# Web Locator

# Identification commands

**from** **selenium.webdriver.common.by** **import** By

driver.find\_element(By.XPATH, '//button[text()="Some text"]')

driver.find\_elements(By.XPATH, '//button')

## Attributes Available :

ID = "id"

NAME = "name"

XPATH = "xpath"

LINK\_TEXT = "link text"

PARTIAL\_LINK\_TEXT = "partial link text"

TAG\_NAME = "tag name"

CLASS\_NAME = "class name"

CSS\_SELECTOR = "css selector"

### Example :

find\_element(By.ID, "id")

find\_element(By.NAME, "name")

find\_element(By.XPATH, "xpath")

find\_element(By.LINK\_TEXT, "link text")

find\_element(By.PARTIAL\_LINK\_TEXT, "partial link text")

find\_element(By.TAG\_NAME, "tag name")

find\_element(By.CLASS\_NAME, "class name")

find\_element(By.CSS\_SELECTOR, "css selector")

# NAME:

HTML:

<html>

<body>

<form id="loginForm">

<input name="username" type="text" />

<input name="password" type="password" />

<input name="continue" type="submit" value="Login" />

<input name="continue" type="button" value="Clear" />

</form>

</body>

</html>

username = driver.find\_element(By.NAME, 'username')

password = driver.find\_element(By.NAME, 'password')

# Link Text and Partial Link Text

HTML

<html>

<body>

<p>Are you sure you want to do this?</p>

<a href="continue.html">Continue</a>

<a href="cancel.html">Cancel</a>

</body>

</html>

The continue.html link can be located like this:

continue\_link = driver.find\_element(By.LINK\_TEXT, 'Continue')

continue\_link = driver.find\_element(By.PARTIAL\_LINK\_TEXT, 'Conti')

# Tag Name:

HTML

<html>

<body>

<h1>Welcome</h1>

<p>Site content goes here.</p>

</body>

</html>

heading1 = driver.find\_element(By.TAG\_NAME, 'h1')

# Class Name

<html>

<body>

<p class="content">Site content goes here.</p>

</body>

</html>

content = driver.find\_element(By.CLASS\_NAME, 'content')

# Xpath

HTML:

<html>

<body>

<form id="loginForm">

<input name="username" type="text" />

<input name="password" type="password" />

<input name="continue" type="submit" value="Login" />

<input name="continue" type="button" value="Clear" />

</form>

</body>

</html>

Use XPath to either locate the element in absolute terms (not advised), or relative to an element that does have an id or name attribute. XPath locators can also be used to specify elements via attributes other than id and name.

#Absolute Path

login\_form = driver.find\_element(By.XPATH, "/html/body/form[1]")

login\_form = driver.find\_element(By.XPATH, "//form[1]")

login\_form = driver.find\_element(By.XPATH, "//form[@id='loginForm']")

# CSS Selectors

<html>

<body>

<p class="content">Site content goes here.</p>

</body>

</html>

content = driver.find\_element(By.CSS\_SELECTOR, 'p.content')

# Additional:

# Contains:

"//h4/a[contains(text(),'SAP M')]"

# Starts With

Xpath=//label[starts-with(@id,'message')]

# And /Or

Xpath=//\*[@type='submit' OR @name='btnReset']

Xpath=//input[@type='submit' and @name='btnLogin']

# Parent:

Xpath=//\*[@id='rt-feature']//parent::div

# Following

Xpath=//\*[@type='text']//following::input

# Preceeding

Xpath= //\*[@type='submit']//preceding::input