

Selenium – Part4 Tips and Tricks

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Interacting with Page

Элемент:

```
<input type="text" name="passwd"  
id="passwd- id" />
```

Обращение:

```
WebElement element;  
element = driver.findElement(By.id("passwd-id"));  
element = driver.findElement(By.name("passwd"));  
element = driver.findElement(By.xpath(  
"//input[@id='passwd-id']"));
```

Interacting with Page

- `element.sendKeys("some text");`
- `element.sendKeys(" and some", Keys.ARROW_DOWN);`
- `element.clear();`

isTextPresent

- `// ERROR: Caught exception [ERROR: Unsupported command [isTextPresent]]`
- `System.out.println(driver.getPageSource().contains(Text));`

```
System.out.println(driver.getPageSource().contains("Howdy, admin"));
```

MouseOver: Stable Solution

```
import
```

```
com.thoughtworks.selenium.Selenium;
```

```
...
```

```
Selenium selenium = new
```

```
WebDriverBackedSelenium(driver, baseUrl);
```

```
selenium.mouseOver(locator);
```

```
selenium.mouseDown(locator);
```

JavaScript Solution

```
protected void mouseOver(WebElement element) {
    String code = "var fireOnThis = arguments[0];"
        + "var evObj = document.createEvent('MouseEvents');"
        + "evObj.initEvent( 'mouseover', true, true );"
        + "fireOnThis.dispatchEvent(evObj);";
    ((JavascriptExecutor) driver).executeScript(code, element);
}
...
WebElement testmenu = driver.findElement(By.xpath("//a[@class='ab-
item' and @aria-haspopup='true' and
@href='http://demo.opensourcecms.com/wordpress/wp-
admin/profile.php']"));

mouseOver(testmenu);
```

MouseOver: Solution - Advanced User Interactions API

In order to generate a sequence of actions, use the Actions generator to build it. First, configure it:

```
Actions builder = new Actions(driver);  
builder.keyDown(Keys.CONTROL)  
    .click(someElement)  
    .click(someOtherElement)  
    .keyUp(Keys.CONTROL);
```

Then get the action:

```
Action selectMultiple = builder.build();
```

And execute it:

```
selectMultiple.perform();
```

```
WebElement menu = driver.findElement(By.xpath("//a[@class='ab-item'  
and @aria-haspopup='true' and  
@href='http://demo.opensourcecms.com/wordpress/wp-  
admin/profile.php']"));
```

```
WebElement menuOption =  
driver.findElement(By.xpath("//a[@class='ab-item' and contains (@href ,  
'http://demo.opensourcecms.com/wordpress/wp-login']"));
```

```
Actions builder = new Actions(driver);  
builder.moveToElement(menu).build().perform();  
menuOption.click();
```

Unstable!

Browser Navigation

- `driver.navigate().back();`
- `driver.navigate().forward();`

- `driver.navigate().to("http://www.example.com");`
- `(driver.get("http://www.example.com"))`

Screenshots

```
File screenshot =  
((TakesScreenshot)driver).getScreenshotAs(OutputType.FILE);  
FileUtils.copyFile(screenshot, new  
File("C:\\Selenium\\Screenshots\\Screen01.png"));
```

RC:

```
selenium.captureEntirePageScreenshot("C:\\Selenium\\Screensh  
ots\\Screen02.png", "");
```

Task

- В поисковой строке гугла ввести слово «осциллограф»
- Найти страницу, на которой содержится vit.ua по данному поисковому запросу
- Вывести в консоль номер страницы, где найдено vit.ua
- Сделать скриншот данной страницы