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Automation Testing

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Introduction to Autolt



A Day in the Life of an Automation Test Engineer

Joel, an Automation Test Engineer, wants to automate web applications.

As an Automation Test Engineer, we sometimes encounter a challenge to automate browser windows in scenarios, like downloading or uploading an image. Selenium cannot interact with browser windows. In such scenarios, we use another test automation tool called Autolt.

To know more about it, let us go through this lesson.



Learning Objectives

By the end of this lesson, you will be able to:

- 🕒 Explain AutoIT tool
- 🕒 Comprehend the features of Autolt
- 🕒 Create and upload files using Autolt Extension
- 🕒 Execute files using Autolt Script



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Introduction to Autolt

Introduction to Autolt

Autolt is a freeware scripting language designed for automating windows GUI and general scripting.



It uses a combination of simulated keystrokes, mouse movement, and window or control manipulation to automate tasks in a way not possible or reliable with other languages (or even not possible via Selenium).



Features of Autolt

The features of the Autolt tool are as follows:

- Easy to learn BASIC-like syntax

- Simulates keystrokes and mouse movements

- Manipulates windows and processes

- Interacts with all standard windows controls

- Compiles the scripts into standalone executables



Features of Autolt

Creates Graphical User Interfaces (GUIs)

Provides regular expression support

Directly call external DLL and Windows API functions

Provides scriptable RunAs functions

Provides detailed helpfile and large community-based support forums



Download Autolt and Script Editor

Steps are as follows:

- Navigate to the official homepage of Autolt (<https://www.autoitscript.com/site/autoit/>).
- Click on the Download link as shown below. This will start the download of an executable file.
- Double-click the executable file, and click on Next multiple times to install it as normal Windows software.

Download

Take me to the [downloads](#) page!



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Handling File Uploads With Autolt

Uploading File in Selenium Using Autolt

Uploading a file is a four steps process:

Step 1

Identify the windows control

Step 2

Build an Autolt script using identified windows control

Step 3

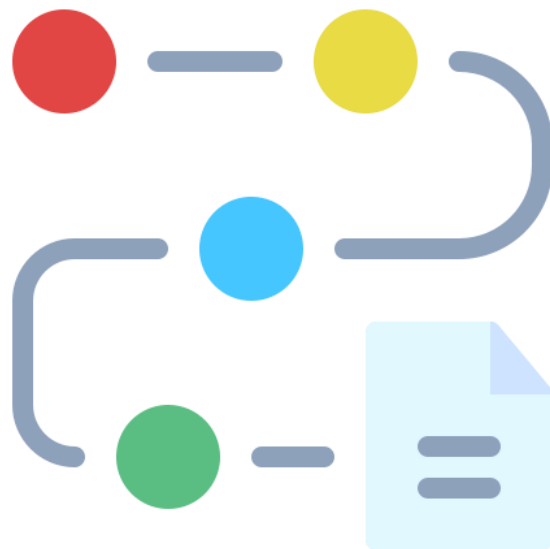
Compile the .au3 script and convert it into a .exe file

Step 4

Call the .exe file into the Selenium test case

Uploading File in Selenium Using Autolt

Upload an image on Google images:



Steps to perform in this scenario:

- Navigate to <https://images.google.com>.
- Click the Upload an image button and Select File Upload. This opens a windows screen.
- Enter the path of the image file to upload.
- Press Enter, this will upload the file.

