





Auto IT & Methods

21ST AUG, 2023

Contents



- What is Auto IT?
- Auto IT installation
- Finding Element with Element Identifier
- Script Compilation
- Auto IT implementation

What is Auto IT?

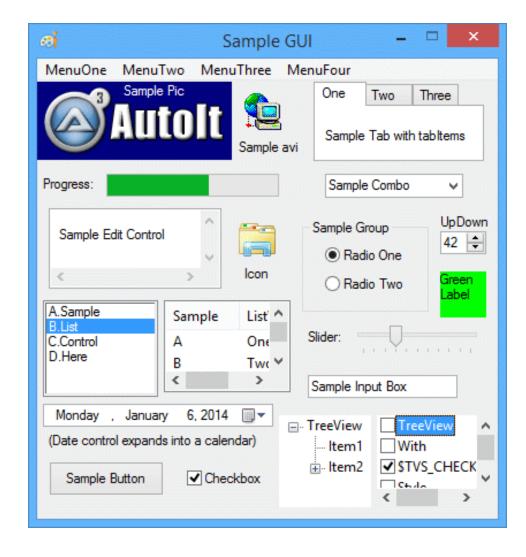


What is Auto IT?



Auto IT

- Auto It is a freeware scripting language designed for automating windows GUI and general scripting.
- It uses a combination of mouse movement, keystrokes and window control manipulation to automate a task which is not possible by selenium web driver.
- Selenium is an open-source tool that is designed to automate web-based applications on different browsers but to handle window GUI and non-HTML popups in application.



What is Auto IT?



Auto IT

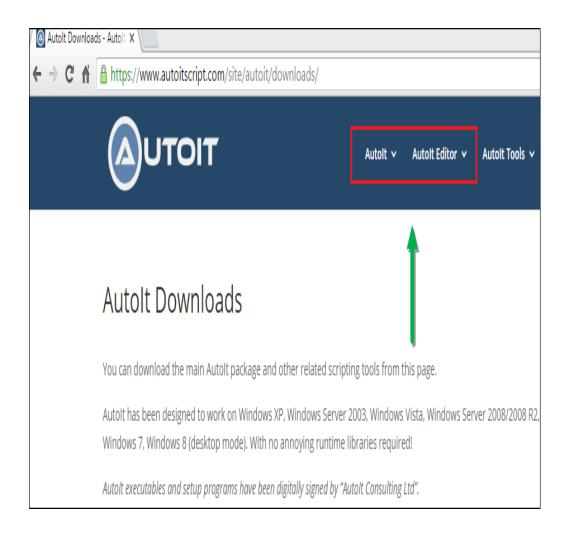
AutoIt in Selenium is required as these window-based activity are not handled by Selenium.





How to download & Install AutoIT?

- Go to the URL https://www.autoitscript.com/autoit.downloads/
- Hover on 'Autoit' and 'Autoit' Editor dropdown.

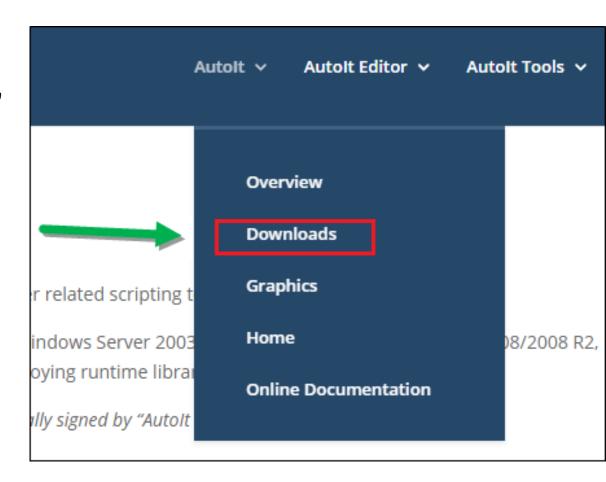




How to download & Install AutoIT? (Contd.)

- Click on 'AutoIT' Downloads option.
- Download "Autoit" by clicking on 'Download Autoit' button.

