                    center: 'title',
10
                    right: 'today,month,agendaDay,agendaWeek prev,next'
11
12
                },
```

```
13      } // End of options
14
15     );
16     });
```

This is the HTML page:

34

Listing fc-full-navigation.html

```
1
    <html>
 2
        <head>
            <meta http-equiv="Content-Type" content="text/html;charset=utf-8">
 3
            <title>Using fullCalendar</title>
 4
 5
            <!--
 6
 7
            All CSS and JS files needed for fullCalendar. Change you
            files locations accordingly.
 8
 9
            -->
10
11
            <link rel='stylesheet' href='fullcalendar/fullcalendar.css' />
            <script src='fullcalendar/lib/jquery.min.js'></script>
12
            <script src='fullcalendar/lib/moment.min.js'></script>
13
            <script src='fullcalendar/fullcalendar.js'></script>
14
15
16
            <!-- Some styles for the calendar and other elements -->
17
            <style>
18
            #calendar {
                width: 80%;
19
20
                display: block;
                margin-left: auto;
21
22
                margin-right: auto;
23
24
25
            .centered {
                text-align: center;
26
27
            }
28
29
            </style>
30
        </head>
31
    <body>
32
    <h1 class="centered">All navigation buttons fullCalendar</h1>
33
```

Now the calendar looks like this:

	All	naviga	ition b	uttons	f	ullCa	len	dar	•	
«	> I	Mar 20 —	26, 2016	too	lay	month	day	week	(>
	Sun 3/20	Mon 3/21	Tue 3/22	Wed 3/23	Т	hu 3/24	Fri	3/25	Sat 3/	26
all-day										
6am										

To change the position of the title and buttons just move them in the header object from or within the left, right or center properties. Use a comma to join buttons that should be adjacent and put spaces between those that should be separated by a gap.

Hiding days

In some applications you need to hide days because they are not needed. For example, weekends (Saturday/Sunday) can be hidden in an appointment calendar to avoid been used or to make clear they are not service days.

In the case of weekends fullCalendar has already a boolean property named weekends. If you set it to false weekends will not be shown:

Listing fc-no-weekends.js

```
1
    // Create calendar when document is ready
 2
    $(document).ready(function() {
 3
        // We will refer to $calendar in future code
 4
        var $calendar = $("#calendar").fullCalendar(
 5
 6
 7
                 { // Start of options
                     // Do not show Saturday/Sunday
 8
 9
                     weekends : false,
10
                     // Calendar header and navigation buttons
11
                     header: {
12
                         left:
13
                                  'title',
                         center: '',
14
15
                         right: 'today, month, agendaDay, agendaWeek prev, next'
16
                     },
17
18
                 } // End of options
19
20
             );
21
        }
22
    );
```

Th HTML page follows the same pattern as in the previous sections. Basically we just changed the source of the calendar script. It is included in the resource package for the book.

Now the calendar looks like this:

alte, a contract Militaria coloralizzone allabat dicatorione and admitted money bills area	Calendar	without v	veekends	
March 2016		toda	y month day	week
Mon	Tue	Wed	Thu	Fri
29	1	2	3	4
7	8	9	10	11

Now let us hide also Wednesdays and Fridays:

Listing fc-no-wend-friday.js

