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Selenium Java Training - Session 1 - Introduction to Selenium

Introduction to Selenium

Manual Testing

Performing the testing without using any tools is known as Manual Testing. Here a tester / person will do the testing.

Automation Testing

Performing the testing with the help of tools is known as Automation Testing. Here instead of a person, a tool will perform the testing. The tool used for replacing the person is nothing but a Test Automation tool.

How can a tool perform Testing ?

Testers will do some coding and put the developed code into the Automation tool. Automation tool will perform testing with the help of the code developed by the testers.

Selenium

Selenium in simple terms is a Test Automation Tool. i.e. Instead of a person performing testing manually, Selenium tool will automatically perform the testing with the help of developed code.

Type of Applications that Selenium can automate

Selenium can only automate Web Applications (i.e. The applications which run on the browser).

Example: https://www.msn.com

Selenium cannot automate Desktop Applications or Mobile Applications (i.e. The applications which dont run on the browsers).

Example: Skype, Adobe PDF Reader and many more.

Selenium is a free tool

Selenium is a free tool. (i.e. You don't need to pay any license amount for using Selenium tool.)
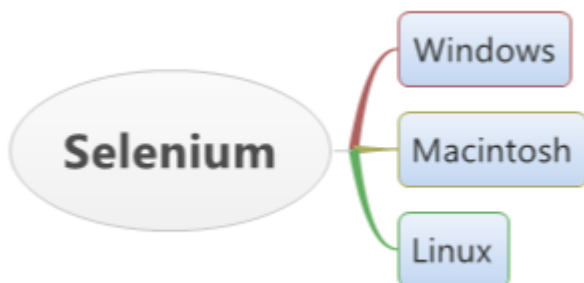
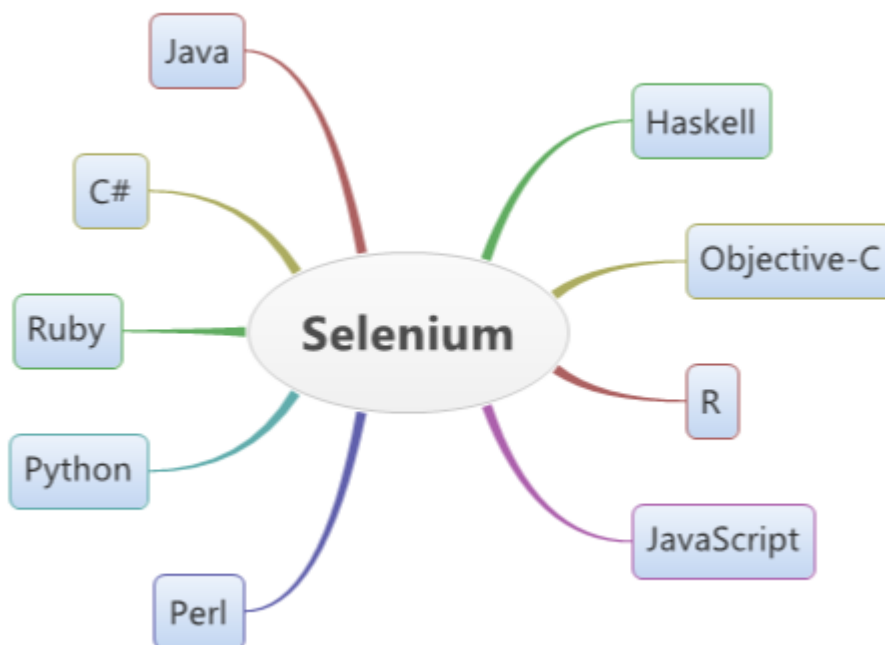### Different Browsers supported by Selenium

Note: Edge Browser is also added to this list.

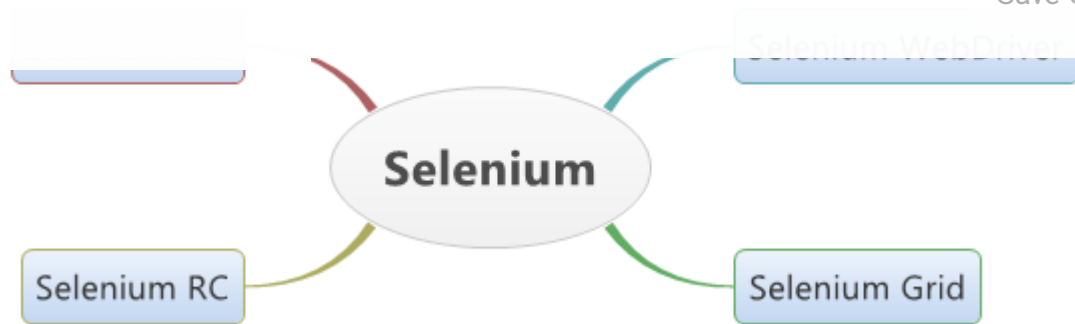## Different Operating Systems supported by Selenium

Different Programming Languages supported by Selenium

Note: Check the official website of Selenium, to get the updated list of programming languages that are supported by Selenium.

Different Components in Selenium

Selenium is not a single tool. Instead it is a combination of tools like Selenium IDE, Selenium RC, Selenium WebDriver and Selenium Grid. Out of all these tools, Selenium RC is outdated and can be ignored completely.

Different versions of Selenium

So far, Selenium got released into the market in three different versions i.e. Selenium 1, Selenium 2 and Selenium 3. Selenium 1 is the older version and Selenium 3 is the latest version.

As per todays date, the Selenium 4 got released into the market on Oct 13, 2021

Pre-requisites required for learning Selenium

In order to understand Selenium in a better way, we need to know the below pre-requisites first:

- Locators
- Core Java

I will be explaining the above pre-requisites on the need basis.

Official Website of Selenium

- Selenium.dev

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