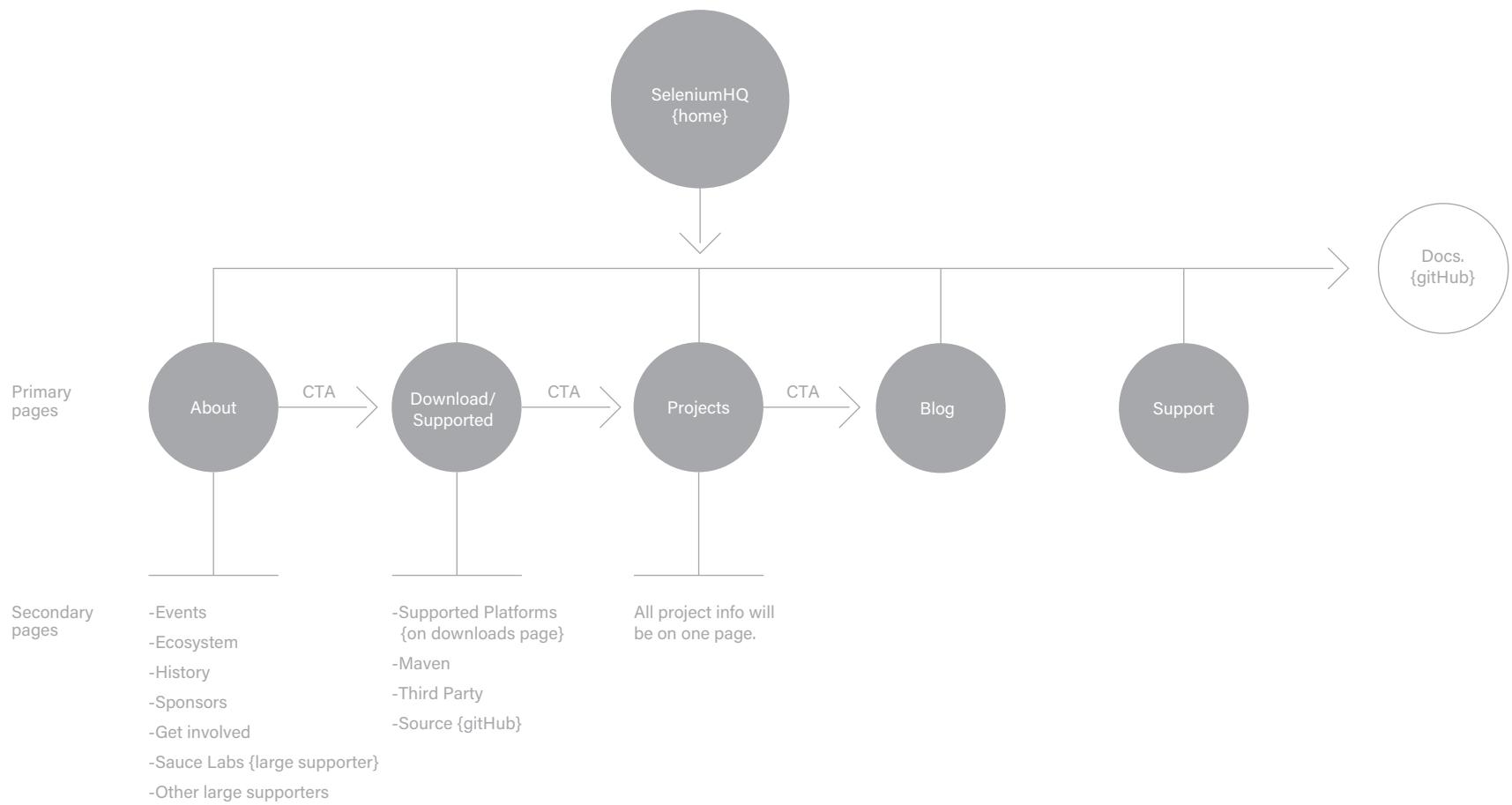


ps.design™

Selenium HQ website redesign
Visual Design 3.2 - Oct 5th 2017



*CTA - call to action

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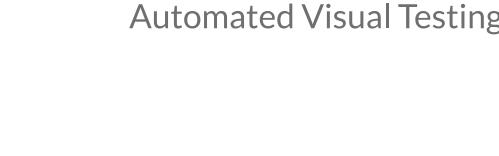
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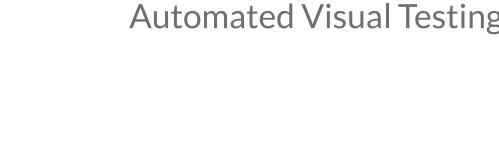
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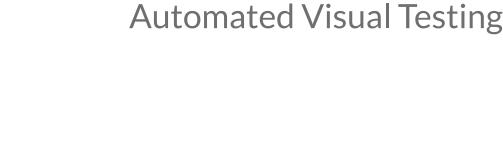
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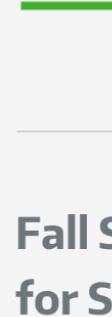
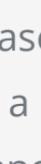
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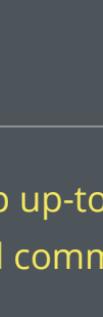
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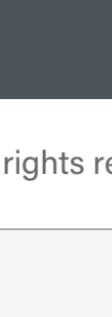
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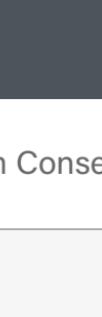
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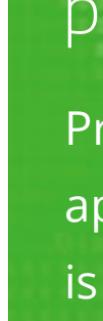
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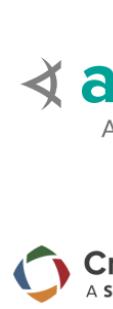
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The story starts in 2004 at ThoughtWorks in Chicago, with Jason Huggins building the Core mode as "JavaScriptTestRunner" for the testing of an internal Time and Expenses application (Python, Plone). Automatic testing of any applications is core to ThoughtWork's style, given the Agile leanings of this consultancy. He has help from Paul Gross and Jie Tina Wang. For them, this was a day job.

