Selenium – Open Source

2007 – IDE – Firefox Extension – record and play

2008 – RC-Selenium 1

#WebDriver

2011- Selenium 1+ WebDriver = Selenium 2

2013 – Selenium RC was deprecated

2015 – Selenium 3 – JSON Wire protocol

V – 3.141.59 – Dec 2018

Selenium 4 - W3C – coming soon

Selenium GRID – Parallel execution on different browsers.

Supports browsers

Firefox, Chrome, Opera, Safari, Edge

Operating Systems

Win, Mac, Linux

Languages

Java, C#, Python, Perl, Ruby, Javascript, PHP

Selenium automates web applications

Can’t automate desktop based applications- paint, notepad, eclipse, GotoMeeting

Applets(Java and .Net) – selenium can’t automate applets

Integrates with 3rd party libraries

TestNG, Junit, Jenkins, Log4J, ApachePOI

Infrastructure – Jenkins, GitHub, Docker Grid, AWS/GCP

Google Maps – Canvas based/Single UI Layer - selenium can’t automate

Barcodes/ Captcha - selenium can’t automate

Games - selenium can’t automate

File Upload pop up - selenium can’t automate

Graphs, Pie charts - selenium can’t automate

Java - Appium