



USABILITY AND ADOPTION

	Using Selenium WebDriver with hand-written code	Using LEAPWORK, which uses Selenium under the hood
Programming needed	Can only be used by programmers, who get low-level access to browser behavior and actions through using any programming language (C#, Java, Python, PHP, etc).	Can do the exact same thing with easy-to-use building blocks, and without having to read or write a single line of code. Perfect for non-technical users – or anyone who just doesn't want to spend time on programming.
Enterprise support	No enterprise support exists, the Selenium project is run by the open source community.	On-demand live support from automation specialists.
Data-driven automation	Data-driven automation requires sophisticated programming and separate management and storage of data assets.	Data-driven automation is included out of the box. It is done by visually connecting data sources such as databases, API endpoints and Excel files with other building blocks.
Finding web elements	Uses highly complex CSS or XPath "selectors", which require deep technical knowledge.	Point and click to capture any web element. Smart algorithms then automatically find the best way to locate it again in the future.
Road-map influence	Although Selenium is open source, the only way to influence the road map is to actively participate in the community programming effort for Selenium itself.	All enterprise users have direct access to live chat and product team representatives. About a third of all product development is a result of this dialogue.
Training materials	A good ecosystem and lots of code samples exist on the internet for professional programmers to use. Some tutorials on YouTube and many professional courses exist but require technical skills.	All users have access to a comprehensive learning center with many hours of free videos. Enterprise users can participate in a professional certification program.
Speed of adoption	Typically takes 3-6 months for an initial project, then another 6-12 months for framework programming.	Most users are able to adopt within 3-5 days, using a structured learning and on-boarding program.



DOCUMENTATION AND GOVERNANCE

	Selenium WebDriver	LEAPWORK
Reporting and dashboards	No reporting or dashboard solution is included. Programmers can custom-build their own reporting framework (typically takes 3-6 months).	Reporting and dashboards are included out of the box. Results can also be pushed to other tools such as JIRA.
Automatic video recording	Video recording is not included and is very difficult to achieve, even with a custom-built solution. Programmers are typically limited to saving screenshots with no retention policy.	Everything is automatically recorded on video, and a retention policy can ensure old videos are automatically deleted.
Object repository and version history	An object repository is not included, but programmers can custom-build their own and decide on implementing code patterns such as Page Object Model. Version history can be achieved using source control systems such as Git, which most non-technical users find impossible to navigate.	All assets such as web element locators and flows are structured and stored in an encrypted database with built-in version history.
Access control	No access control is included and is difficult to achieve with a custom-built solution.	Access control, both locally in the encrypted database and through Active Directory is included.
Tamper-proof audit trails	No audit trail capability is included and is difficult to achieve with a custom-built solution.	All data is stored in an encrypted database with no direct access. Even administrators cannot change the audit log.



APPLICATIONS SUPPORTED

	Selenium WebDriver	LEAPWORK
SAP GUI	SAP GUI is not supported. Selenium only supports web applications and it's not possible to access elements in desktop applications outside the browser.	Works across all technologies. SAP GUI is natively supported.
Windows applications	Windows applications outside browsers are not supported.	Works across all technologies. All Windows technologies such as WinForms and WPF are natively supported.
Citrix applications	Citrix applications are not supported.	Works across all technologies. Citrix and other virtualization technologies are supported with advanced text and image recognition capabilities.
Mainframe applications	Mainframe terminal applications are not supported.	Works across all technologies. Mainframe terminal applications are supported with advanced text and image recognition capabilities.
Java, IBM, and Oracle applications	Java applications, including IBM and Oracle Forms are not supported.	Works across all technologies. Java, IBM, and Oracle Forms applications are natively supported, including the older Java 1.6 standard.



TEST EXECUTION AND INTEGRATIONS

	Selenium WebDriver	LEAPWORK
Scheduling	No scheduler is included. Programmers can use a unit-test framework in combination with a custom-built scheduler or build pipeline.	Scheduling and ad-hoc running is included out of the box. Flows can also be triggered from a build pipeline or other third-party system.
Parallelization	Can run in distributed, parallel environments, but requires programmers to build a custom automation framework (typically takes 6-9 months).	Can run in distributed, parallel environments out of the box, including on BrowserStack, Sauce Labs and Selenium Grid as well as on LEAPWORK agents, where web, desktop and virtual applications can be automated together.
Built-in REST API	No REST API is included, but the WebDriver wire protocol is open source, and custom-built REST APIs can be made by programmers.	A full-fledged REST API is included out of the box, making it easy for DevOps to integrate with any third-party system.
Built-in CI/CD plugins	Any CI/CD platforms can be used by custom-built solutions. A good ecosystem and lots of code samples exist on the internet for professional programmers to use.	All popular CI/CD platforms can easily be integrated by DevOps using plugins or the REST API.

Go Ahead, Automate Today

Try the LEAPWORK Automation Platform for yourself or book your product demonstration today.

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