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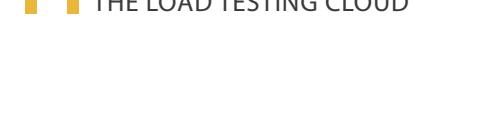
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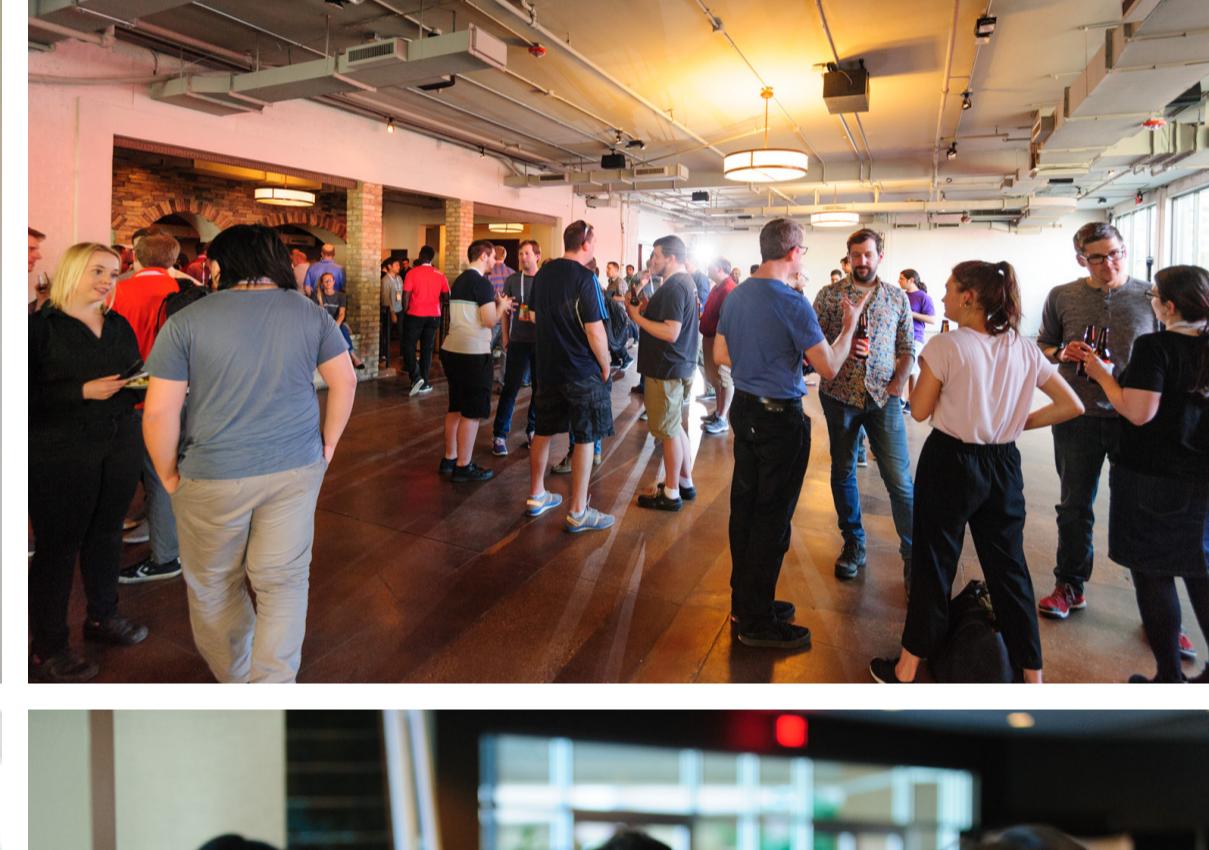
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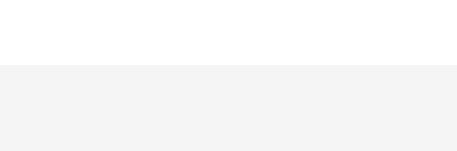
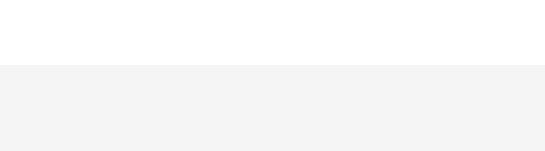
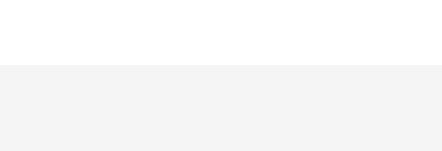
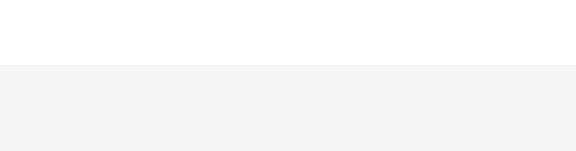
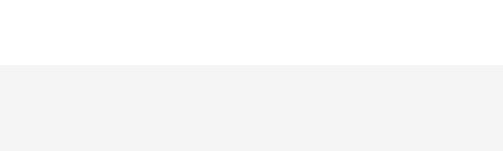
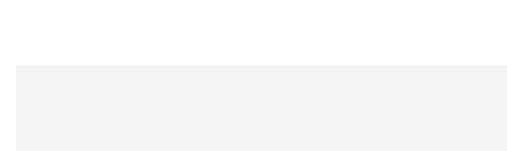
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cloud-based service to run Selenium tests faster and more easily.

[BrowserStack](#)

Selenium cloud testing in 300+ Real Desktop and Mobile Browsers.

[TestingBot](#)

easy cross browser testing with Selenium in the cloud.

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unlimited Selenium testing on all major browsers.

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test Selenium on 1000+ browsers and devices in the cloud.

[Ranorex](#)

test automation framework with Selenium WebDriver plug-in to easily create and manage tests and run them on

[Selenium](#)

supported platforms and browsers.

Monitoring & Load Testing Services

[Monitoring & Load Testing](#)

The no-coding real-browser load testing software that knows how many users your website can handle.

Tools with Selenium Support

[TestOptimal](#)

A Model-Based test automation tool leveraging the power of Selenium.

[Qualitia](#)

Scriptless test automation builder for Selenium.

[RedwoodHQ](#)

Open Source framework that allows users to develop automation code, create readable keyword driven test cases and execute them across multiple machines all under a single Web interface.

Commercial Support, Services & Training

[Element](#)

Selenium consulting, training and coaching.

[InfoStretch](#)

QA & automation services company with an expertise in Selenium.

[RTTS](#)

RTTS is a QA Consulting firm with introductory and advanced courses for Selenium.

[FACTory Consulting](#)

France-based firm delivering software testing services including Selenium training in french.

[Dev9](#)

Continuous Delivery software development consulting, including both Selenium and Sauce Labs.

[360logica](#)

Excellent lab for Selenium and WebDriver automation including continuous integration services.

[WeDoQA](#)

Selenium Automation, Custom Selenium Frameworks, Load testing using Selenium to simulate real usage.

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On-demand test automation services dedicated to Selenium.

