



## XPath Locators

LOCATOR	EXPLANATION
<code>//img</code>	image element
<code>//img[@id='myId']</code>	image element with @id= 'myId'
<code>//img[@id!='myId']</code>	image elements with @id not equal to 'myId'
<code>//img[@name]</code>	image elements that have name attribute
<code>//*[contains(@id, 'Id')]</code>	element with @id containing
<code>//*[starts-with(@id, 'Id')]</code>	element with @id starting with
<code>//*[ends-with(@id, 'Id')]</code>	element with @id ending with
<code>//*[matches(@id, 'r')]</code>	element with @id matching regex 'r'
<code>//*[@name='myName']</code>	image element with @name='myName'
<code>//*[@id='X' or @name='X']</code>	element with @id X or a name X
<code>//*[@name="N"][@value="v"]</code>	element with @name N & specified @value 'v'
<code>//*[@name="N" and @value="v"]</code>	element with @name N & specified @value 'v'
<code>//*[@name="N" and not(@value="v")]</code>	element with @name N & not specified @value 'v'
<code>//input[@type="submit"]</code>	input of type submit
<code>//section[//h1[@id='hi']]</code>	returns <section> if it has an <h1> descendant with @id='hi'
<code>//table[count(tr) &gt; 1]</code>	return table with more than 1 row
<code>//*[.='t']</code>	element containing text 't' exactly
<code>//a[contains(text(), "Log Out")]</code>	anchor with inner text containing 'Log Out'
<code>//a[not(contains(text(), "Log Out"))]</code>	anchor with inner text not containing 'Log Out'
<code>//a[@href="url"]</code>	anchor with target link 'url'
<code>//img/*[1]</code>	first child of element img
<code>//ul/child::li</code>	first child 'li' of 'ul'
<code>//img[1]</code>	first img child
<code>//img/*[last()]</code>	last child of element img
<code>//img[last()]</code>	last img child
<code>//img[last()-1]</code>	second last img child
<code>//input/following-sibling::a</code>	'a' following some sibling 'input'
<code>//a/following-sibling::*</code>	sibling element immediately following 'a'
<code>//input/preceding-sibling::a</code>	'a' preceding some sibling 'input'
<code>//input/preceding-sibling::*[1]</code>	sibling element immediately preceding 'input'
<code>//img[@id='MyId']::parent/*</code>	the parent of image with id
<code>//*[@id="TestTable"]//tr[3]//td[2]</code>	cell by row and column
<code>//td[preceding-sibling::td="t"]</code>	cell immediately following cell containing 't' exactly
<code>//td[preceding-sibling::td[contains(.,"t")]]</code>	cell immediately following cell containing 't'
<code>//input[@checked]</code>	checkbox (or radio button) that is checked
<code>//a[@disabled]</code>	all 'a' elements that are disabled
<code>//a[not(@disabled)]</code>	all 'a' elements that are not disabled
<code>//a[@price &gt; 2.50]</code>	'a' with price > 2.5
<code>//ul[*]</code>	ul' that has children

## FindsBy Attributes

```
[FindsBy(How = How.Id, Using = "userName")]
[FindsBy(How = How.ClassName, Using = "panel other")]
[FindsBy(How = How.CssSelector, Using = "#userName")]
[FindsBy(How = How.LinkText, Using = "Automate Planet")]
[FindsBy(How = How.Name, Using = "webDriverCheatSheet")]
[FindsBy(How = How.PartialLinkText, Using = "Automate")]
[FindsBy(How = How.TagName, Using = "a")]
[FindsBy(How = How.XPath, Using = "//*[@id='pan']/div ")
private IWebElement _myElement;
```

## CSS Locators

LOCATOR	EXPLANATION
<code>ul#myId</code>	'ul' element with @id= 'myId'
<code>#myUniqueld</code>	any element with @id= 'myId'
<code>ul.myForm</code>	'ul' element with @class = 'myForm'
<code>.myForm.front</code>	any element with @classes = 'myform' and 'front'
<code>ul#myUniqueld &gt; li</code>	direct child element
<code>ul#myUniqueld li</code>	sub child element
<code>ul[name = "automateName" style = "style_name"]</code>	ul' element with attributes @name = 'automateName' and @style= 'style name'
<code>ul[id = "myId"]</code>	ul' element with @id='myId'
<code>ul[@id]</code>	elements with @id attribute
<code>*[name='N'][value='v']</code>	elements with name N and specified value 'v'
<code>ul[id ^= "my"]</code>	all elements with an attribute beginning with 'my'
<code>ul[id \$= "Id"]</code>	all elements with an attribute ending with 'Id'
<code>ul[id *= "unique"]</code>	all elements with an attribute containing the substring 'unique'
<code>ul[id ~= "unique"]</code>	all elements with an attribute containing the word 'unique'
<code>ul#myUniqueld li:first-child</code>	first child element
<code>ul#myUniqueld li:nth-of-type(1)</code>	first child element
<code>ul#myUniqueld li:last-child</code>	last child element
<code>ul#myUniqueld li:nth-of-type(3)</code>	last child element
<code>div &gt; p</code>	all <p> elements that are a direct descendant of a <div> element
<code>div + p</code>	all <p> elements that are the next sibling of a <div> element (i.e. placed directly after)
<code>div ~ p</code>	all <p> elements that follow, and are siblings of <div> elements
<code>a:link</code>	all unvisited links
<code>a:visited</code>	all visited links
<code>a:hover</code>	all links on mouse hover
<code>input:active</code>	every active <input> element
<code>input:disabled</code>	every disabled <input> element
<code>input:enabled</code>	every enabled <input> element
<code>input:focus</code>	the <input> element which has focus
<code>input:read-only</code>	<input> elements with the 'readonly' attribute specified
<code>input:required</code>	<input> elements with the 'required' attribute specified
<code>input:checked</code>	checkbox (or radio button) that is checked
<code>form myForm.front + ul</code>	next sibling
<code>a:contains('Log Out')</code>	anchor with inner text containing 'Log Out'
<code>a[href='url']</code>	anchor with target link 'url'
<code>#TestTable tr:nth-child(3) td:nth-child(2)</code>	cell by row and column (e.g. 3rd row, 2nd column)
<code>td:contains('t') ~ td</code>	cell immediately following cell containing 't'
<code>p:lang(language)</code>	all <p> elements with a @lang attribute equal to 'language'

## Default FindElement

```
_driver.FindElement(By.Id("userName"));
_driver.FindElement(By.ClassName("panel other"));
_driver.FindElement(By.CssSelector("#userName"));
_driver.FindElement(By.LinkText("Automate The Planet"));
_driver.FindElement(By.Name("webDriverCheatSheet"));
_driver.FindElement(By.PartialLinkText("Automate"));
_driver.FindElement(By.TagName("a"));
_driver.FindElement(By.XPath("//*[@id='panel']/div/h1"));
```