

# Week 8: Web Testing with Selenium

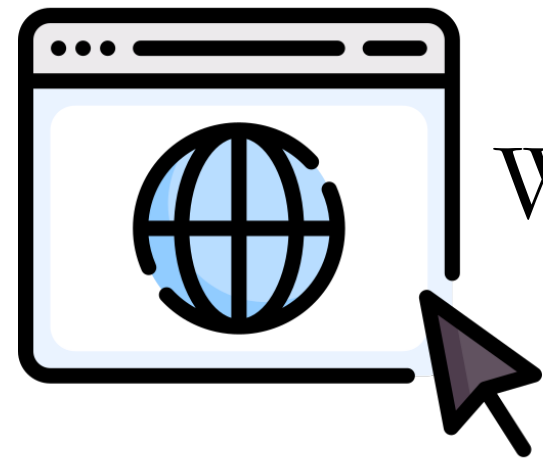
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6CCS3SMT/7CCSMASE Software Measurement and Testing

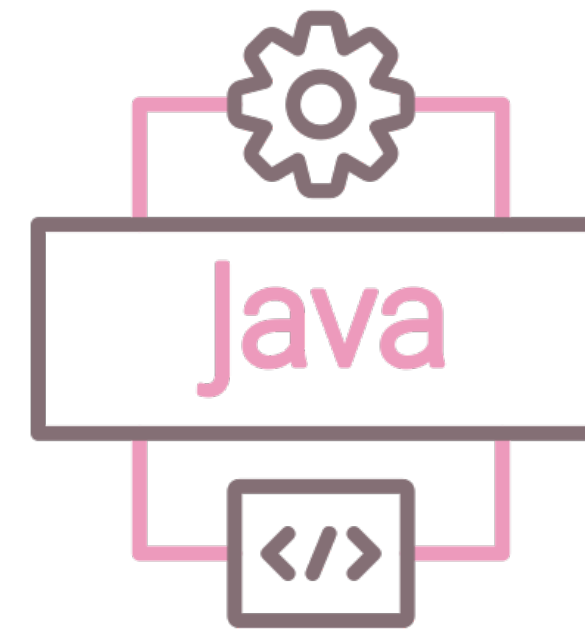
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# Selenium

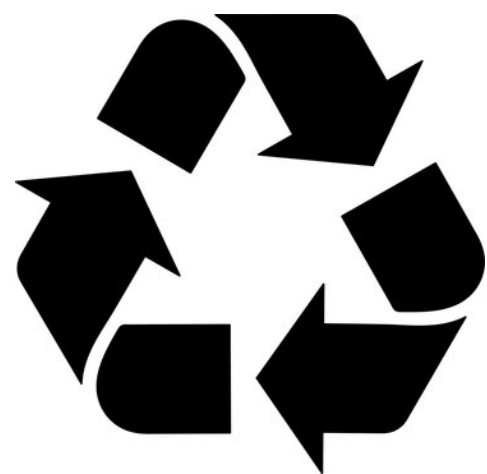
Selenium is an open-source framework used for automating web browser actions, primarily for testing purposes. It allows developers and testers to create automated scripts that simulate user interactions with web applications, such as clicking buttons, entering text, navigating pages, and verifying content.