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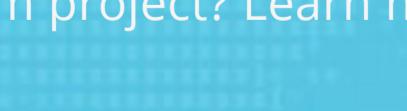
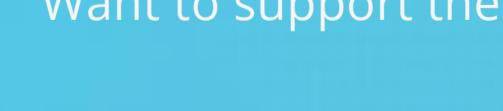
Online Training Courses, and consultancy, for Selenium WebDriver with Java.

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Jason started demoing the test tool to various colleagues. Many were excited about its immediate and intuitive visual feedback, as well as its potential to grow as a reusable testing framework for other web applications.

Soon after in 2004 fellow ThoughtWorker [Paul Hammant](#) saw the demo, and started discussions about the open sourcing of Selenium, as well as defining a 'driven' mode of Selenium where you'd get to use Selenium over the wire from a language of your choice, that would get around the 'same origin policy'. Other (then) colleagues, [Aslak Hellesoy](#) and [Mike Melia](#), experimented with different ideas for the 'server' piece, including page rewriting to get around the same origin policy. Paul wrote the original server piece in Java, and Aslak and [Obie Fernandez](#) ported that the client driver to Ruby, setting the foundation for drivers in yet more languages.

ThoughtWorkers in various offices around the world picked up Selenium for commercial projects, and contributed back to Selenium from the lessons learned on these projects. Mike Williams, [Darrell Deboer](#), and [Darren Cotterill](#) all helped with the increasing the capabilities and the robustness of it.

Meanwhile, outside of ThoughtWorks...

At [Bea](#), [Dan Fabulich](#) and [Nelson Sprout](#) came to the conclusion that the driver/server to browser architecture was not the most useful or flexible, so forked the driver code and crafted that into a standalone server that leveraged and bundled MortBay's Jetty as a web-proxy. When the code was merged back it became known as "Selenium Remote Control" and the old driven codeline and capability was retired.

[Pat Lightbody](#) became involved at the same time, with a commercial idea that required him to quit his day job (Jive Software). The idea was "Hosted QA", and it was eventually moved into [Gomez's](#) service line. Pat worked with Dan and Nelson making Selenium RC stable for large scale deployment. Pat had privately coded a grid for Hosted QA that took screenshots of browsers in various states, and was looking after multiple customers concurrently. Jason had the same hosted QA idea a year before, but did not quit his day job to do it.

In 2007 Dan moved to the rapidly growing [Redfin](#), which also part-time sponsors his time on Selenium, and encourages a speaking agenda.

Selenium-IDE: Made in Japan

[Shinya Kasatani](#) in Japan became interested in Selenium, and realised that he could wrap the core code into an IDE module into the Firefox browser, and be able to record tests as well as play them back in the same plugin. This tool, turned out an eye opener in more ways that was originally thought as it is not bound to the same origin policy.

Mike Williams got involved again in the Summer of 2006 where he led a team from ThoughtWorks China, primarily Wang Peng Chao, Huang Liang and Xiong Jie but with the help of others. They worked on improving Selenium Core with the goal of getting it closer to 1.0

Google Too!

Jason Huggins left Thoughtworks in 2007 and joined the (then secret) Selenium support team inside Google.

Jennifer Bevan (and other unnamed Googlers) had coded their own grid capability for Selenium RC, and deployed it internally for the testing of multiple public web applications. Google hosted a [GTAC](#) conference in New York and talked about their use of Selenium for the first time. Jennifer soon became a committer on the Selenium projects.

[Haw-bin Chai](#) in Chicago provided patches for XPath functionality and developed an extension called "UI Element" that makes the grammar of locators much simpler. He was invited into the Selenium development team in 2007.

Simon Stewart at ThoughtWorks had been working on a different web testing tool called WebDriver. It did not rely on JavaScript to do the heavy lifting, but instead had a client for each browser that was coded from scratch. It also had a 'higher level' API than Selenium-RC and showed lots of promise. Simon presented the tool at GTAC, and started work on compatibility with Selenium-RC, which gave rise to the obvious conclusion that the two projects should merge. Simon, at Google from 2007 to 2012, and now at Facebook, gets to spend some of his time making that a reality.

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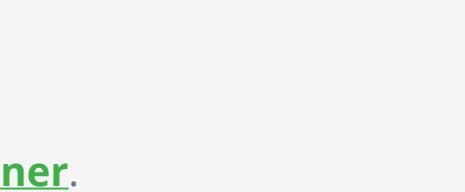
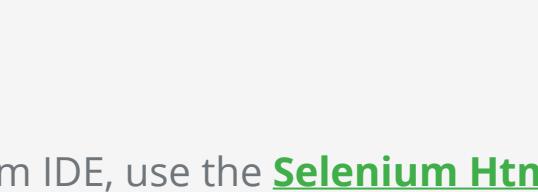
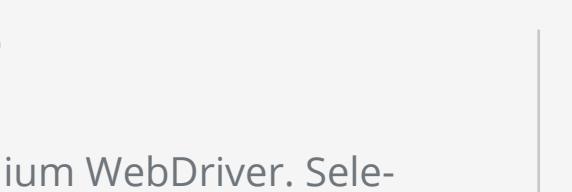
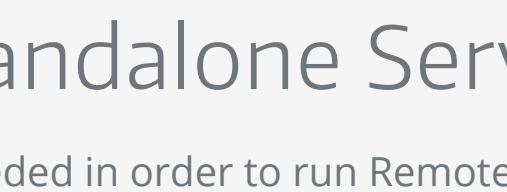
Documentation

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Downloads

Below is where you can find the latest releases of all the Selenium components. You can also find a list of [previous releases, source code](#), and additional information for [Maven users](#) (Maven is a popular Java build tool).

Selenium Supporters



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Download version [3.4.0](#)

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To use the Selenium Server in a Grid configuration [see the wiki page](#).

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Download version 3.4 for (recommended) [32 bit Windows IE](#) or [64 bit Windows IE](#)
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Python	3.4.0	2017-05-30	Download	Change log	API docs
Javascript (Node)	3.4.0	2017-04-21	Download	Change log	API docs

C# NuGet

NuGet latest release is 3.4.0, Released on 2017-04-21

[WebDriver](#)

[Support](#)

[WebDriverBackedSelenium](#)

[RC](#) (Final version 3.1.0 Released 2017-02-16)

Selenium IDE

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Download latest released version from [addons.mozilla.org](#) or view the [Release Notes](#) and then [install some plugins](#).

Download [previous versions here](#).