Software	Download
Autolt Full Installation. Includes x86 and x64 components, and: Autolt program files, documentation and examples.	
Aut2Exe – Script to executable converter. Convert your scripts into standalone .exe files!	
 AutoltX - DLL/COM control. Add Autolt features to your favorite programming and scripting languages! Also features a C# assembly and PowerShell CmdLets. 	Download Autolt
• Editor – A cut down version of the SciTE script editor package to get started. Download the package below for the full version!	



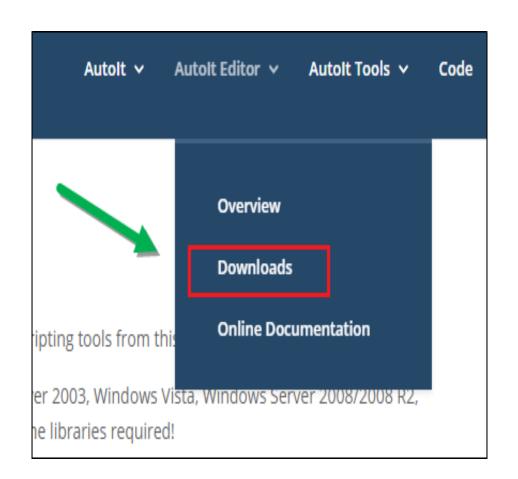


How to download & Install AutoIT? (Contd.)

- Now download "Autoit editor" by clicking on 'Downloads' button .
- Click on the link as shown below.

Current Versions

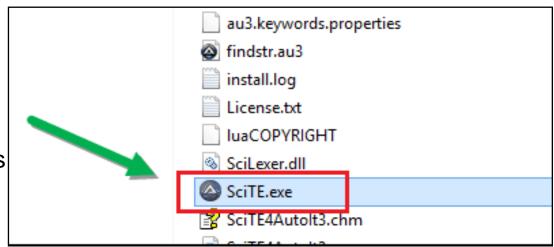
File	Date updated	Notes
SciTE4Autolt3.exe (5439Kb)	16-3-2021	Installer containing SciTE and all configuration files plus utilities.Update History. Definition files included: Autolt v3.3.14.5 and BETA v3.3.15.3





How to download & Install AutoIT? (Contd.)

- After successful installation open up AutolT.
- Go to 'C:\Program Files (x86)\AutoIt3\SciTE'
- Click on 'SciTE.exe' file, the AutoIT editor opens as shown



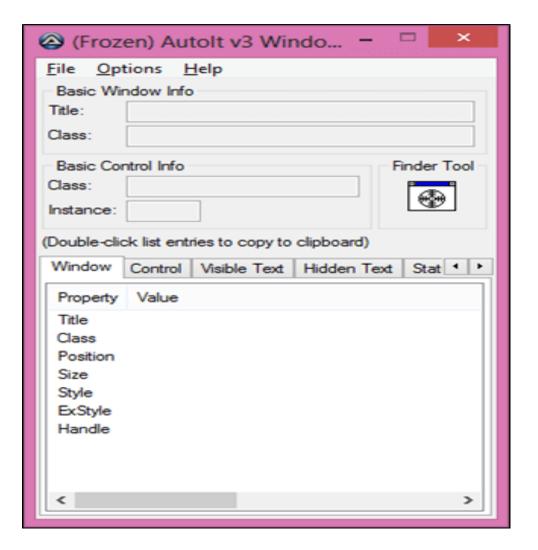






Finding Element with Element Identifier

Now open element Identifier- Go to 'C:\Program Files (x86)\Autolt3' and click on 'Au3Info.exe' file



