



Scroll element into view – Selenium Javascript

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Scroll element into view

BASICS

Set Up

You must have faced this problem of scrolling an element into user view. Just for the purpose of taking screenshot or enabling the element



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Learn more about Selenium WebDriver

Lets start with a situation and we will see different ways to solve the situation

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Situation

Lets say on your page you have an element which is located somewhere near the end of the web page. You want to get this element into view. You want to do it deterministically so that you are always in control of where the element is.

Approach 1

Use `element.scrollIntoView()` method of element

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object in JavaScript. The signature of the method is

`element.scrollToView(alignWithTop)`

`alignWithTop` is a Boolean, if you want to your element to come in view with top of the element touching the top of viewport of browser put this as true else a false.

here is the code listing

```
1 public static void main(String[] args) th
2
3 // TODO Auto-generated method stub
4
5 FirefoxDriver ff = new FirefoxDriver(
6
7 ff.get("http://toolsqa.com");
8
9 Thread.sleep(5000);
10
11 ff.executeScript("document.getElement
12
13 }
```

Approach 2

We scroll the page by lines till our webelement is visible. To do this we will use the JavaScript function

`window.scrollToLines(NumberofLines)`

`NumberofLines` is an integer value specifying number of lines to scroll. A positive value signifies downward scroll and a negative value specifies upward scroll.

here is the code listing of this

```
1 public static void main(String[] args) th
2
3 // TODO Auto-generated method stub
4
5 FirefoxDriver ff = new FirefoxDriver(
6
7 ff.get("http://toolsqa.com");
8
9 Thread.sleep(5000);
10
11 //ff.executeScript("document.getEleme
12
13 WebElement targetElement = ff.findEle
14
15 int x = 0;
16
17 while((Double) ff.executeScript("retu
18
19 {
```

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```

20
21         x = x + 2;
22
23         ff.executeScript("window.scrollTo(0, document.body.scrollHeight);");
24
25         System.out.println("Client top is visible");
26
27     }
28
29     System.out.println("Element is visible");
30
31 }
32
33

```

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Keyword
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This is a vertical scroll approach. This should be enough at 100% zooms. However if your page is not at 100% or is bigger then the view port of browser you can do a similar horizontal scroll. If you see that in second approach we have assumed that element is somewhere down in the page view. It may not be the case always, please feel free to modify the method to suit the conditions where you have to scroll upwards too. Take it as a homework and post your code in comments.

I hope this article gives you a basic understanding of scroll options available to you via JavaScript. Go through more detailed JavaScript functions and you may get something really worth using.

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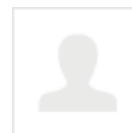
July 13, 2014 By Virender Singh



JavaScript

About the author

I am Virender Singh and I am a software test engineer. I have total experience of little more than eight years. I have worked on variety of test automation projects and development projects. I have keen interest in test automation primarily because of wide range of challenging problems inherited to this field. Talking about test tools I have worked on QTP, Selenium, JMeter, Self developed and off the shelf WebServices tools like SOAP UI and a few more from the same genre. I also love to learn new technologies,



current skill set include C++/CLR, C#.net and VB.net. With a fair amount of understanding I also know Java, JavaScript and PHP. I live in Hyderabad and work for a technology giant here. Apart from the professional front I appreciate Digital signal processing, Robotics and beauty of beer.



SELENIUM PROBLEMS

Automation Framework Regarding Reading data from Apache POI in webdriver. How to handle this kind of scroll down and need to scroll up and down ? In Keyword-Driver Framework. Object Repository file used in framework here is Text File and it includes only webelements located by "Xpath". In Text file locators are not specified, so how web-driver locates element while execution? If locator is

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