Maven Information

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Third Party Drivers, Bindings, and Plugins

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Platforms Supported by Selenium

+ Browsers

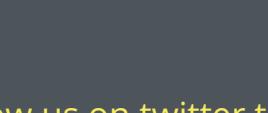
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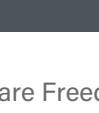
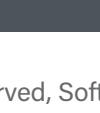
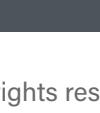
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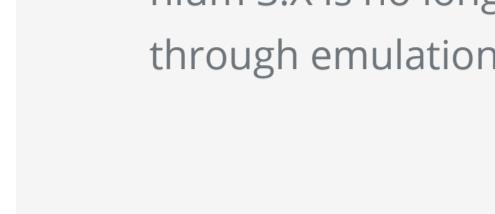


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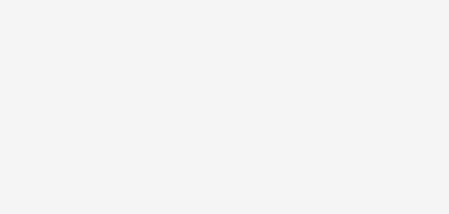
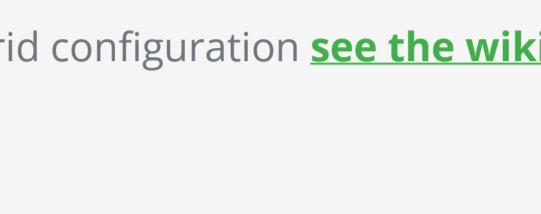
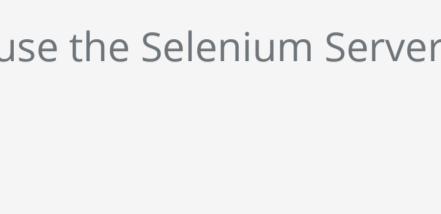
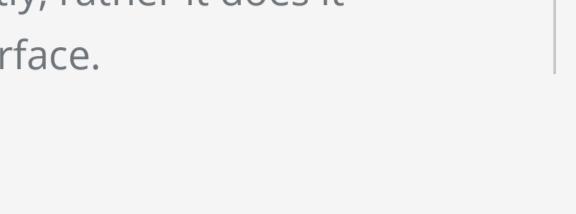
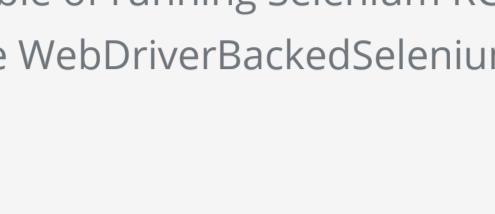
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× Browsers

Firefox

Support for Firefox is the latest release, the previous release, the latest ESR release and the previous ESR release.

For example Selenium 2.40.0 (released on Feb 19, 2014) supports Firefox 27, 26, 24, 17

Selenium with Firefox can be run on any platform that Firefox supports for those versions, that also allow users to install a custom Firefox extension.

Internet Explorer

Versions 7, 8, 9, 10 and 11 are supported. Version 11 requires [additional configuration](#).

The selenium project tests each release on Windows 7.

Safari

[SafariDriver](#) requires Safari 5.1+ (Note, due to Apple potentially dropping support for Safari 6.X for Windows, new developments in the bindings may not work in the Windows platform)

Opera

[OperaDriver](#) is supported by Opera Software, refer to their documentation for supported versions.

Chrome

[ChromeDriver](#) is supported by the Chromium project, please refer to their documentation for any compatibility information

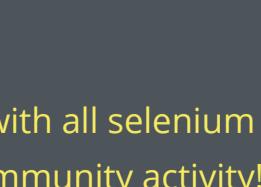
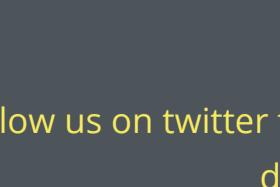
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+ 2.41			
+ 2.42			
+ 2.43			
+ 2.44			
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+ 2.47			
+ 2.48			
+ 2.49			
+ 2.50			
+ 2.51			
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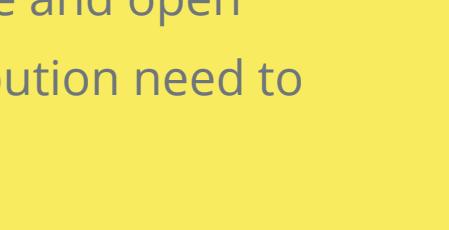
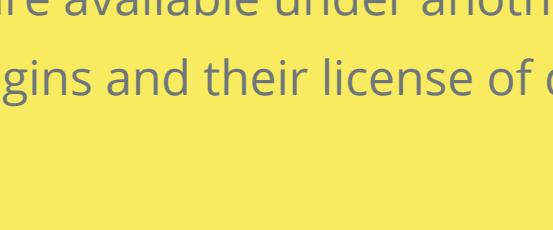
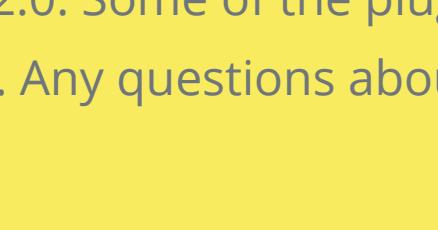
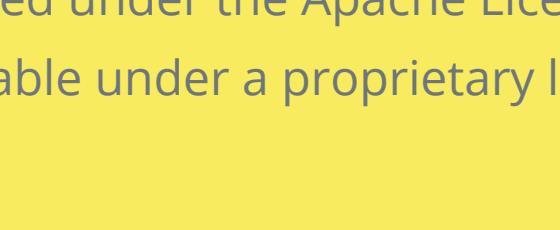
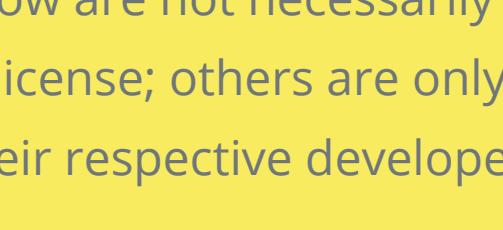
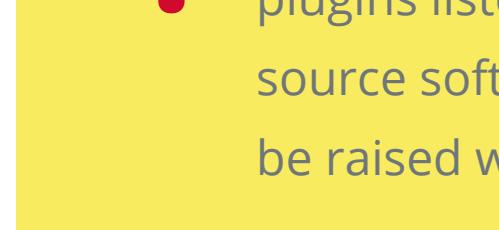
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Selenium Supporters



! Please note that these plugins are not supported, maintained, hosted, or endorsed by the Selenium project. In addition, be advised that the plugins listed below are not necessarily licensed under the Apache License v2.0. Some of the plugins are available under another free and open source software license; others are only available under a proprietary license. Any questions about plugins and their license of distribution need to be raised with their respective developer(s).

