

# Selenium Fundamentals, Part 2 of 2: WebDriver

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**Meet the expert:** Brigitte Birze is a seasoned software development professional with over 25 years of experience in Corporate IT and Engineering across many verticals. Brigitte has been involved in every phase of the software development lifecycle from the perspective of several roles: individual contributor, team lead, S/W architect, system engineer, proposal author, and project manager. Her innovative software architectures have resulted in six published papers and eight patents. Brigitte's dynamic communication skills, paired with her depth and breadth of technical knowledge, give her the unique ability to make the complex understandable and to convey technical concepts to cross-functional groups, speaking at the business or technical level.

**Prerequisites:** Selenium supports the following programming languages, Java, C#, Python, Ruby, JavaScript (Node) and other languages using 3rd party plug-ins. The course is taught using Java but the ideas and theories apply to all languages listed. You should have some knowledge and experience programming web applications in the programming languages listed to understand how Selenium works. Please view the course Selenium Fundamentals: IDE before viewing this course.

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**Course description:** WebDriver is the main tool in the Selenium tools suite, with the ability to natively drive a web application in the same way a human user would. This course will give you the basics you need in order to create WebDriver applications. You'll be learning how to build with the WebDriver libraries, configure WebDriver to talk natively to the different browsers and use the main WebDriver classes to exercise your web applications.

## Course outline:

### Setup Projects

- Introduction
- Selenium WebDriver
- Selenium WebDriver Projects
- Demo: Java Selenium Project
- Demo: Setup a Maven Project
- Selenium Drivers
- Chrome Driver
- Internet Explorer Driver
- Safari Driver
- Demo: Launching Browsers
- Demo: Download Drivers
- Demo: Web Driver Interface
- Demo: Instantiate the Driver
- Summary

- Demo: Select Class Interrogation
- Summary

### WebDriver Commands

- Introduction
- Fetching Web Elements
- Interacting with Web Elements
- WebDriver Verifying Web Elements
- Demo: Using the Web Element
- Demo: Verify & Exercise
- Demo: Radio Buttons & Submit
- Handling Select Elements
- Demo: selectDropdown UI Elements
- Demo: Using the Select Class