```
// Create calendar when document is ready
 1
    $(document).ready(function() {
        // We will refer to $calendar in future code
 3
        var $calendar = $("#calendar").fullCalendar(
 4
 5
            { // Start of options
 6
                // Do not show Saturday/Sunday
                weekends: false,
 8
 9
                // Hide Wednesday (3) and Friday (5). Week starts with
10
11
                // Sunday (0)
                hiddenDays: [3, 5],
12
13
                // Calendar header and navigation buttons
14
15
                header: {
16
                     left: 'title',
                     center: '',
17
                     right: 'today, month, agendaDay, agendaWeek prev, next'
18
19
                 },
20
            } // End of options
21
22
23
        );
24
    });
```

Now the calendar looks like this without those days:



Changing locale

fullCalendar provides good support for internationalization. We can change the locale of our calendars and display dates and times according to different international regions. There are 52 language files distributed with fullCalendar in the folder lang:

ar.js, ar-ma.js, ar-sa.js, ar-tn.js, bg.js, ca.js, cs.js, da.js, de-at.js, de.js, el.js, en-au.js, en-ca.js, en-gb.js, en-ie.js, en-nz.js, es.js, fa.js, fi.js, fr-ca.js, fr-ch.js, fr.js, he.js, hi.js, hr.js, hu.js, id.js,is.js, it.js, ja.js, ko.js, lt.js, lv.js, nb.js, nl.js, pl.js, pt-br.js, pt.js, ro.js, ru.js, sk.js, sl.js, sr-cyrl.js, sr.js, sv.js, th.js, tr.js, uk.js, vi.js, zh-cn.js, zh-tw.js

For this example we will change the locale to Spanish ("es-ES"). The change only needs to happen in the HTML page. What we need to do is to include the language files for fullCalendar in the appropriate order:

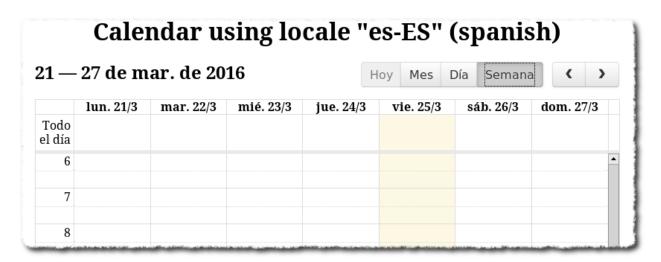
```
1 <!-- Spanish language file loaded after fullcalendar.js -->
2 <script src='fullcalendar/lang/es.js'></script>
```

To display correctly all international characters when changing locales it is important that the page charset be declared UTF-8. That is why we have this meta tag on top of every HTML page:

```
1 <meta http-equiv="Content-Type" content="text/html;charset=utf-8">
```

The calendar looks like this in Spanish:

Ca	lendar	using l	ocale "	es-ES"	(spanis	h)
marzo 201	16			Hoy Mes	Día Semana	()
lun.	mar.	mié.	jue.	vie.	sáb.	dom.
29	1	2	3	4	5	6
7	8	9	10	11	. 12	13



The distribution package of fullCalendar includes a more interesting example in the demo folder that allows access to all language files.

Adding events

fullCalendar provides a few ways to add events: event arrays, an event generation function, a JSON feed or a Google Calendar feed.

But before we start filling the calendar with events ...

We must talk about date formats

The date format is very important. fullCalendar since version 2.0 depends on the awesome MomentJS library. The dates a moment object understands by default are in the ISO 8601 format³. If they are not, MomentJS falls back to a regular JavaScript Date object, but it issues a warning that the fall back could be removed in the future.

So, it is always recommended to use the ISO 8601 format in the JSON objects we feed fullCalendar. For dates use "YYYY-MM-DD" and for combined date and time use one of these: "YYYY-MM-DD hh:mm:ss" or "YYYY-MM-DDThh:mm:ss", where a space or the letter "T" separates the time from the date. The time uses the 24-hour clock format.



One of the common errors when formatting dates for fullCalendar is forgetting to **zero-pad** the numbers, in the date or time. This is a valid date: "2016-01-04 08:30:00", but not this one "2016-1-4 8:30:00" because some numbers are not zero-padded. Some times finding this bug in fullCalendar is like searching for a sneaky semicolon in JavaScript code.

When the events are generated by a server side application you must take care of formatting the start and end dates and times. For example, in Python we will always use this formatting strings: "%Y-%m-%d" for dates and "%Y%m-%d %H:%M:%S" for date and time.

I should mention that MomentJS is very capable of parsing⁴ almost any reasonable date/time string, but I think we should take responsibility for returning what it expects by default. Of course, this will not always be possible, specially if we do not have control of the application generating the events.

Let's continue.

Using an event array

In this code we use an event array to create events in the calendar:

 $^{^3}$ http://en.wikipedia.org/wiki/ISO_8601

⁴http://momentjs.com/docs/#/parsing/

Listing fc-events-array.js

