How to Use Automation Scripts

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| **Step** | **Instructions** |
| 1 | Install SUMO (Simulation of Urban MObility) |
| 1.1 | Download SUMO: Go to the official SUMO website (https://www.eclipse.org/sumo/) and navigate to the "Download" section. Choose the appropriate installer for your operating system (Windows, macOS, or Linux). |
| 1.2 | Run the Installer: Double-click the downloaded .exe file (for Windows) and follow the on-screen instructions. For macOS/Linux, follow the instructions on the SUMO website. |
| 1.3 | Verify Installation: Open Command Prompt (CMD) or terminal, type sumo --version, and press Enter. It should display the installed version number. |
| 2 | Prepare Your SUMO Simulation |
| 2.1 | Ensure you have a SUMO simulation set up, including a SUMO Configuration File (.sumocfg). |
| 3 | Place the Screenshot Script |
| 3.1 | Save the provided Python script (auto\_screenshots.py) to a convenient location on your computer, ideally in the same folder as your SUMO simulation files. |
| 3.2 | Ensure Python is installed. If not, download it from https://www.python.org/downloads/ and select "Add Python to PATH" during installation. |
| 4 | Run the SUMO Simulation and Screenshot Script |
| 4.1 | Open Command Prompt: Press Win + R, type cmd, and press Enter. |
| 4.2 | Navigate to the Script's Directory: Use cd to go to the directory where you saved auto\_screenshots.py. For example: cd C:\Users\YourName\SUMO\_Simulations\Scripts |
| 4.3 | Start Your SUMO Simulation (with GUI): In a separate Command Prompt window, navigate to your .sumocfg file's directory and run: sumo-gui -c your\_simulation.sumocfg. Make sure the SUMO-GUI window is active and visible. |
| 4.4 | Run the Screenshot Script: Go back to the Command Prompt window from step 4.2 and execute: python auto\_screenshots.py |
| 4.5 | Monitor the Process: The script will print messages in the Command Prompt as it takes and saves screenshots. Adjust delay and num\_screenshots in the script as needed. |
| 4.6 | After Completion: Once the script prints " All screenshots taken successfully!", your screenshots will be saved as screenshot\_001.png, screenshot\_002.png, etc., in the script's directory. |