

STSWENG

Advanced Software Engineering

Automation Testing: Getting started with Selenium



Selenium

Selenium automates browsers. That's it!

What you do with that power is entirely up to you.

Primarily it is for automating web applications for testing purposes, but is certainly not limited to just that.

Boring web-based administration tasks can (and should) also be automated as well.

Getting Started



Selenium WebDriver

If you want to create robust, browser-based regression automation suites and tests, scale and distribute scripts across many environments, then you want to use Selenium WebDriver, a collection of language specific bindings to drive a browser - the way it is meant to be driven.

DOWNLOAD



Selenium IDE

If you want to create quick bug reproduction scripts, create scripts to aid in automation-aided exploratory testing, then you want to use Selenium IDE; a Chrome and Firefox add-on that will do simple record-and-playback of interactions with the browser.

DOWNLOAD



Selenium Grid

If you want to scale by distributing and running tests on several machines and manage multiple environments from a central point, making it easy to run the tests against a vast combination of browsers/OS, then you want to use Selenium Grid.

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- ✓ Most flexible and **base** for most automation tools.
- ✓ Used by Robot Framework through the [SeleniumLibrary](#).

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Good to use for getting started and **exploring** how to automate a website.

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✓ For **scaling up** and **distributing** the automation workload to multiple machines at the same time.

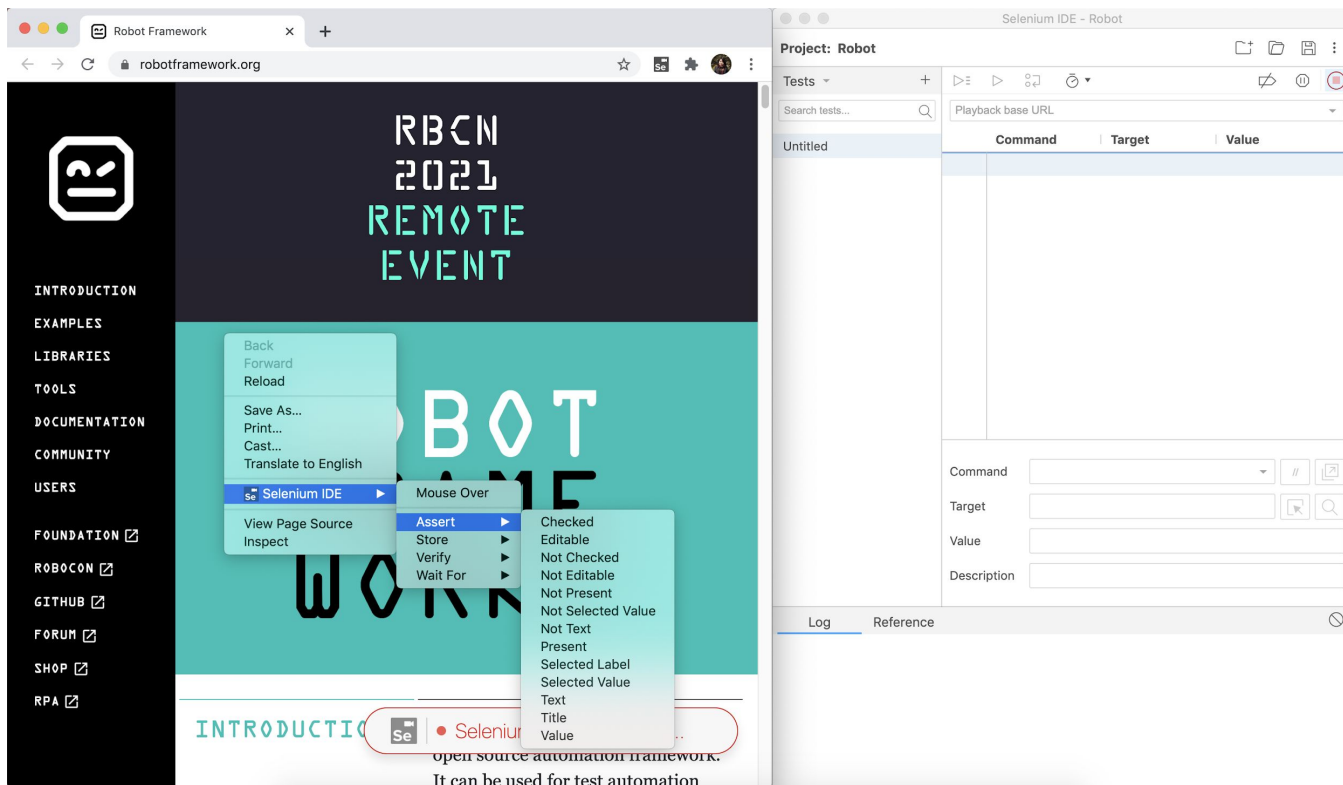


Selenium IDE Demo

Let's try using Selenium IDE with a website!

Assertion in SeleniumIDE

While recording, you can **right click** and choose **SeleniumIDE** to add **assertion** commands and more!



Resources

[SeleniumIDE Commands](#)

Selenium Selectors References:

- ✓ [Locators In Selenium WebDriver With Examples](#)
- ✓ [Locators in Selenium : How to Locate Elements](#)
- ✓ [SeleniumLibrary | RobotFramework](#)

Exercise

Practice with Selenium IDE

1. Go to SauceDemo.com. (It's a dummy website!)
2. Explore the website.
3. Using the SeleniumIDE plugin, record the test steps and add the assertion to complete the test.
Test cases are provided on AnimoSpace.
4. Record your screen executing the modified test scripts.
5. Submit the recording together with the screenshots of the SeleniumIDE for each test case.
6. Answer the reflection questions.