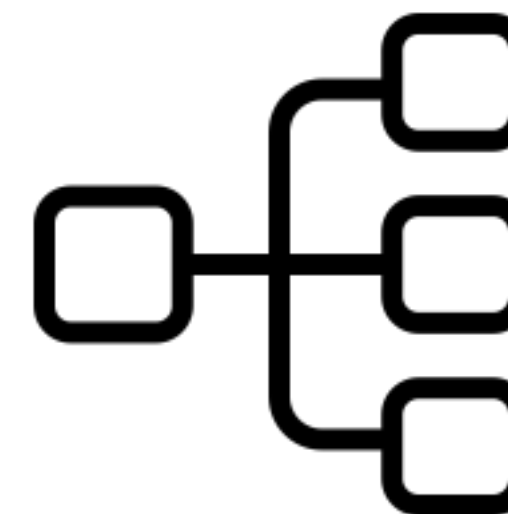
Works with major web browsers



Support multiple programming languages



Allows for reusability of test scripts

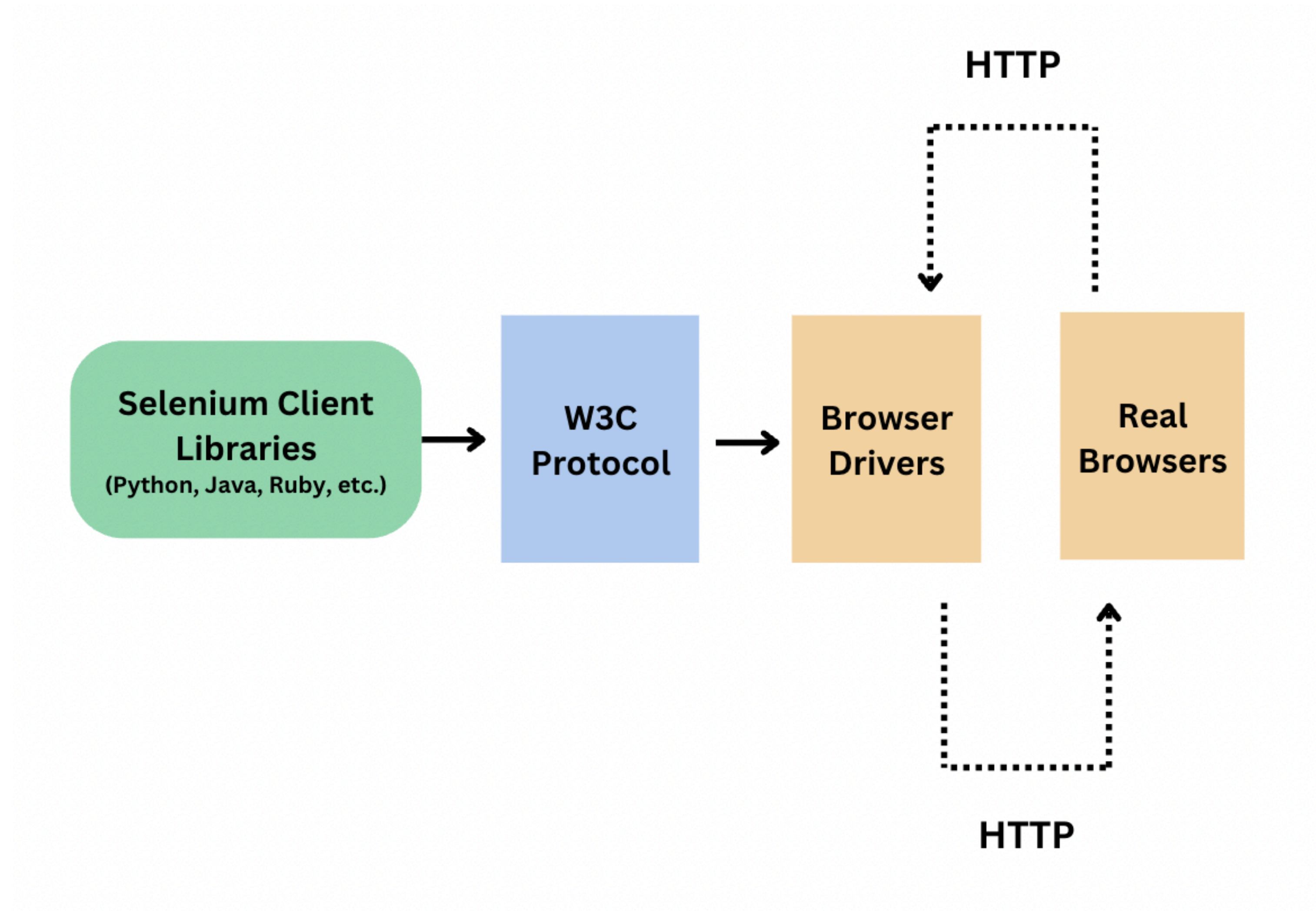


Supports parallel test execution



Easy to integrate into CI/CD pipelines

# Selenium WebDriver



# Selenium WebDriver

**Package** org.openqa.selenium

## Interface WebDriver

All Known Implementing Classes:

ChromeDriver, ChromiumDriver, EdgeDriver, FirefoxDriver, InternetExplorerDriver, RemoteWebDriver, SafariDriver

```
WebDriver driver = new ChromeDriver();
driver.get("https://www.example.com");
String pageTitle = driver.getTitle();
System.out.println("Page Title: " + pageTitle);
```

void	<b>get</b> (String url)	Load a new web page in the current browser window.
@Nullable String	<b>getCurrentUrl</b> ()	Get a string representing the current URL that the browser is looking at.
@Nullable String	<b>getPageSource</b> ()	Get the source of the last loaded page.
@Nullable String	<b>getTitle</b> ()	Get the title of the current page.