Third Party Browser Drivers

Browser	Version	Change log	Docs	More info	Release
Mozilla GeckoDriver	0.17.0	change log	issue tracker	Implementation Status	2017-06-15
Google Chrome Driver	2.30	change log	issue tracker	selenium wiki page	2017-04-21
Opera	2.27	change log	issue tracker	selenium wiki page	2017-06-15
Microsoft Edge Driver	0.17.0	change log	issue tracker	Implementation Status	2017-05-30
GhostDriver	2.30	change log	issue tracker	SeConf talk	2017-04-21
HtmlUnitDriver	2.27	change log	issue tracker	selenium wiki page	2017-06-15
SafariDriver	2.30	change log	issue tracker	SeConf talk	2017-05-30
Windows Phone	2.27	change log	issue tracker	selenium wiki page	2017-04-21

Third Party Language Bindings

Browser	Author
Perl download and docs	Gordon Child
Perl 6	Ahmad M. Zawawi
PHP	Chibimagic (real name unknown?)
PHP	Lukasz Kolczynski
PHP	Facebook
PHP	Nearsoft

Selenium GRID Plugins

Selenium grid can be extended by extending Java classes.

Move mouse away from screen

This plugin is made of 2 parts, a servlet that lives on the NODE machine and does the actual moving of the mouse, and an extension of the Selenium Grid, to send an HTTP request to the servlet before a new test session is started.

Links:	Version	Author	License:	Release
Proxy extension for Grid Node Servlet to move the mouse on	N/A	David Burns	Unknown	2012

VisGrid-UI for Selenium Grid 2.0

VisGrid is a GUI for Selenium Grid. You can start hub, create and attach a Selenium node very easily and quickly.

Links:	Version	Author	License:	Release
VisGrid-UI for Selenium Grid 2.0	1.0	Codoid	Apache License/Free	2014

Selenium IDE Plugins

Plugins that provide new / improved features.

Favorites

This plugin for Selenium-IDE gives you a way to mark your favorite test suites and open and execute them with a SINGLE click. [More info.](#)

Links:	Version	Author	License:	Release
Download Support	1.14	Samit Badle	Unknown	April 7, 2011

Flex Pilot X

A Selenium IDE plugin for integrating with Flex-Pilot, for Flex automation. [More info.](#)

Links:	Version	Author	License:	Release
Download Support	0.8.0	Adam Christian	Apache 2	8-28-2010

FlexMonkium

A plugin that adds Adobe Flex recording and playback to Selenium via the popular [FlexMonkey](#) open source testing framework. With FlexMonkium, Flex recording and playback is seamlessly interleaved with native Selenium recording and playback so you can easily automate the testing of hybrid web applications that mix html and Javascript with Flex. In addition to creating and running Flex tests inside the Selenium IDE, you can export your hybrid testing scripts as JUnit 4 tests that run with Selenium-RC to easily enable automated testing and continuous integration.

Links:	Version	Author	License:	Release
Download Support	4.1.5	Gorilla Logic	Unknown	1-16-2011

File Logging

This plugin for Selenium-IDE saves log messages to a file in real time at a user selectable log level. Once this plugin is installed, a FileLogging tab will be added to the options dialog and a FileLogging menu will be added to the log pane. [More info.](#)

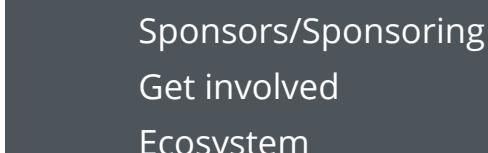
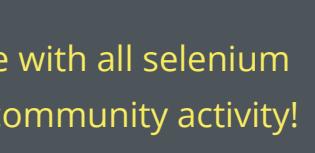
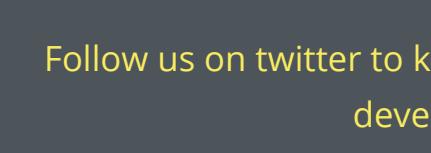
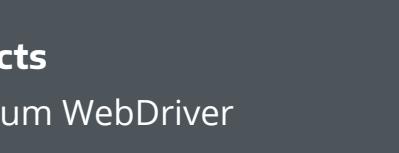
Links:	Version	Author	License:	Release
Download Support	1.7	Samit Badle	Unknown	2012

Flow Control

Incorporates the flow control extension available [here](#) and [here](#).

Links:	Version	Author	License:	Release
Download Support	1.0.3	Dave Hunt	Apache License/Free	2014

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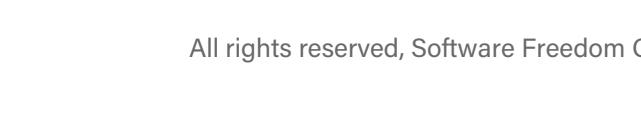


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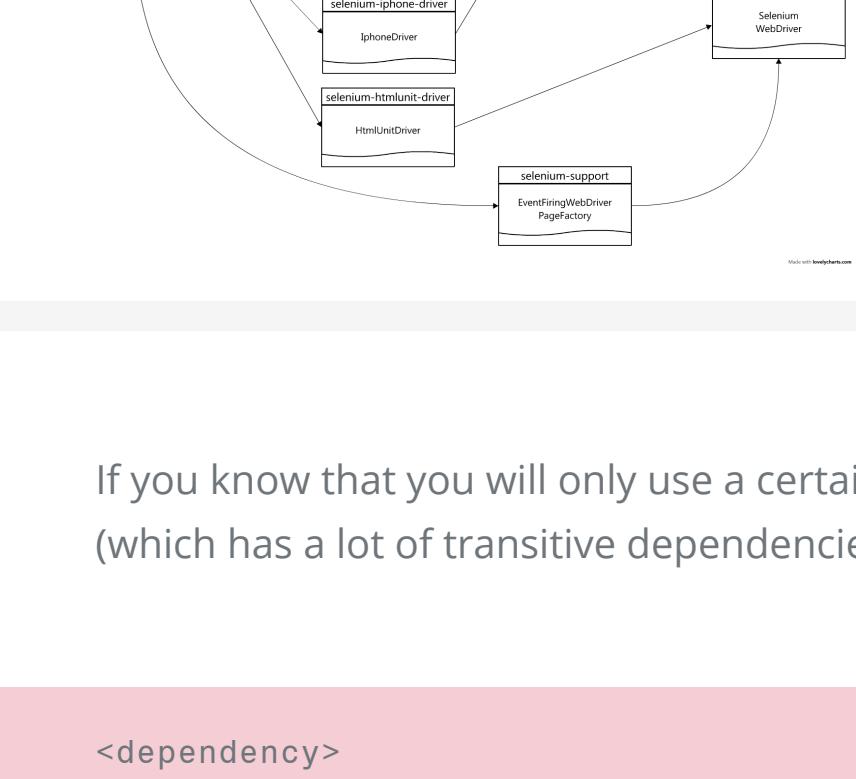
If you're using Maven, you will find all Selenium Maven artifacts directly in the central Maven repository [here](#).

