**Selenium Introduction:**

Selenium is an open source automated testing suite for web applications across different browsers. Selenium is not just a single tool but a suite of software's, each catering to different testing needs of an organization.

* The entire Selenium Tool Suite is comprised of four components:
  + **Selenium IDE**, a Firefox add-on that you can only use in creating relatively simple test cases and test suites.
  + **Selenium Remote Control**, also known as **Selenium 1**, which is the first Selenium tool that allowed users to use programming languages in creating complex tests.
  + **WebDriver**, the newer breakthrough that allows your test scripts to communicate directly to the browser, thereby controlling it from the OS level.
  + **Selenium Grid** is also a tool that is used with Selenium RC to execute parallel tests across different browsers and operating systems.
* Selenium RC and WebDriver was merged to form **Selenium 2**.
* Selenium is more advantageous than QTP in terms of **costs and flexibility**. It also allows you to **run tests in parallel**, unlike in QTP where you are only allowed to run tests sequentially.

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### Installation of Selenium IDE

1. Launch Firefox and navigate to <https://addons.mozilla.org/en-US/firefox/addon/selenium-ide/>. Click on Add to Firefox

## Installation of Firebug

**Firebug**is a Firefox add-on that we will use to **inspect the HTML elements** of the web application under test. It will provide us the name of the element that our Selenese command would act upon.

**1.** Use Firefox to navigate to Firebug's download page ( <https://addons.mozilla.org/en-US/firefox/addon/firebug/>) and click on the download link.

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Introduction to Selenium IDE**

* Selenium IDE (Integrated Development Environment) **is the simplest tool** in the Selenium Suite.
* **Firebug**(or any similar add-on) is used to obtain locator values**.**
* The **menu bar** is used in creating, modifying, and exporting test cases into formats useable by Selenium RC and WebDriver.
* The **default format for Selenese commands is HTML**.
* The **"Options" menu provides access to various configurations** for Selenium IDE.
* The **Base URL** is useful in accessing **relative URLs**.
* The **Test Case Pane** shows the list of currently opened test cases and a concise summary of test runs.
* The **Editor** provides the **interface for your test scripts**.
* The **Table View** shows your script **in** **tabular format** with "Command", "Target", and "Value" as the columns.
* The **Source View** shows your script **in HTML format**.
* The **Log** and **Reference** tabs give feedback and other useful information when executing tests.

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