```
// Create calendar when document is ready
 1
 2
 3
    $(document).ready(function() {
 4
 5
        // Array of events
 6
        var events_array = [{
 7
                title: "Event 1",
                // Set to 1st of the month at 12:00 am
 8
                start: moment().startOf('month'),
 9
                // Set to en the 1st of the month at 1:30 am
10
                end: moment().startOf('month').add(90, 'minutes'),
11
                color: "red"
12
            }, {
13
14
                title: "Event 2",
                // Set to 1st of the month at 12:00 am
15
16
                start: moment().startOf('month').add(1, 'days'),
17
                // Set to end the 1st of the month at 3:00 am
                end: moment().startOf('month').add({
18
                     'days': 1,
19
                     'hours': 3
20
                }),
21
22
                color: "green"
23
            }, {
24
                title: "Multi-day event",
25
                // Set to start the 1st of the month
                start: moment().startOf('month'),
26
                // Set to end one week after the start of the month
27
                end: moment().startOf('month').add(1, 'weeks'),
28
                color: "blue",
29
30
                // This is an all-day event
31
                allDay: true
            },
32
33
        1;
34
        // We will refer to $calendar in future code
35
        var $calendar = $("#calendar").fullCalendar(
36
37
            { // Start of options
38
                header: {
39
                     left: 'title',
40
41
                    center: '',
```

```
right: 'today,month,agendaDay,agendaWeek prev,next'
},

events: events_array

// End of options

// 48

);

// 49

});
```

Notice the use of the MomentJS library to fabricate the start and end dates for each event. That is not fullCalendar's functionality, but since fullCalendar 2.* requires MomentJS, those utilities are at our disposal.

Let's delve for a "moment" in MomentJS.

Study this line:

```
1 moment().startOf('month').add(90,'minutes')
```

What do you think it does?

That line creates a date object representing the first day of the current month at 12:00 am and then it adds 90 minutes to it. The final date should be (if we are in march 2016): "2016-03-01 01:30:00".

This other line creates a date also at the first day of the month and then adds one day and 3 hours to that date:

```
1 moment().startOf('month').add({'days':1, 'hours':3})
```

The final date should be (if we are in march 2016): "2016-03-02 03:00:00".

I used startOf() just to force the events to appear at the top of the calendar for your viewing pleasure.



To learn more about manipulating dates and times with MomentJS check the Moment.js Documentation⁵

This is the HTML page:

⁵http://momentjs.com/docs/#/manipulating/

Listing fc-events-array.html

