To practice the xpath examples, use the following website: demosite.center/wordpress/wp-login.php (Username:admin Password:demo123)

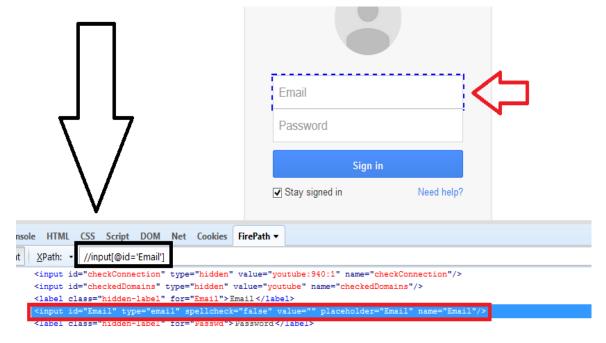
Also remember Xpath Axes (www.w3schools.com/xsl/xpath axes.asp) <== Very helpful

Relative Xpath Method

Using single attribute Syntax: //tagname[@attribute-name='value1']

Examples

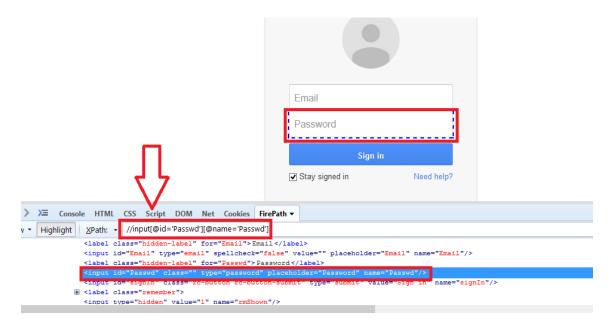
```
//a [@href='http://www.google.com']
//input[@id='name']
//input[@name='username']
//img[@alt='sometext']
```



Using multiple attributes Syntax: //tagname[@attribute1='value1'][attribute2='value2']

Examples

```
//a[@id='id1'][@name='namevalue1']
//img[@src=''][@href='']
```



Using contains method Syntax: //tagname[contains(@attribute,'value1')]

Syntax:
//input[contains(@id,")]
//input[contains(@name,")]
//a[contains(@href,")]
//img[contains(@src,")]
//div[contains(@id,")]

Using starts-with method Syntax: //tagname[starts-with(@attribute-name,")]

//id[starts-with(@id,")]
//a[starts-with(@href=")]
//img[starts-with(@src=")]
//div[starts-with(@id=")]
//input[starts-with(@id=")]
//button[starts-with(@id,")]

Using following method Syntax: Xpath/following::again-ur-regular-path

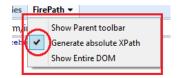
//input[@id="]/following::input[1] //a[@href="]/following::a[1] //img[@src="]/following::img[1]

Using preceding method Syntax: Xpath/preceding::again-ur-regular-path

//input[@id="]/ preceding::input[1] //a[@href="]/ preceding::a[1] //img[@src="]/ preceding::img[1]

Absolute Xpath Method

1-/html/head/body/div/input





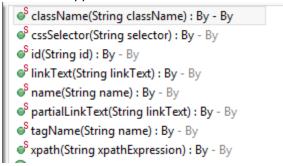
Relative and Absolute Xpath Method

//parent-xpath/absolute xpath
//input[@id='section']/div/input

CSS Selector

Selenium supports multiple locators which will help you to identify web element and perform the operation based on your requirements.

Selenium supports 8 locators



This is one of the most frequently asked questions in <u>interview</u> like how many selectors are present and which one is best and where to use which locator?

In terms of performance, CSS perform well as compared to <u>XPATH</u> and CSS will not change based on browsers, that is it will behave same in all browsers but xpath will behave differently in IE browser.

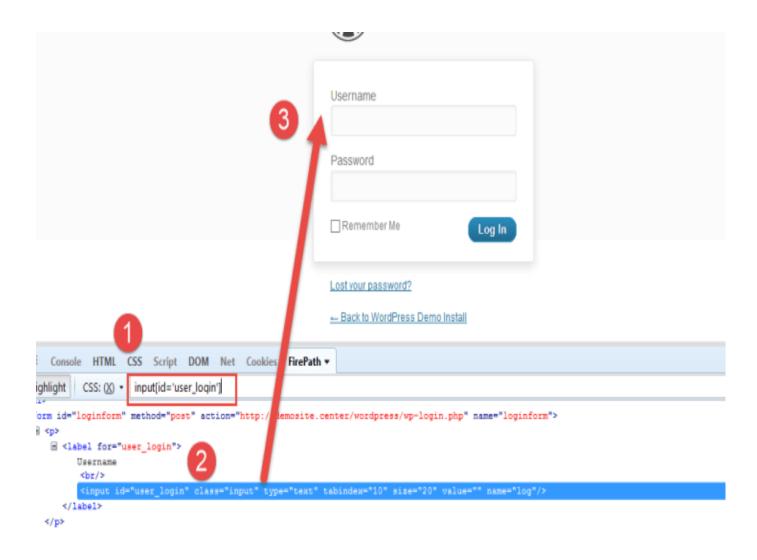
Symbol used while writing CSS selector in Selenium Webdriver

