# User Manual

This instructions aims to provide the user with a guide for the configuration of the environment and for the correct execution of the scripts provided.

## 1. Introduction

The task performed by the scripts is the automatic download of images set by category from the sources "https://www.xtrafondos.com" and "https://wallpaperaccess.com".

The scripts have been developed in python 3.9.7, it is recommended to use the same version to avoid incompatibility problems as well as the same versions of the libraries included in the document "requirements.txt". To facilitate this task, the configuration of a Python virtual environment is recommended. The following is the process required to set up such an environment and successfully run the tools.

Because these sources use the content delivery network Cloudflare, a bypass mechanism of the anti-scraping measures presented by this provider is implemented, this bypass mechanism works intermittently, so the execution of this script is NOT DETERMINISTIC, in case of failure in the bypass, the script must be re-executed.

Due to the high volume of data that is required, users are advised to be cautious with the use of such a tool as a constant request against the servers could cause problems on the source server side.

## 2. Setting up the environment

The use of a virtual environment is recommended to simplify the management of dependencies and versions of the scripts. To illustrate the configuration of the tool, the IDE Spyder has been chosen for the execution of the python scripts.

In this way, the first step for setting up the environment is creating the python virtual environment.

## 3. Creation of the virtual environment and dependencies installation

Requirements:

- Internet connection
- Python 3 installed

As the creation of the virtual environment depends on the system, it is recommended to follow a guide for creating the python virtual environment for the corresponding system.
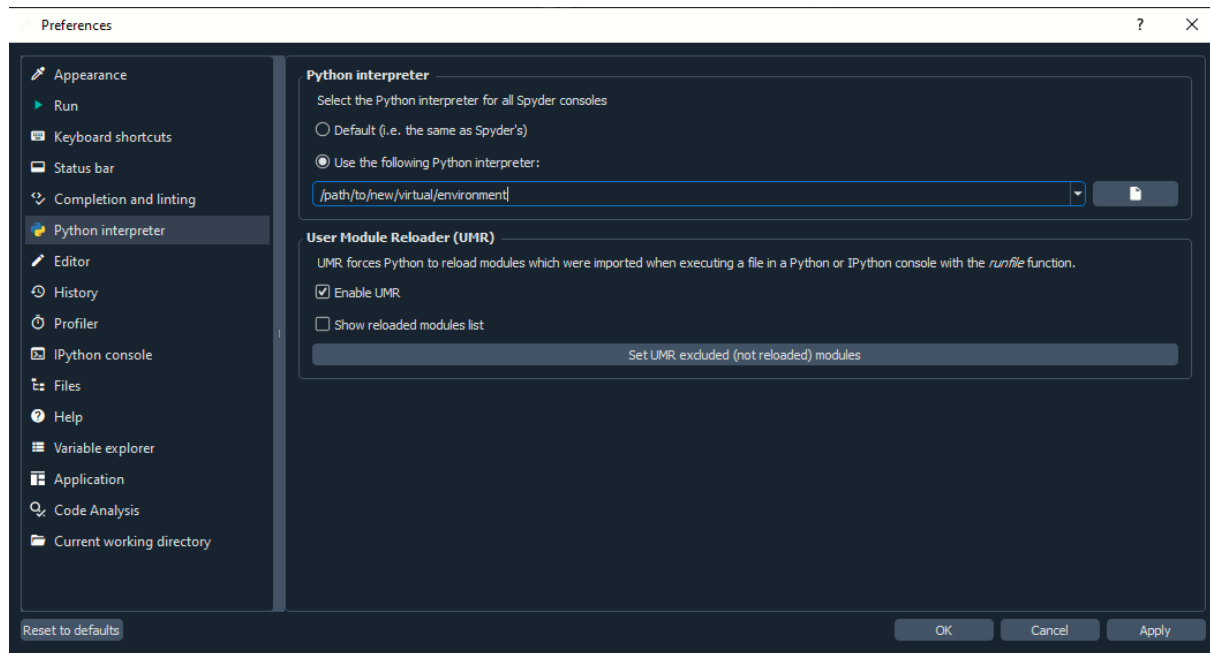
Windows:
- python3 -m venv c: \path\to\new\virtual\environment

Linux & MacOS:
- python3 -m venv /path/to/new/virtual/environment

Remember that for the correct use of the virtual environment using an IDE it is necessary to configure the virtual environment in the IDE

Spyder:



Once the virtual environment is created, the installation of all the necessary dependencies is required. A dependencies file is provided with the name "requirements.txt" for the automatic installation of dependencies.

To activate the virtual environment, execute "Scripts/active.bat" file

To install dependencies:

- pip install -r requirements.txt

To check dependencies are installed:

- pip freeze

## 4. Setting up the scripts

Once the python environment is created and active, the only step remaining to the scripts execution is to include some data.

In order to download the scripts, you can download from github or execute github clone command:

git clone https://github.com/Emotet-hunter/Image-Set-Autonomous-Downloaders.git

Choose the source from which you want to download the image set and open the corresponding script in the editor.

The required changes are as follows:

- Set the download path:

```
1   # -*- coding: utf-8 -*-
2   """
3   Created on Tue Jan 25 12:15:37 2022
4
5   @author: Miguel Peidro Paredes
6   """
7
8   #Scrapping
9   from bs4 import BeautifulSoup
10  import os
11  import shutil
12  from PIL import Image
13
14  #Bypass CloudFlare
15  import cloudscraper
16
17  #Change working directory to the External Drive
18  path = "Download Path"
19  os.chdir(path)
```

Change "Download Path" to the path of your choice for downloading the images.

Execute the script and follow the instructions displayed.