```
1
    <html>
 2
        <head>
 3
            <meta http-equiv="Content-Type" content="text/html;charset=utf-8">
            <title>Using fullCalendar</title>
 4
 5
            <!--
 6
 7
            All CSS and JS files needed for fullCalendar. Change you
 8
            files locations accordingly.
            -->
 9
10
11
            <link rel='stylesheet' href='fullcalendar/fullcalendar.css' />
            <script src='fullcalendar/lib/jquery.min.js'></script>
12
            <script src='fullcalendar/lib/moment.min.js'></script>
13
14
            <script src='fullcalendar/fullcalendar.js'></script>
15
16
            <!-- Some styles for the calendar and other elements -->
17
18
            <style>
19
            #calendar {
20
                width: 80%;
21
                display: block;
22
                margin-left: auto;
23
                margin-right: auto;
24
                 }
25
            .centered {
26
27
                text-align: center;
28
            }
29
30
            </style>
31
        </head>
32
33
    <body>
34
    <h1 class="centered">Events stored in a JavaScript array</h1></h1>
35
36 <!-- The calendar container -->
37
    <div id="calendar"></div>
38
39
   <!-- Calendar creation script -->
40
41
    <script src="fc-events-array.js"></script>
```

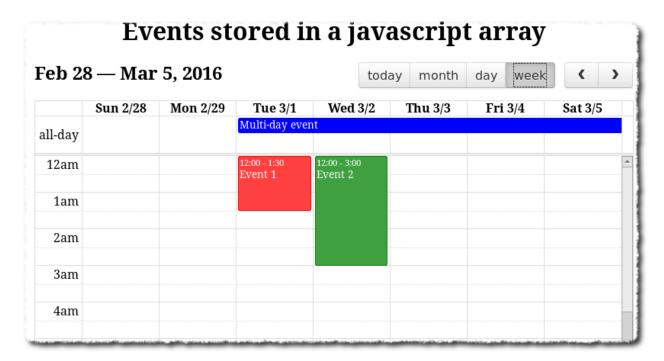
42

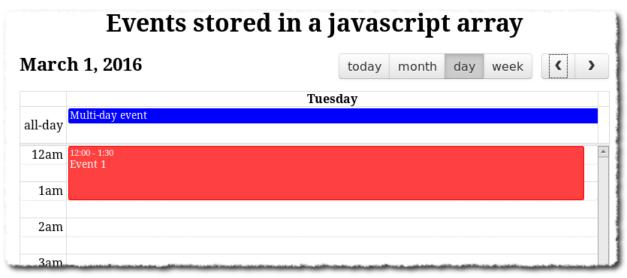
43 </body>

44 </html>

These are the views:

March 201	6		to	oday month	day week	()
Sun	Mon	Tue	Wed	Thu	Fri	Sat
28	29	1	2	3	4	
		Multi-day event 12a Event 1	12a Event 2			
6 Julti-day event	7	8	9	10	11	1
13	14	15	16	17	18	1
20	21	22	23	24	25	2
27	28	29	30	31	1	







Selection of date and time slots

By default fullCalendar does nothing when we click on a date/time slot or try to select a range of them. To enable selection we must set the property selectable to true.

Once that is done we can respond to user selections through the eventClick callback.

With the following code we respond with a JavaScript alert box to a click or a range selection in any view of the calendar:

Listing fc-select.js

```
// Create calendar when document is ready
    $(document).ready(function() {
 2
     // We will refer to $calendar in future code
 4
     var $calendar = $("#calendar").fullCalendar({
 5
 6
       // Start of calendar options
 7
       header: {
        left: 'title',
 8
 9
        center: '',
        right: 'today,month,agendaDay,agendaWeek prev,next'
10
11
       },
12
13
       // Make possible to respond to clicks and selections
14
       selectable: true,
15
```

```
16
       // This is the callback that will be triggered when a selection is made
17
       select: function(start, end, jsEvent, view) {
        alert(start.format("MM/DD/YYYY hh:mm a") + " to " + end.format("MM/DD/YYYY h\
18
    h:mm a") + " in view " + view.name);
19
20
21
       }
22
      } // End of calendar options
23
     );
24
    });
```

The code also shows how to format the date and time objects associated to each calendar slot:

```
1 start.format("MM/DD/YYYY hh:mm a")
```



To learn more about date and time formatting visit the MomentJS library documentation⁶

Notice also that the current view name is obtained from view.name.

This is the HTML page:

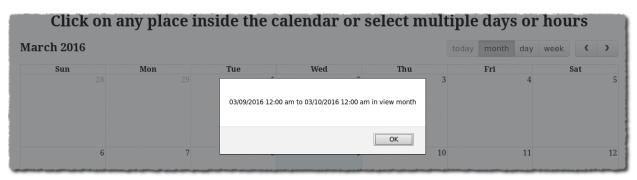
Listing fc-select.html

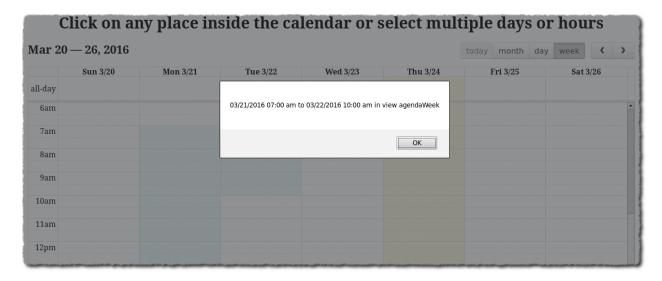
```
<html>
 1
 2
        <head>
            <meta http-equiv="Content-Type" content="text/html;charset=utf-8">
 3
            <title>Using fullCalendar</title>
 4
 5
            <!--
 6
            All CSS and JS files needed for fullCalendar. Change you
            files locations accordingly.
 8
 9
            -->
10
11
            k rel='stylesheet' href='fullcalendar/fullcalendar.css' />
12
            <script src='fullcalendar/lib/jquery.min.js'></script>
13
            <script src='fullcalendar/lib/moment.min.js'></script>
14
            <script src='fullcalendar/fullcalendar.js'></script>
15
            <!-- Some styles for the calendar and other elements -->
16
17
```

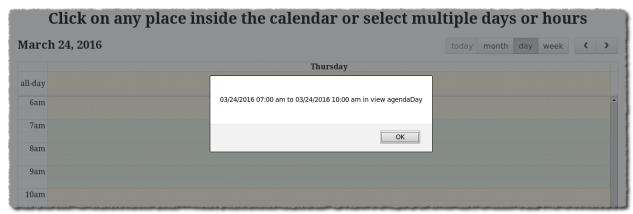
⁶http://momentjs.com/docs/#/displaying/

```
18
             <style>
19
             #calendar {
                 width: 80%;
20
                 display: block;
21
                 margin-left: auto;
22
23
                 margin-right: auto;
24
25
26
             .centered {
27
                 text-align: center;
             }
28
29
30
             </style>
        </head>
31
32
33
    <body>
    <h1 class="centered">Click on any place inside the calendar or select multiple d\
34
35
    ays or hours</h1></h1>
36
37
38
    <!-- The calendar container -->
39
    <div id="calendar"></div>
40
    <!-- Calendar creation script -->
41
42
    <script src="fc-select.js"></script>
43
44
    </body>
45
    </html>
```

This is what you should see after clicking on a calendar slot or selecting many slots by dragging the mouse (Firefox web browser on Linux):







Creating an event interactively

The following sample code will allow us to ask for a title for an event, create the event and then store it in the fullCalendar internal array of events. You can navigate away from the day of the event to other month, week or year and it will be kept in memory, unless you refresh the page.

Listing fc-interactive-event.js

```
1  // Create calendar when document is ready
2  $(document).ready(function() {
3
4    // We will refer to $calendar in future code
5    var $calendar = $("#calendar").fullCalendar({
6         // Start of calendar options
7         header: {
8         left: 'title',
```