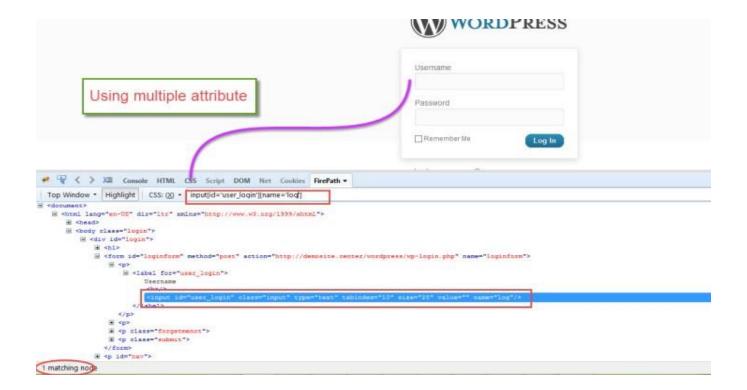
	attribute	Symbol used
1	Using id	use # symbol
2	Using class name	use . symbol
3	Using attribute	tagname[attribute='value']
4	Using multiple attribute	tagname[attribute1='value1'] [attribute2='value2']
5	Contains	* symbol
6	Starts with	^ symbol
7	Ends with	\$ symbol

Find CSS Selector using Single Attribute

Example: input[id='user_login']

Syntax: tagname[attribute='value']



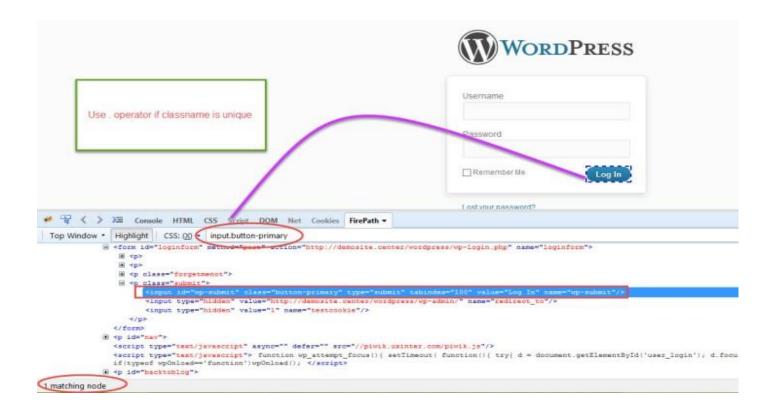


Syntax: using ID: tagname#id

Syntax: using Classname: tagname.classname

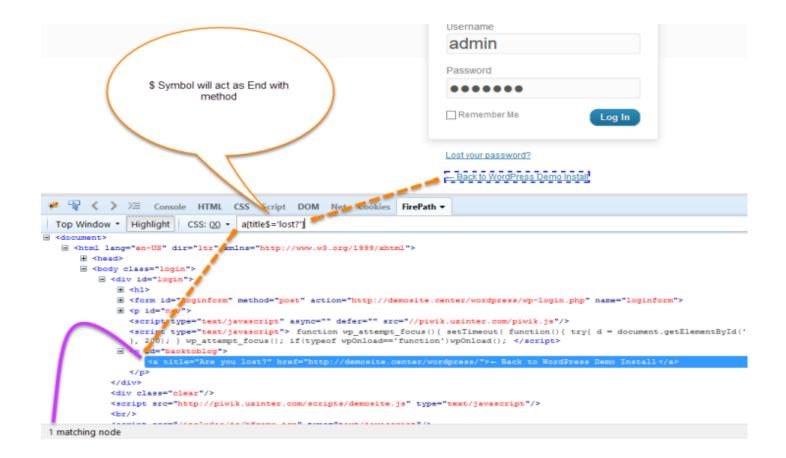
Generally, class name will **NOT** be unique. so always try class name with some other attributes.











Check this link from SauceLabs for CSS Selector

You can always use XPATH and CSS in your script, depends on your requirement.

If you want to run your test script in all browsers (For Cross Browser testing) then go with CSS. CSS will generally stay the same across browsers but xpath may not.