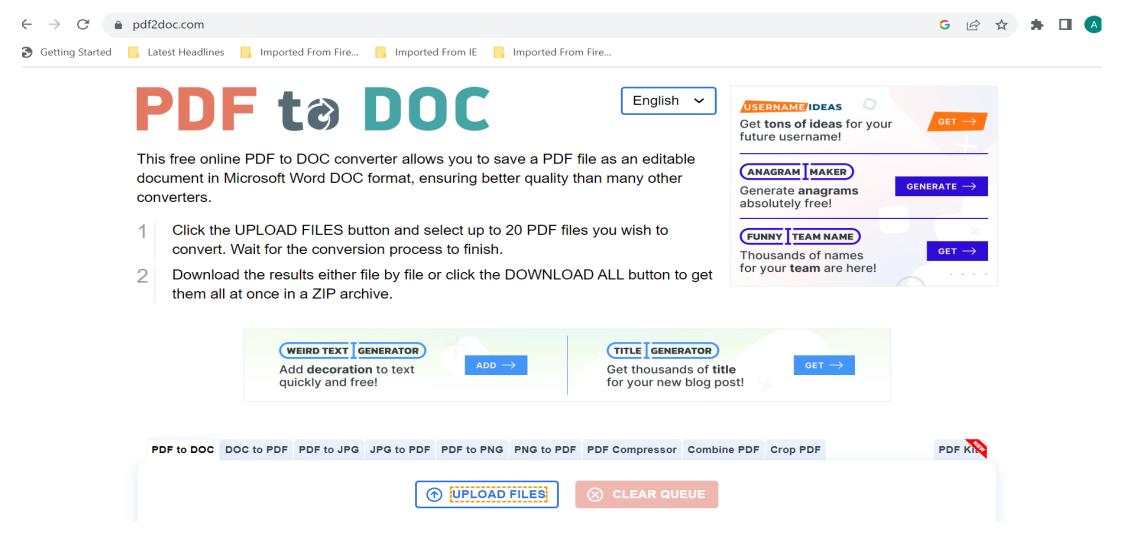


Finding Element with Element Identifier (Contd.)

- Launch the following Web Application: https://pdf2doc.com
- Now open file uploader window by clicking on 'UPLOAD FILES' which is windows activity.



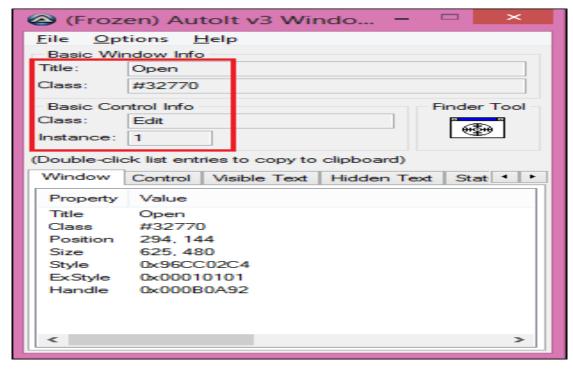
Finding Element with Element Identifier (Contd.)

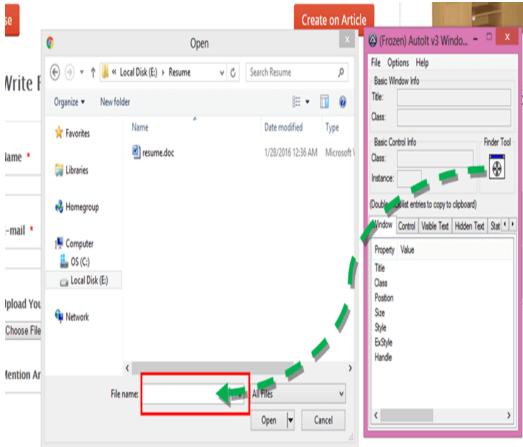




Finding Element with Element Identifier (Contd.)

Drag the finder tool on the "File Name" box element of file uploader window to find the basic attributes.