```
9
        center: '',
        right: 'today, month, agendaDay, agendaWeek prev, next'
10
11
       },
12
13
       // Make possible to respond to clicks and selections
       selectable: true,
14
15
16
       // This is the callback that will be triggered when a selection is made.
17
       // It gets start and end date/time as part of its arguments
       select: function(start, end, jsEvent, view) {
18
19
         // Ask for a title. If empty it will default to "New event"
20
         var title = prompt("Enter a title for this event", "New event");
21
22
23
         // If did not pressed Cancel button
24
         if (title != null) {
          // Create event
25
          var event = {
26
           title: title.trim() != "" ? title : "New event",
27
28
           start: start,
           end: end
29
30
          };
31
32
33
          // Push event into fullCalendar's array of events
          // and displays it. The last argument is the
34
35
          // "stick" value. If set to true the event
          // will "stick" even after you move to other
36
37
          // year, month, day or week.
38
          $calendar.fullCalendar("renderEvent", event, true);
39
40
         };
         // Whatever happens, unselect selection
41
         $calendar.fullCalendar("unselect");
42
43
44
        } // End select callback
45
      } // End of calendar options
     );
46
47
    });
```

Notice the use of the following methods:

\$calendar.fullCalendar("renderEvent", event, true);

That call to renderEvent displays the event in the calendar and sets the stick argument value to true to keep the new events from disappearing when we navigate away from them.

This call to the unselect method removes the selection after the event is created or after the action is canceled:

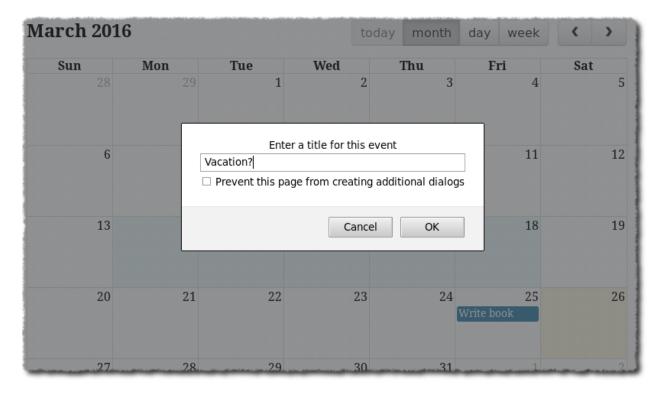
1 \$calendar.fullCalendar("unselect");

In the HTML page just change the source of the script tag:

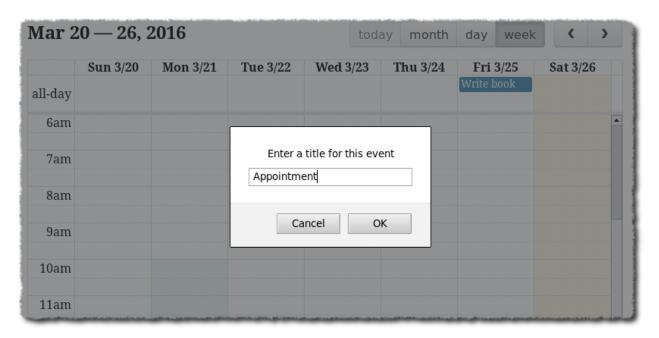
Some views of the action:

rch 201	6		t	oday	month	day week	()
Sun	Mon	Tue	Wed		Thu	Fri	Sat
		1	2		3	4	5
6	7	Ente Write b	er a title for this	event	10	11	12
13	14		Cancel	OK	17	18	19
20	21	22	23		24	25	20
27	28	29	30		31	1	
	4						

arch 201	6		n day week			
Sun	Mon	Tue	Wed	Thu	Fri	Sat
28	29	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 Write book	26
27	28	29	30	31	1	2



16		to	oday month	day week	()
Mon	Tue	Wed	Thu	Fri	Sat
29	1	2	3	4	5
7	8	9	10	11	12
Vacation?	15	16	17	18	19
21	22	23	24	Write book	26
	Mon 29 7 Vacation?	Mon Tue 29 1 7 8 14 15 Vacation?	Mon Tue Wed 29 1 2 7 8 9 14 15 16 Vacation? Vacation?	Mon Tue Wed Thu 29 1 2 3 7 8 9 10 14 15 16 17 Vacation? Vacation? 10 10	Mon Tue Wed Thu Fri 29 1 2 3 4 7 8 9 10 11 14 15 16 17 18 Vacation? 21 22 23 24 25



Mar 2	0-26, 2	2016		toda	ay month	day week	()
	Sun 3/20	Mon 3/21	Tue 3/22	Wed 3/23	Thu 3/24	Fri 3/25	Sat 3/26
all-day						Write book	
6am							
7am							
8am							
9am							
10am		10:00 - 12:00 Appointment					
11am							
12nm		Address Control of the Control		to the section of the section of	Ministrativista saliences his Albert 1		

Modifying events

There is not much to be done here, basically just tell fullCalendar that it should allow events to be editable.

Really. That's it.

To make the event responsive to clicks and to mouse dragging we must set the editable flag to true. The editable flag can be set globally for all events or locally for each event. We will go for the global flag in this example.

The code also shows how to edit the title of the event when we click on it.

Listing fc-modify-event-simple.js

