**Basic Locators**

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| **Locator Type** | **Syntax** | **Example** | **Selenium syntax Example** |
| Xpath | //tagname[attribute=value] | "//input[@name='email']"  (//a[@value='GOI'])[2] | driver.find\_element\_by\_xpath("//input[@name='email']") |
| Css selector | tagname[attribute=value], tagname#id | "input[name='email']" | driver.find\_element\_by\_css\_selector("input[name='email']") |
| ID | No syntax | "id" | driver.find\_element\_by\_id("exampleFormControlSelect1") |
| Name | No syntax | "name" | driver.find\_element\_by\_name("name") |
| Class name | No syntax | "class-name" | driver.find\_element\_by\_class\_name("btn-success") |
| Link text | No syntax | "link-text" | driver.find\_element\_by\_link\_text("Genealogies") |
| Partial link text | No syntax | "partialtext" | driver.find\_element\_by\_partial\_link\_text("partialtext") |
| Tag name | No syntax | "tag-name" | driver.find\_element\_by\_tag\_name("span") |

**Customized XPATH Locator Without Tag Name**

Replace tag name with asterisk (\*) sign

***Syntax:*** //\*[attribute=value]

***Example***: //\*[@name = ‘email’]

//input[contains(@class, ’wideprimary’)]

//\*[contains(@id, ’LoginIdwide’)]

**Customized CSS Selector Syntax Without Tag Name**

Remove tag name

***Syntax***: [attribute=value]

***Example***: [class\*=‘alert-succes’]

**Generating XPATH based on text**

***Syntax:***  //tagname[contains(text(),’actual-text’)]

***Example***: //span[contains(text(),'Users Info')]

//\*[text()='Images']

//span[(text()='Gmail')]

//a[@text='Leh (IXL)']

//option[contains(text(),'Option')]

**Creating XPATH by traversing tags**

***Syntax:*** ParentTag/ChildTag

***Example:*** //div[@class='product-action']/button

***//div[@class='main main-bookmarks']/a[4]/div***

**Creating a CSS Selector by traversing to nth child**

***Syntax***: Tagname:nth-child(x)

***Example***: div:nth-child(1)

**Select Parent Locator from Child using XPATH**

***Syntax*** XPATH/parent::tagname

***Example***: //\*[title="test"]/parent::div

**Generating CSS Selector from Tag and Class Name**

Replace spaces with period(.) to use more than one class name

***Syntax***: Tagname.ClassName

***Example***: input.search-keyword

**Tagname#id**

**PARENT CHILD XPATH**

//div[@id='glsctl00\_mainContent\_ddl\_destinationStation1\_CTNR'] //a[@value='GOI']

**//tagname[contains(@attribute,'value')]**

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| --- |
| Evey object may not have ID, className or name- Xpath and CSS Preferred |
| Alpha numeric id may vary on every refresh- check |
| Confirm the link object with anchor "a" tag |
| Classes should not have spaces- Compound classes cannot be accepted |
| Multipl values - Selenium identifies the first one- Scans from top left |
| Double quotes inside double quotes are not accepted |
| Xpath/CSS can be defined in n number of ways |
| Rightclick copy on blue highlighted html code to generate xpath |
| Firepath depreciated from firefox- |
| when xpath starts with html-Not reliable- Switch browser to get another one |
| There is no direct way to get CSS in chrome. You will find it in tool bar |
| Degrade browser to less firefox 55 to ge Firepath |
| $("") - for css , $x("") or xpath |
| //tagName[@attribute='value'] - xpath syntax |
| tagName[attribute='value'] -CSS tagName#id- CSS tagname.classname- CSS |
| //tagName[contains(@attribute,'value')] - xpath regular expression |
| tagName[Atrribute\*='value'] - Css regular expression |