In order to start using DefaultSelenium or one of the new WebDriver implementations in your Maven project, just add the following dependency to your pom.xml:

```
<dependency>
  <groupId>org.seleniumhq.selenium</groupId>
  <artifactId>selenium-java</artifactId>
  <version>3.4.0</version>
</dependency>
```

Note: Before version 2.0rc3 the artifact was named selenium-remote-control.

To get an overview of the different Selenium Maven artifacts, click on the thumbnail to open a diagram, which shows the dependencies between the Selenium Maven artifacts as well as the most important classes/interfaces in those artifacts:



If you know that you will only use a certain WebDriver implementation, e.g. the FirefoxDriver, you don't need to depend on the selenium-java artifact (which has a lot of transitive dependencies). Instead you can just add the dependency on the artifact you need, e.g.

```
<dependency>
  <groupId>org.seleniumhq.selenium</groupId>
  <artifactId>selenium-firefox-driver</artifactId>
  <version>3.4.0</version>
</dependency>
```

Starting with 2.53.0 you need to explicitly include HtmlUnitDriver as a dependency to include it. Version number of the driver is now tracking HtmlUnit itself.

```
<dependency>
  <groupId>org.seleniumhq.selenium</groupId>
  <artifactId>htmlunit-driver</artifactId>
  <version>2.24</version>
</dependency>
```

If you are using DefaultSelenium (or the RemoteWebDriver implementation), you still need to start a Selenium server. The best way is to download the selenium-server-standalone.jar from the [Selenium Downloads page](#) and just use it. Furthermore you can also embed the Selenium server into your own project, if you add the following dependency to your pom.xml:

```
<dependency>
  <groupId>org.seleniumhq.selenium</groupId>
  <artifactId>selenium-server</artifactId>
  <version>3.4.0</version>
</dependency>
```

Now you can create a SeleniumServer instance yourself and start it

Note: Be aware, that the selenium-server artifact has a dependency to the servlet-api-3.1.0 artifact, which you should exclude, if your project will be run inside a web application container.

Third Party Browser Drivers

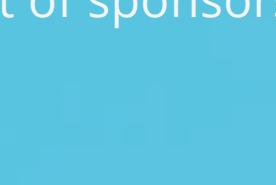
! NOT SUPPORTED/DEVELOPED by SeleniumHQ

```
<dependency>
  <groupId>com.github.detroy</groupId>
  <artifactId>phantomjsdriver</artifactId>
  <version>1.4.0</version>
</dependency>
```

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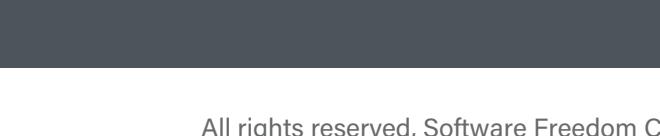
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Selenium WebDriver
Selenium Grid
Selenium Remote Control
Selenium IDE

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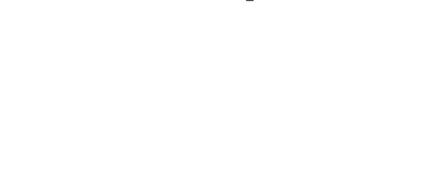
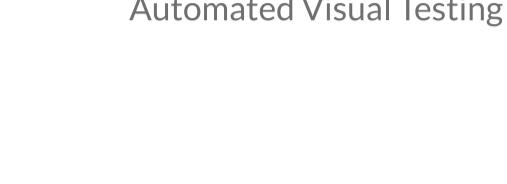
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Selenium has many projects that combine to make a versatile testing system.

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Selenium WebDriver

Selenium WebDriver can drive a browser natively either locally or on remote machines.

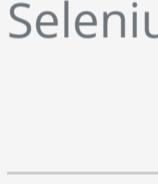
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Selenium Grid takes Selenium Remote Control to another level by running tests on many servers at the same time, cutting down on the time it takes to test multiple browsers or operating systems.

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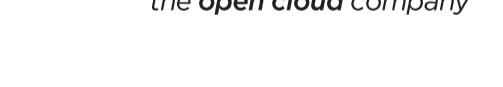
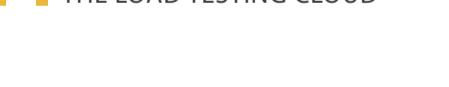
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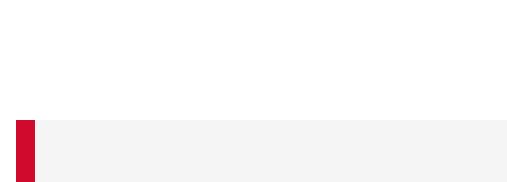
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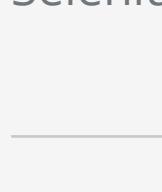
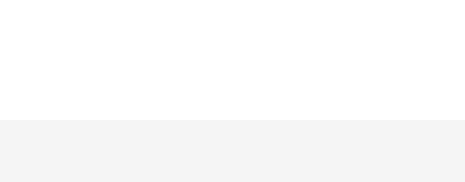
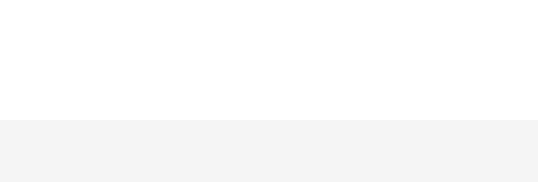
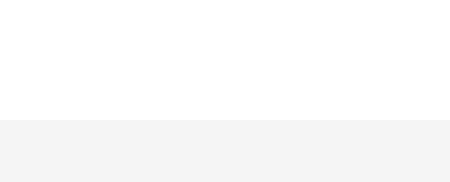
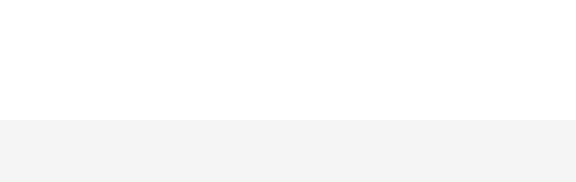
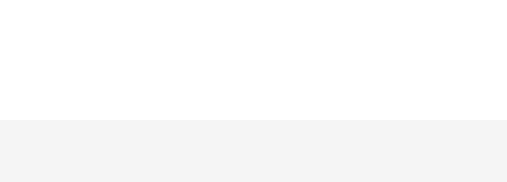
Selenium Projects

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Automated Visual Testing



Selenium WebDriver

Selenium WebDriver can drive a browser natively either locally or on remote machines.