```
// Create calendar when document is ready
    $(document).ready(function() {
2
3
4
    // We will refer to $calendar in future code
5
     var $calendar = $("#calendar").fullCalendar({
       // Start of calendar options
6
7
       header: {
        left: 'title',
8
        right: 'today, month, agendaDay, agendaWeek prev, next'
9
10
       },
```

```
11
12
       // Make possible to respond to clicks and selections
13
       selectable: true,
14
15
       // This is the callback that will be triggered when a selection is made.
16
       // It gets start and end date/time as part of its arguments
       select: function(start, end, jsEvent, view) {
17
18
19
         // Ask for a title. If empty it will default to "New event"
20
         var title = prompt("Enter a title for this event", "New event");
21
2.2
         // If did not pressed Cancel button
23
         if (title != null) {
24
          // Create event
25
          var event = {
26
           title: title.trim() != "" ? title : "New event",
27
           start: start,
           end: end
28
          };
29
30
31
32
          // Push event into fullCalendar's array of events
33
          // and displays it. The last argument is the
          // "stick" value. If set to true the event
34
          // will "stick" even after you move to other
35
36
          // year, month, day or week.
37
38
          $calendar.fullCalendar("renderEvent", event, true);
39
         };
         // Whatever happens, unselect selection
40
41
         $calendar.fullCalendar("unselect");
42
        }, // End select callback
43
44
        // Make events editable, globally
45
46
        editable : true,
47
48
        // Callback triggered when we click on an event
49
50
        eventClick: function(event, jsEvent, view){
51
         // Ask for a title. If empty it will default to "New event"
52
         var newTitle = prompt("Enter a new title for this event", event.title);
```

```
53
54
         // If did not pressed Cancel button
         if (newTitle != null) {
55
              // Update event
56
              event.title = newTitle.trim() != "" ? newTitle : event.title;
57
58
              // Call the "updateEvent" method
59
60
              $calendar.fullCalendar("updateEvent", event);
61
62
        } // End callback eventClick
63
      } // End of calendar options
64
65
     );
66
    });
```

In the HTML page just change the source of the script tag:

```
1 <script src="fc-modify-event-simple.js"></script>
```

Now create some events and then then click, extend, contract, drag or drop them.

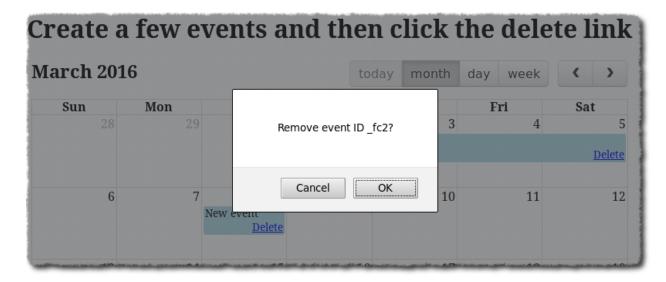
Removing events

The challenge of removing events is mostly how to make it easier for the user. There are many ways to expose this functionality. It is a matter of creativity.

In this example we will show a "Delete" link inside the event. When clicked, a confirm dialog will appear and the code will delete the event if the user answers "OK". It sounds simple enough. Unfortunately, there will be some unexpected behavior. But there will also be a fix.

Some screenshots:

reate a	few e	vents a	nd th	en o	click t	the del	ete linl
Iarch 201	.6			today	month	day week	()
Sun	Mon	Tue	Wed		Thu	Fri	Sat
28	29	1	Event 2	2	3	4	<u>Delet</u>
6	7	8 New event <u>Delete</u>		9	10	11	1
		Delete					



Thanks for reading. This is the end of the sample. I hope this fraction of the book has already been useful to you. After buying the book all updates to the content will be free.

Other topics I will cover are: using JQuery dialogs to manage events, using multiple event sources, recurrent events, persisting events in a database and controlling a calendar with external widgets like datepickers, checkboxes and dropdown lists. Get the book ^a.

 $^{{\}it ^a} https://usingfull calendar.wordpress.com/using-full calendar-book/$