



# Selenium Open Source Test Automation Framework Keyword Naming Conventions for Developers (Web)

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**TABLE OF CONTENTS**

<b>1. PURPOSE OF THE DOCUMENT .....</b>	<b>3</b>
<b>2. KEYWORD NAMING CONVENTIONS.....</b>	<b>4</b>
2.1. Naming Conventions Used for Keywords .....	4
2.2. Naming Conventions Used for Objects .....	4
2.3. Naming Conventions Used for Actions .....	5
2.4. Naming Conventions Used for Variables .....	6
2.5. Naming Convention Used for Datatable .....	7
2.6. Naming Convention Used for Environment .....	7

## 1. Purpose of the Document

This document provides the naming conventions followed in Open Source Test Automation Framework for the Web technology.

## 2. Keyword Naming Conventions

### 2.1. Naming Conventions Used for Keywords

#### 1. LaunchApp

'LaunchApp' is used to launch the application under test (AUT). This keyword triggers the driver script to launch the application, either from a specified folder (the location of which is specified in the third column) or if the application is already synchronized with main.rb then this automatically launches the application from the URL mentioned.

#### 2. Perform

'Perform' is used to perform an operation on a particular object such as clicking on a button, closing an open Web page, or typing text in a textbox. This keyword should be entered in the corresponding row in the second column if any such operations are to be performed.

#### 3. Check

'Check' is used to check if the required property of a particular object is attained at runtime. This is a type of validation step (expected result).

#### 4. Condition

'Condition' is used to compare two variables, checking properties, existence of windows, etc.

#### 5. Storevalue

'Storevalue' is used to store the property values of different objects in different environment variables. These environment variables can later be used as input parameters in various functions as well as in scripts.

#### 6. Wait

'Wait' is used to place static waits in the keyword script.

#### 7. Loop

'Loop' is used to loop a set of actions given in the Excel sheet.

### 2.2. Naming Conventions Used for Objects

The table below provides the naming conventions followed for different Web objects in the Open Source Test Automation Framework.

	Web Object Class	Naming Conventions
1.	WebButton	Button
2.	WebCheckBox	Checkbox
3.	WebList	Combobox/ listbox
4.	WebEdit	Textbox
5.	WebRadioGroup	Radiobutton
6.	Link	Link
7.	Frame	Frame
8.	Window	Window
9.	Image	Image
10.	WebTable	Table

Table 1: Naming Conventions Used for Objects

### 2.3. Naming Conventions Used for Actions

#### 1. Click

'Click' is used to perform the click operation on objects.

(Ex: Clicking a WebButton, Link WebElement, etc.)

#### 2. Select:<name>

'Select' is used to select an item from Combobox.

#### 3. Listselect:<Listitem 1>,<listitem 2>...<listitem n>

'listselect' is used to select the list of items from the list.

#### 4. Set:<Text>

'Set' is used to assign a value to a edit field.

#### 5. Checked:<On/Off>

This is a check operation that is used to verify whether a checkbox is checked or not.

#### 6. Enabled:<True/False>

This is a check operation that is used to verify whether the given Web object is enabled or not.

#### 7. Visible:<True/False>

This is a check operation that is used to verify whether the specified object is visible or not.

#### 8. Text:<text/#Variable\_Name>

This is a check operation that is used to verify whether the required text is present or not in the object.

9. **set:dt\_<variable>**

This is used to assign the value, which is stored in the external data sheet to the edit field.

10. **set:#<variable>**

This is used to assign the value, which is stored in the variable to the edit field.

11. **text:<text to search>**

This is a check operation that is used to verify whether a string is present or not in the table.

## 2.4. Naming Conventions Used for Variables

- To store the property value of an object, an environment variable is used.

Example:

Storevalue	Textbox; <textbox name>	Prop_name: <varName>
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Here, the value in the textbox is stored to a variable 'varName'

- To assign a value to a field from a variable, the variable should be preceded by '#'.

Perform	Textbox;<textbox name>	Set:#varName
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Here, the value stored in varName is assigned to the textbox.

**Note:** Variable Naming Standards to be followed as below

### **StrVarName** -

Ex: To store a username (which is a string value) in a variable.

Storevalue	Textbox; Username	Text: StrUserName
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### **intVarName** -

Ex: To store an order number, which is a integer value in a variable.

Storevalue	Textbox; OrderNo.	Text: intOrderNo
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### **blnVarName** -

Ex: To store an exit property value., which is a Boolean value in a variable.

Storevalue	Textbox; OrderNo.	Exist: blnOrderProValue
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## 2.5. Naming Convention Used for Datatable

To input a value to a field from a datatable, the naming convention used is **dt**.

Example:

Perform	Textbox;<textbox name>	Set: dt_<Parameter>
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Here, the 'dt' signifies to take the value from the datatable from the column "Parameter". This data should be in external sheet, this keyword should be used only after importsheet keyword.

## 2.6. Naming Convention Used for Environment

To input a value to a field from an environment variable, the naming convention used is **#**.

Example:

Perform	Textbox;<textbox name>	Set: #<VarName>
---------	------------------------	-----------------

Here the 'env' signifies to take the value from the environment variable 'VarName'.

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