# Selenium

## What is Selenium

Selenium is an Automation Framework which is available for many program languages such as Java, JS, Python, C#.

Now a days we use it with a browser driver which handles de interaction between the browser and the web pages elements.

By writing a program we can control all the possible interaction we could have in any web page, such as write text, perform clicks in the various elements in the page, retrieve the page information and so on.

This allow us to go through any navigation only the very first time, then once we have the program this will be able to go through that navigation, so this will reduce the amount of time in the testing area,

Is better to include TestNG or Junit in when we´re writing Automation Scripts with Selenium this way at the end of the execution we could have a complete report on what went well and what failed.

## Web Driver

Web driver is nothing else than the driver for the browser. This driver is the one that tells the browser what actions it must perform.

## Types of Web Drivers

The most common web Drivers are

* Chrome
* Geko (Firefox)
* InternetExplorer

Download Web Drivers

<https://www.seleniumhq.org/download/>

GEKO Driver

<https://github.com/mozilla/geckodriver/>

Chrome Driver

<https://sites.google.com/a/chromium.org/chromedriver/>

## Setup workspace for Selenium

1. Create a new Work-Space
2. Open Eclipse (or Any IDE)
3. Create a new Java Project
4. Add downloaded Jars to the build path

## Selenium Support

<https://www.seleniumhq.org/>

# Selectors

## Selectors Types:

* By Tag
* By Name
* By Id
* By Class
* By XPATH
* By linkText
* By partialLinkText

## Define our own selectors

## Implicit Waits

## Section 3 Page Object Model (POM)

POM is the Design pattern that every QA Dev must to fallow in order to write scalable Automation Test for applications