

How to find out which JavaScript events fired?

▲ I have a select list:

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```
<select id="filter">  
  <option value="Open" selected="selected">Open</option>  
  <option value="Closed">Closed</option>  
</select>
```

When I select `Closed` the page reloads. In this case it shows closed tickets (instead of opened). It works fine when I do it manually.

The problem is that the page does not reload when I select `Closed` with [Watir](#):

```
browser.select_list(:id => "filter").select "Closed"
```

That usually means that some JavaScript event is not fired. I can fire events with Watir:

```
browser.select_list(:id => "filter").fire_event "onclick"
```

but I need to know which event to fire.

Is there a way to find out which events are defined for an element?

javascript

events

javascript-events

watir

browser-automation

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This question lists more tools: [stackoverflow.com/questions/570960/...](https://stackoverflow.com/questions/570960/) – Željko Filipin Sep 24 '10 at 14:11


- 2 Visual Event, [sprymedia.co.uk/article/Visual+Event](http://www.sprymedia.co.uk/article/Visual+Event) . I am sure that that will help half of the people landing on this stackoverflow page :) – Cedric Jul 25 '12 at 1:40

3 Answers



Just thought I'd add that you can do this in Chrome as well:

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 +  +  (Developer Tools) > Sources> Event Listener Breakpoints (on the right).



You can also view all events that have already been attached by simply right clicking on the element and then browsing its properties (the panel on the right).

For example:

- Right click on the upvote button to the left
- Select inspect element
- Collapse the styles section (section on the far right - double chevron)
- Expand the event listeners option
- Now you can see the events bound to the upvote

Not sure if it's quite as powerful as the firebug option, but has been enough for most of my stuff.

Another option that is a bit different but surprisingly awesome is Visual Event: <http://www.sprymedia.co.uk/article/Visual+Event+2>

It highlights all of the elements on a page that have been bound and has popovers showing the functions that are called. Pretty nifty for a bookmark! There's a Chrome plugin as well if that's more your thing - not sure about other browsers.

[AnonymousAndrew](#) has also pointed out [monitorEvents\(window\);](#): [here](#)

edited Mar 28 at 1:46

answered Sep 5 '11 at 2:02

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- 1 Update: it's not Scripts inside the Dev tools (or inspector), you have to go into Sources and then look at the menu on the right. – [aledalgrande](#) May 1 '14 at 0:30 

@aledalgrande Thanks, have updated. (For anyone reading, this only applies to the first solution, the second still uses the inspector). – [Chris](#) May 1 '14 at 5:08 



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Looks like [Firebug](#) (Firefox add-on) has the answer:

- open Firebug
- right click the element in HTML tab
- click Log Events
- enable Console tab
- click Persist in Console tab (otherwise Console tab will clear after the page is reloaded)
- select closed (manually)
- there will be something like this in Console tab:

```
...
mousemove clientX=1097, clientY=292
popupshowing
mousedown clientX=1097, clientY=292
focus
mouseup clientX=1097, clientY=292
click clientX=1097, clientY=292
mousemove clientX=1096, clientY=293
...
```

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- 4 Thanks so much, I didn't know about that Firebug feature. Perhaps I need to actually RTFM some time. – [Marcel Korpel](#) Sep 24 '10 at 13:36
- I did not know about it until a few minutes ago. I was writing the question and found the answer along the way. :) – [Željko Filipin](#) Sep 24 '10 at 13:39
- Your question looks a lot like mine (self answered, with self-comments). – [vol7ron](#) Sep 5 '11 at 2:17
-
- 2 A recent blog entry from Firebug's developer: softwareishard.com/blog/firebug/firebug-tip-log-dom-events – [jakub.g](#) Nov 15 '12 at 22:13
-
- 1 Hi, I tried right click on firebug but I can't find the option Log Events, can you please help me how to find this one? – [Rajagopalan](#) Jun 17 '18 at 15:03
-

Regarding Chrome, checkout the `monitorEvents()` via the command line API.

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- Open the console via Menu > Tools > JavaScript Console.
- Enter `monitorEvents(window);`
- View the console flooded with events

```
...
mousemove MouseEvent {dataTransfer: ...}
mouseout MouseEvent {dataTransfer: ...}
mouseover MouseEvent {dataTransfer: ...}
change Event {clipboardData: ...}
...
```

There are other examples in the [documentation](#). I'm guessing this feature was added after the previous answer.

answered Nov 5 '13 at 16:18



[AnonymousAndrew](#)

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- 5 Nice! In conjunction with jQuery: `monitorEvents($('#element').get())` – [Klaus](#) Feb 18 '16 at 14:44
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