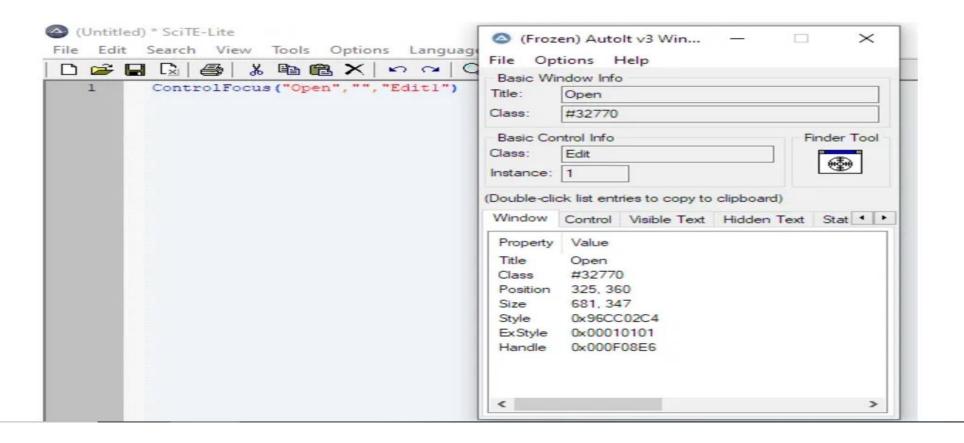
Let's write scripts using AutoIT editor

Methods are required for writing file upload script:

```
Sets input focus to a given control on a window
ControlFocus(" title "," text ",controlID )
Sets text of a control
ControlSetText(" title "," text ",controlID ," File path which need
to upload " )
Sends a mouse click command to a given control
ControlClick(" title "," text ",controlID )
```



ControlFocus method: focus to the 'file name' text box of the file uploader





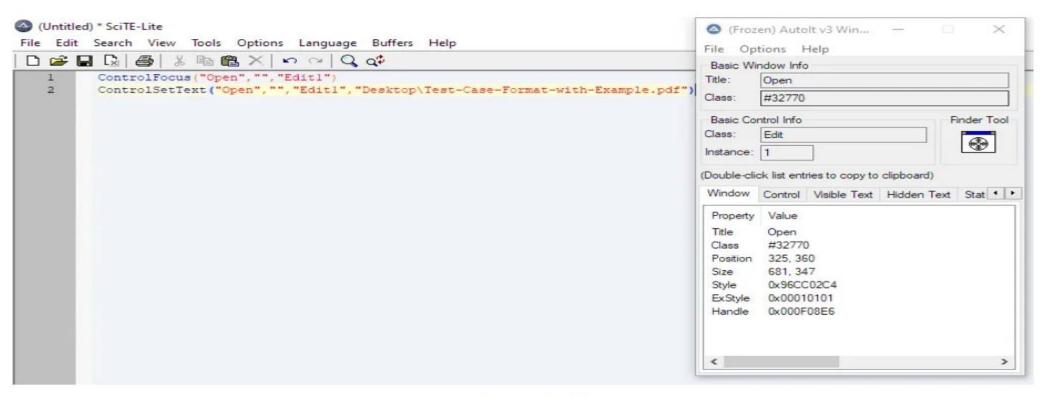
Finding Element with Element Identifier (Contd.)

- title "Open"
- text is not required.
- **controlID** "Edit1" (combination of class='Edit' and Instance='1')

ControlFocus("Open","","Edit1")



ControlSetText method: input file path of a control



ControlSetText method



Finding Element with Element Identifier (Contd.)

- title "Open"
- **text** is not required.
- controlID "Edit1"
- **new text** pass the path of the file which we need to upload.

```
ControlSetText("Open","","Edit1","Desktop\Test-Case-Format-with-
Example.pdf")
```



Step 4: Drag the finder tool on the "Open" button element of file uploader to find the attributes.

Attributes are title='Open', class='Button' and instance='1'.

ControlClick method: click on 'Open' button of file uploader.