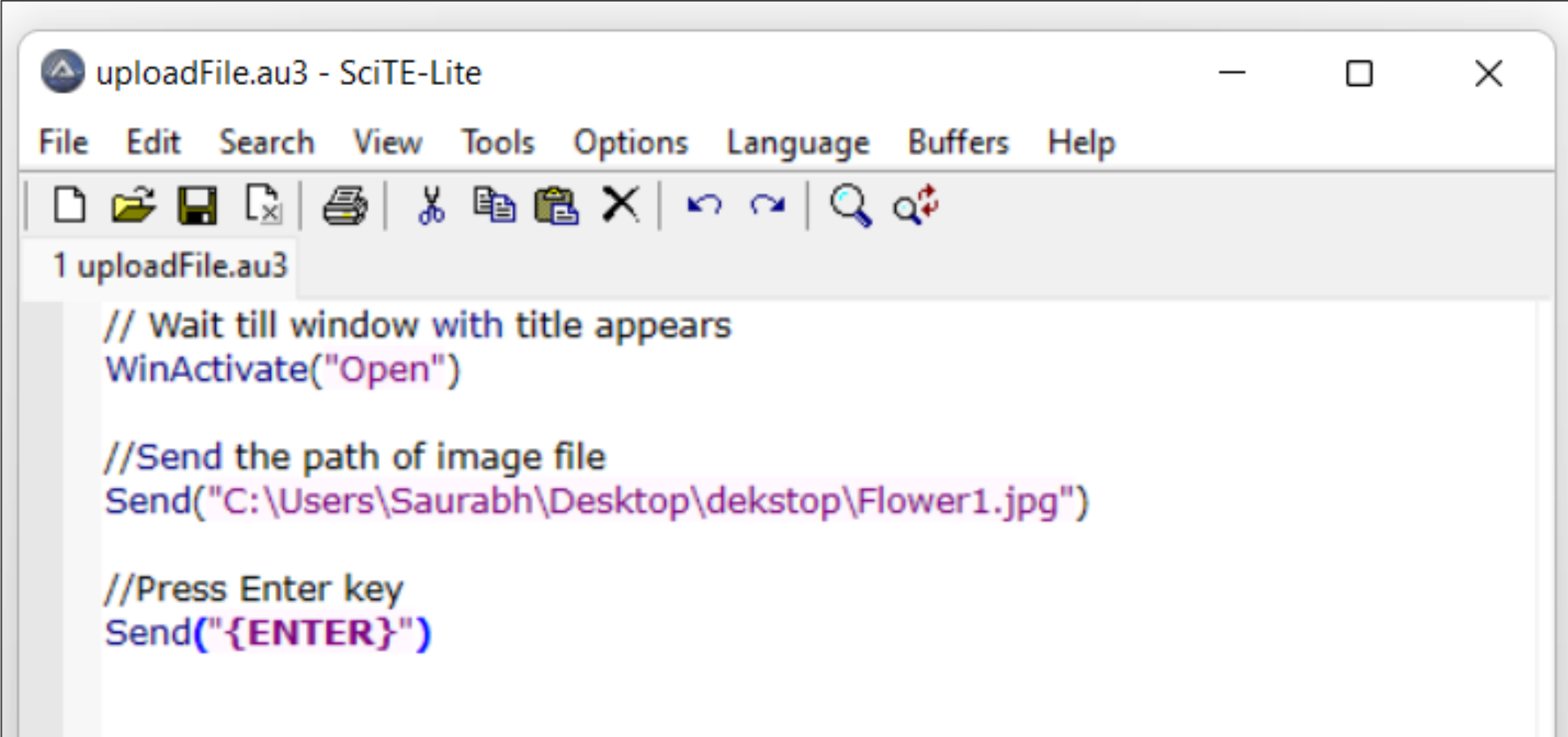
Uploading File in Selenium Using Autolt



- Steps 1 to 3 can be performed via Selenium WebDriver.
- From step 4 onwards, a window screen opens. This window screen cannot be handled via Selenium.
- Autolt will be used in this scenario to interact with windows screen.
- Autolt script editor can be used to write the scripts and create an executable file.
- This executable file can then be called via **Runtime.getRuntime()** method provided by Java.

Uploading File in Selenium Using Autolt

The following script can enter text to the File Upload window and press Enter:

A screenshot of a SciTE-Lite window titled 'uploadFile.au3 - SciTE-Lite'. The window has a menu bar with 'File', 'Edit', 'Search', 'View', 'Tools', 'Options', 'Language', 'Buffers', and 'Help'. Below the menu is a toolbar with icons for file operations like open, save, print, copy, paste, and undo. The main text area contains an AutoIt script with three sections: a comment and command to activate a window titled 'Open', a comment and command to send a file path, and a comment and command to press the Enter key.

```
// Wait till window with title appears
WinActivate("Open")

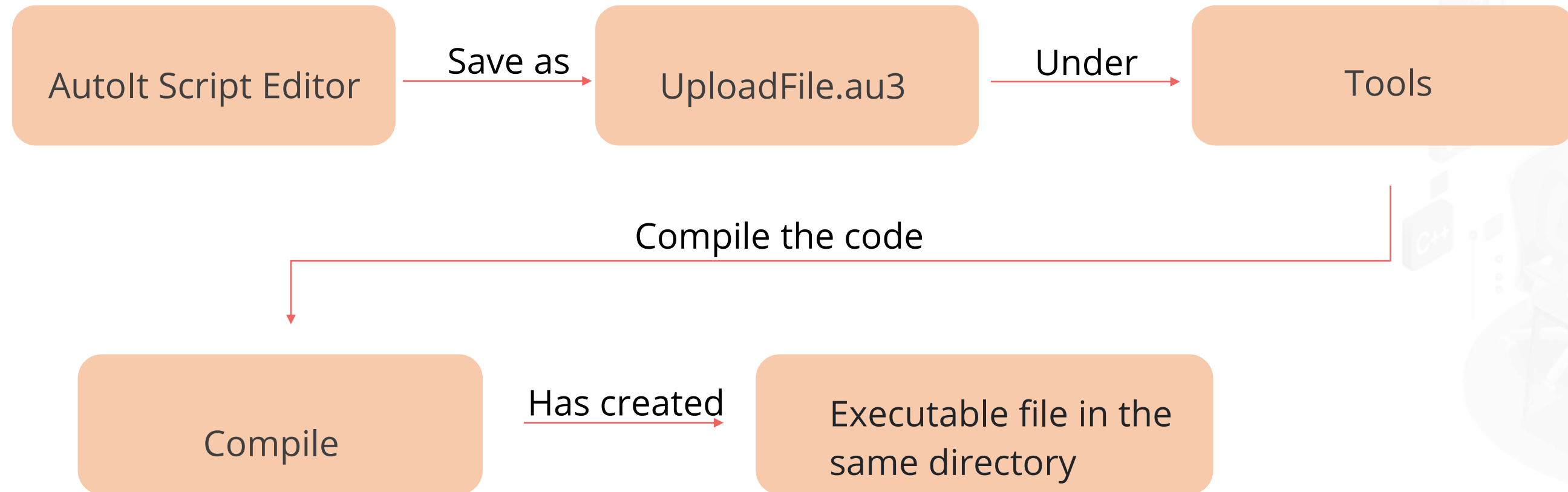
//Send the path of image file
Send("C:\Users\Saurabh\Desktop\dekstop\Flower1.jpg")

//Press Enter key
Send("{ENTER}")
```



Executable File From the Autolt Script

Creating an executable file from the Autolt script is as follows:



Call the .exe File Into the Selenium Test Case

The following code refers to calling the executable file from the Java code:

```
public class ImageUploadScenario {  
  
    public static void main(String[] args) throws IOException {  
        ChromeDriver driver;  
        String url = "https://images.google.com";  
  
        System.setProperty("webdriver.chrome.driver",  
                           "C:\\\\Users\\test\\workspace\\libs\\chromeDriver36\\chromedriver.exe");  
  
        // \n \t -- escape character  
        driver = new ChromeDriver();  
  
        driver.manage().window().maximize();  
  
        driver.manage().deleteAllCookies();  
  
        driver.manage().timeouts().pageLoadTimeout(90, TimeUnit.SECONDS);  
  
        driver.manage().timeouts().implicitlyWait(6, TimeUnit.SECONDS);  
  
        driver.get(url);  
  
        driver.findElement(By.id("qbi")).click();  
  
        driver.findElement(By.linkText("Upload an image")).click();  
  
        driver.findElement(By.id("qbfile")).click();  
  
        Runtime.getRuntime().exec("C:\\\\Users\\test\\workspace\\SimpliLearn\\scripts\\upload.exe");  
  
    }  
}
```



Key Takeaways

- Autolt is a freeware scripting language designed for automating windows GUI and general scripting.
- Autolt is another test automation tool used for automating desktop applications.
- Autolt is required as Selenium cannot interact with browser window elements.
- Autolt Script Editor is used to write, compile, and execute scripts written for the Autolt tool.



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Thank You