The biggest change in Selenium recently has been the inclusion of the WebDriver API. Driving a browser *natively as a user would* either locally or on a remote machine using the Selenium Server it marks a leap forward in terms of browser automation.

Selenium WebDriver fits in the same role as RC did, and has incorporated the original 1.x bindings. It refers to both the language bindings and the implementations of the individual browser controlling code. This is commonly referred to as just "WebDriver" or sometimes as Selenium 2.

[Selenium 1.0 + WebDriver = Selenium 2.0](#)

- WebDriver is designed in a simpler and more concise programming interface along with addressing some limitations in the Selenium-RC API.
- WebDriver is a compact Object Oriented API when compared to Selenium1.0
- It drives the browser much more effectively and overcomes the limitations of Selenium 1.x which affected our functional test coverage, like the file upload or download, pop-ups and dialogs barrier
- WebDriver overcomes the limitation of Selenium RC's [Single Host origin policy](#)

WebDriver is the name of the key interface, against which tests should be written in Java, the implementing classes one should use are listed as below:

[ChromeDriver](#), [EventFiringWebDriver](#), [FirefoxDriver](#), [HtmlUnitDriver](#), [InternetExplorerDriver](#), [PhantomJS](#)[Driver](#), [RemoteWebDriver](#), [SafariDriver](#)

For More information on Selenium WebDriver, please see [the documentation](#) and [Remote Control to WebDriver Migration Notes](#).

[– Show less](#)



Selenium Grid

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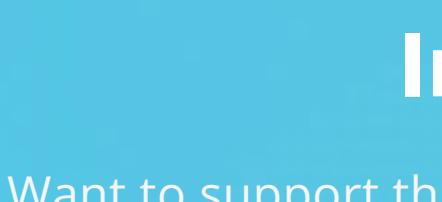
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Getting Help

If you find any problems using Selenium, there are several places where you can search for help and where volunteers like you and me will spend their time trying to help you save yours.

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User Group

The first place where people ask for help about Selenium is the [Official User Group](#). Here, you'll find that most of the time, someone already found the problem you are facing right now, and usually reached the solution for which you are looking.

Note: Please make sure to search the group before asking for something. Your question likely won't get answered if it was previously answered in another discussion!

Chat Room

The best place to ask for help is the user group (because they also keep the information accessible for others to read in the future). However, if you have a very important (or too simple) issue that needs a solution ASAP, you can always enter the [IRC chat room](#). You might just find someone ready to help on #selenium at Freenode (irc.freenode.net). There is more info about [IRC on wikipedia](#).

The #selenium IRC log archive is available at [botbot](#).

Bug Tracker

Selenium's [Bug Tracker](#) can be used to log new bugs, check the status of an existing one or as inspiration to help make Selenium better.

Commercial Support

Selenium is a diverse project and many commercial services have sprouted up to support it, some of which offer professional support for using and developing with Selenium.

First please check out our [Sponsors](#) for your needs.

You can also learn more about the [Selenium ecosystem](#) to see if there is a company that might be able to help you out.

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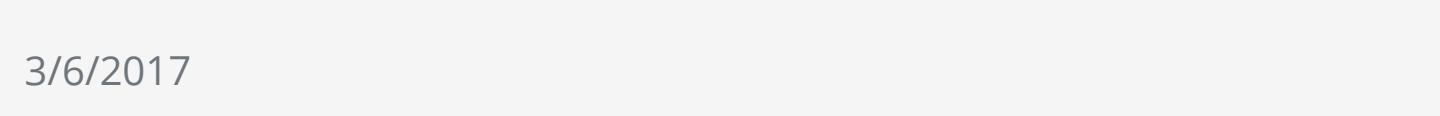
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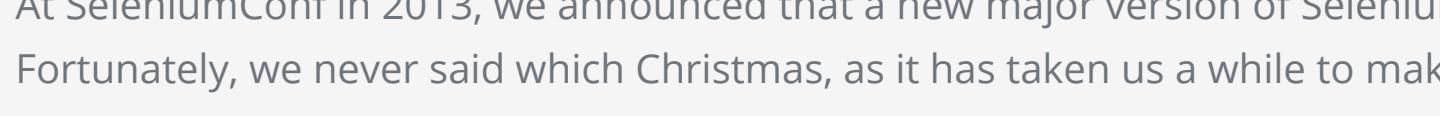
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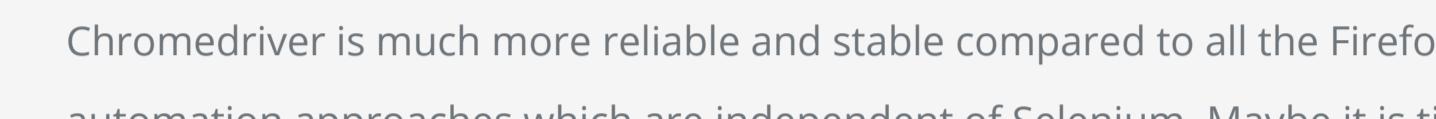
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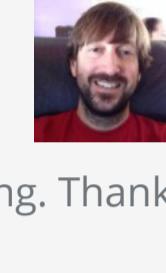
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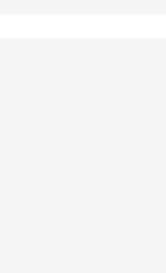
2 Comments

1. It seems like Selenium is slowly dying, at least for Firefox. Geckodriver is still in an unusable state, and progress is not really happening. Very many companies are stuck with Firefox 47 and have no clue how to proceed with Firefox test automation. The end of Selenium IDE is another step in this direction. Since a long time Chromedriver is much more reliable and stable compared to all the Firefox stuff. And Chrome develops its own test automation approaches which are independent of Selenium. Maybe it is time for a new approach to Browser automation.