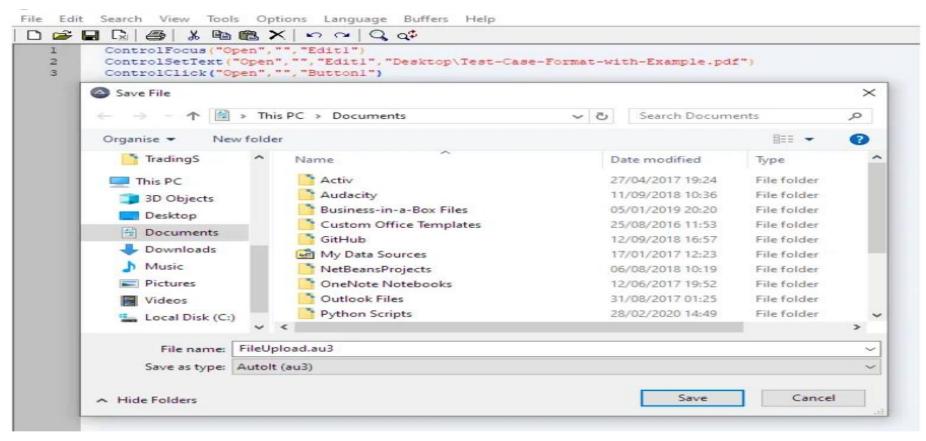


- title "Open "
- text is not required.
- **controlID** "Button1" (combination of class and Instance)

```
ControlClick("Open","","Button1")
```



Finding Element with Element Identifier (Contd.)

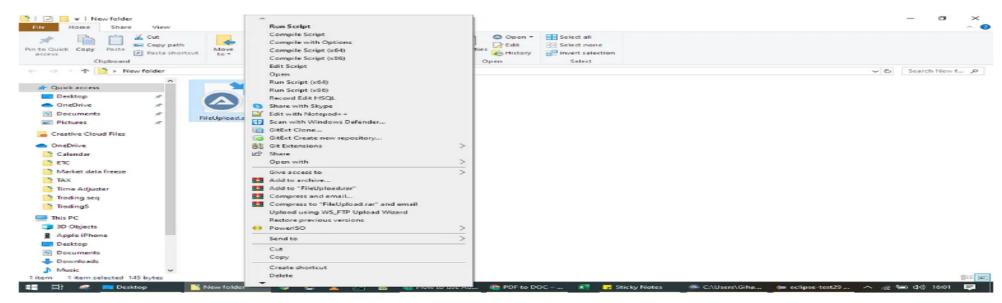


Save the script

Step 5: Save the script as "FileUpload".



Finding Element with Element Identifier (Contd.)



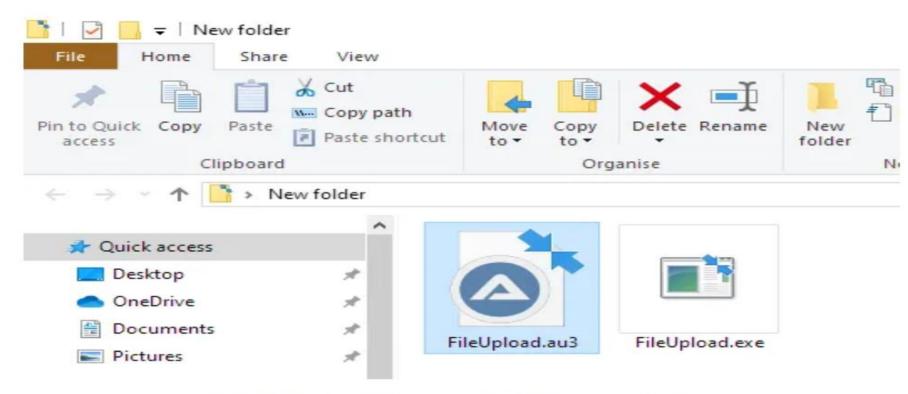
Compile the script

We can't execute this script directly, we need to compile this script. For compiling this script, you have two options:

1st Option: compile script x64 (for windows 64-bit machine)

2nd Option: compile script x86 (for windows 32-bit machine)





'FileUpload exe' file generated after compilation

Step 6: 'FileUpload exe' file generated after compilation.



AutoIT in Selenium

- In Selenium script, we find the elements of the application and upload file by executing AutoIT exe file generated from AutoIT script.
- When selenium clicks on 'UPLOAD FILES' button, file uploader box opens.
- Then we call AutoIT script, the control immediately transferred to AutoIT in order to upload a file and then control send back to selenium.

//call AutoIT script in selenium and upload file .

Runtime.getRuntime().exec("E:\\AutoIT\\FileUpload.exe");

- Runtime class allows the script to interface with the environment
- **getRuntime()** get the current runtime
- exec() methods execute the AutoIT script

