**DaVinci Resolve Studio Python Scripting the COMPLETE Setup**

Resolve Python Thonny Tkinter

DaVinci Resolve Studio

Video Editor Automation

Python Scripting

1. Automatic Project Creation & Importing Media | DaVinci Resolve Scripting | IoT Vlogs

API Documentation:

<https://resolvedevdoc.readthedocs.io/en/latest/index.html>

<https://diop.github.io/davinci-resolve-api/#/>

<https://gist.github.com/X-Raym/2f2bf453fc481b9cca624d7ca0e19de8>

**Thonny Python IDE Setup (Pre-requirement)**

<https://thonny.org/>

Alternatives: PyCharm, VS Code etc.

Install the latest Python with the proper system variable path.

<https://www.python.org/downloads/> 

Change the Python executor of Thonny Python IDE.

Github download link: <https://github.com/iotvlogs/resolvestudioautomation>

Unzip and Paste in the Documents folder → Shortcut in the Desktop  (DRSAutomationbyIoTVlogs Folder)

View → Files

New → save as → in the directory

Ctrl + L → Clear shell

F5 → Run the program, and the stop button to stop execution.

\*\*\*Make sure, the OBS file recording format is (Settings → Advanced → Filename Formatting): -SR-%b-%DD-%CCYY-%I-%mm-%ss-%p

**DaVinci Resolve Studio Scripting Setup**

Deactivate license: Help > Deactivate License. (if setting a test environment)

Resolve → Preference → General → External Scripting Using → Local (MUST)

\*\*\* Pin the DaVinci Resolve software third position in the taskbar.

1\_Test\_CycleThruPages

*Note: the script will cycle thru Media, Cut, Edit, Fusion, Color, Fairlight, and Deliver pages for testing purposes.*

First export your project template with the .drp extension

Update the .drp path in the DRS automation software

Batch file runner template  shortcut key

Run with a .bat file

Convert to .exe

pytoexe.py

Place in the Windows startup (optional)

Run → shell:startup 

1. Automatically Apply LUTs (.cube, .drx) | Clip Trimming | DaVinci Resolve Scripting | IoT Vlogs

2\_Applying\_Sepia\_LUT\_cube\_V2.py

*Note: the script will apply Sepia\_LUT (does not preserve grade node tree) on all the video clips placed on V2 track (changeable).*

3\_Applying\_Sepia\_drx\_V2.py

*Note: the script will apply Sepia\_drx (preserves grade node tree) on all the video clips placed on V2 track (changeable), where Sepia nodes are preserved and can be adjusted during the editing phase. (Professional Color Grading)*

4\_Clip\_trimming\_in\_out

*Note: the script will remove part of the timeline selected using in and out points.*

1. Automatic Project Export | DaVinci Resolve Scripting | IoT Vlogs

5\_Export\_Project\_api.py  
*Note: the script will export video using DaVinci Resolve Scripting API (Python). the script knows the OUTPUT folder location. (NOT RECOMMENDED)*

6\_Export\_Project\_pyautogui.py

*Note: the script will export video using pyautogui python library. The xy coordinates must be programmed based on the user's screen resolution. the script knows the OUTPUT folder location. (RECOMMENDED)*