Comment by [Lars Frantzen](#) — August 11, 2017 @ 7:44 am UTC | [Reply](#)

2. Is 55 the actual version when IDE will stop working? The article you link to states "By the end of 2017, and with the release of Firefox 57, we'll move to WebExtensions exclusively, and will stop loading any other extension types on desktop." I'm not sure if there is something else in 55 that will cause IDE to stop working. Thanks



Comment by [Rob Mason](#) — August 14, 2017 @ 7:32 am UTC | [Reply](#)

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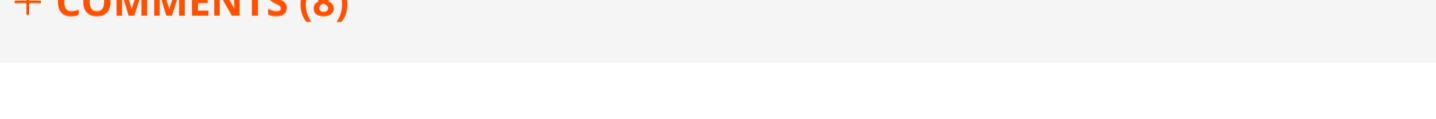
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PROPOSED SELENIUM PROJECT LOGOS - STACKED



Selenium WebDriver



Selenium Grid



Selenium IDE

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BRAND COLORS



pms 361c

RGB 67 176 42

HEX/HTML 43B02A

CMYK 77 0 100 0



20% 45% 70%



pms 286c

RGB 0 51 160

HEX/HTML 0033A0

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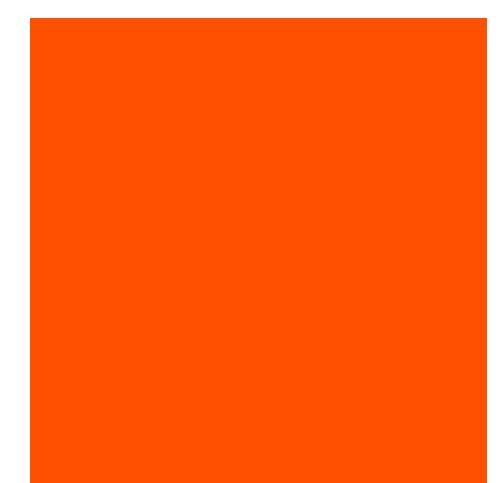
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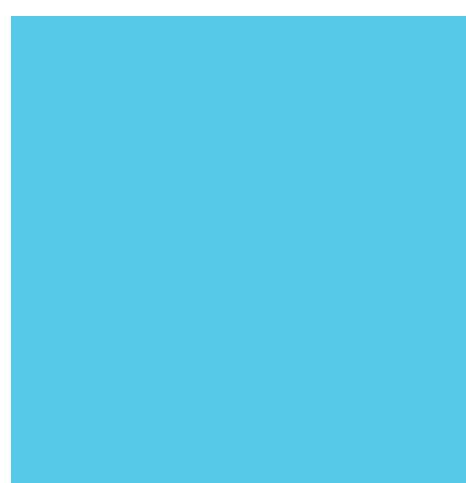
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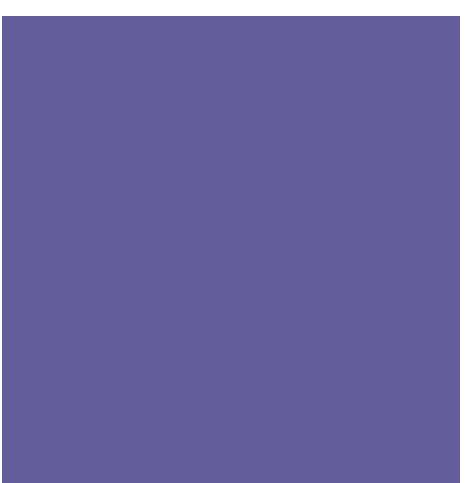
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20% 45% 70%

GRAYS



gray 1

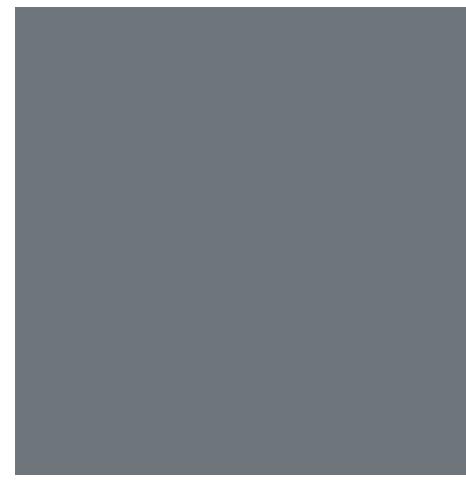
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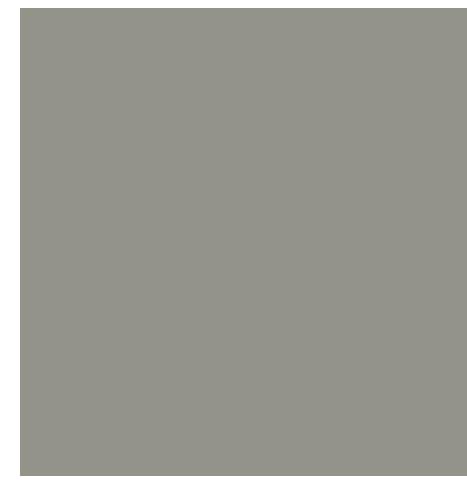
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20% 45% 70%

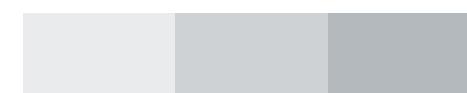


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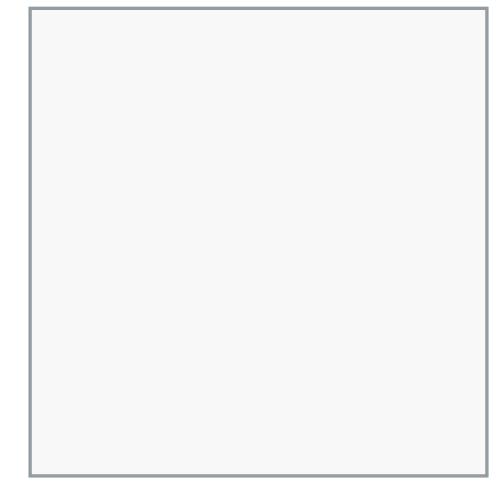
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CMYK 5 0 0 45



20% 45% 70%



gray 5

RGB 248 248 248

HEX/HTML F7F8F8

CMYK 0 0 0 2



20% 45% 70%



Thank you for your time.