Data Extractor Utility (Setup & Usage Guide)

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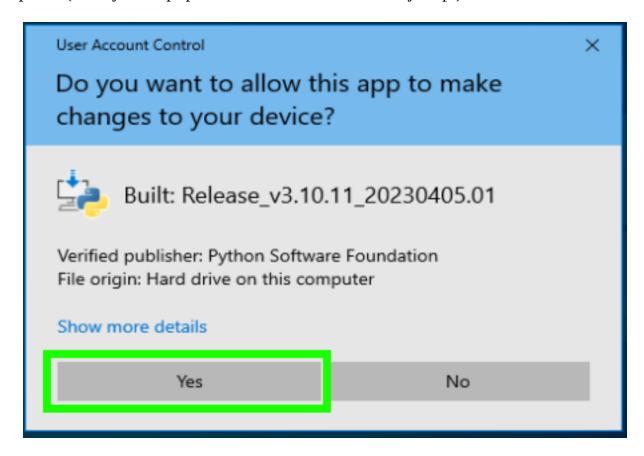
To use the utility, Python, Tesseract, and some packages must be installed properly. Please follow the guide step by step to get them installed successfully. Skipping any step may raise errors in the future.

Setup:

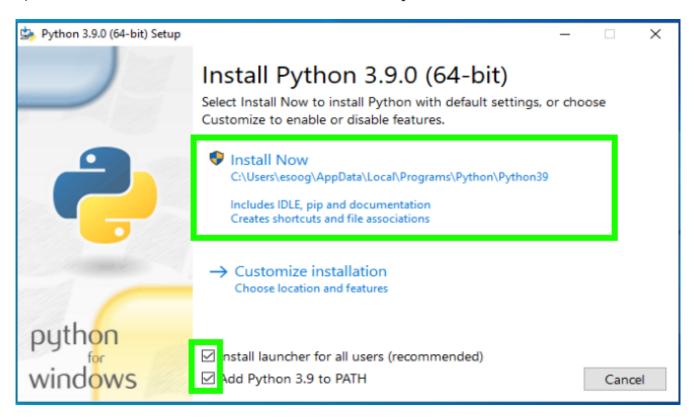
1) Please use the following link to install Python 3.9 installer for Windows:

(Windows - 64 bit): https://www.python.org/ftp/python/3.9.0/python-3.9.0-amd64.exe (Windows - 32 bit): https://www.python.org/ftp/python/3.9.0/python-3.9.0-amd64.exe

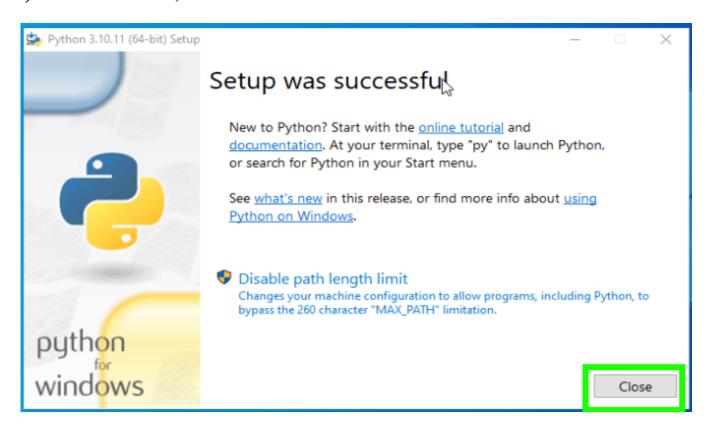
2) Run your downloaded Python installer file and allow it to make changes to your computer. (Always accept permissions when asked at any step.)



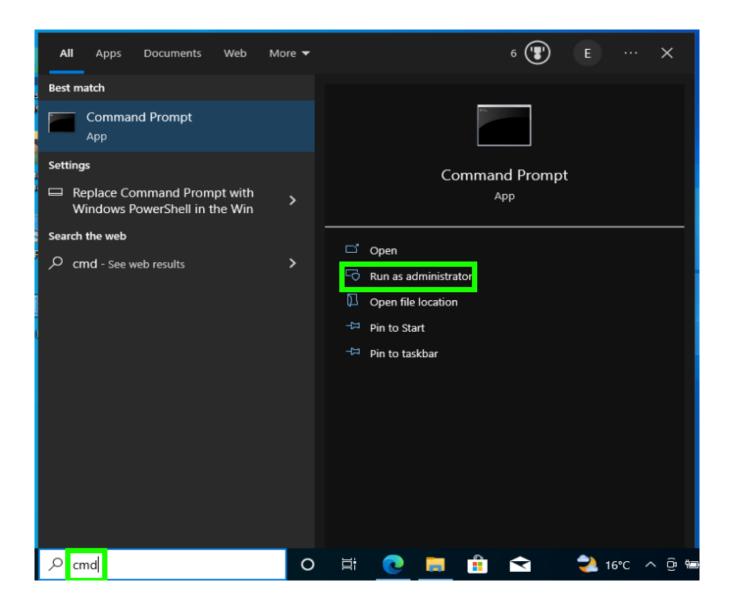
3) Check the boxes "Install for all users" and "Add path". Then, click "Install Now".



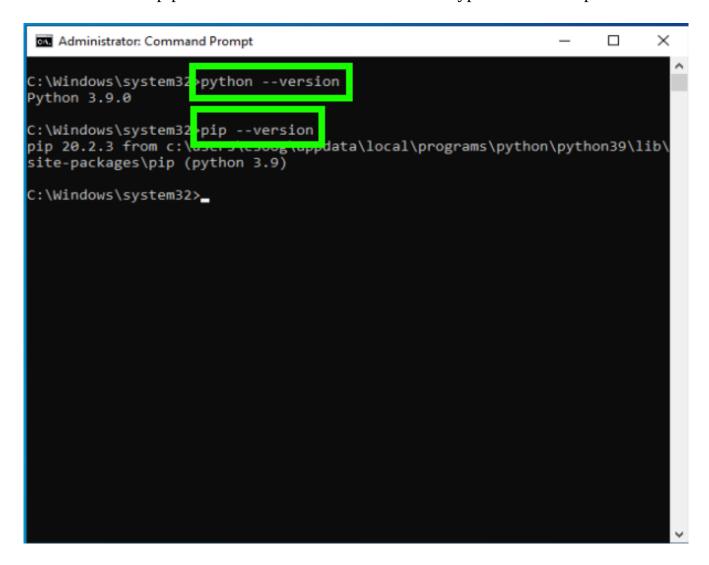
4) Once it is installed, click "Close".



5) In your Windows Taskbar, type "cmd" to see the command prompt. Then, open it as an administrator.

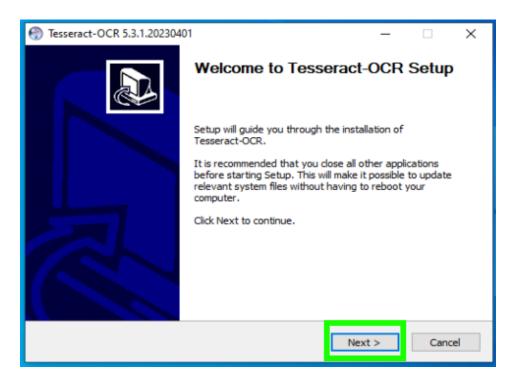


6) Type "python --version" and press enter. If Python was installed properly, you should see the python version number. Then, type "pip --version" and press enter. You should be able to see the pip version number too. The "--" are 2 hyphens without spaces.

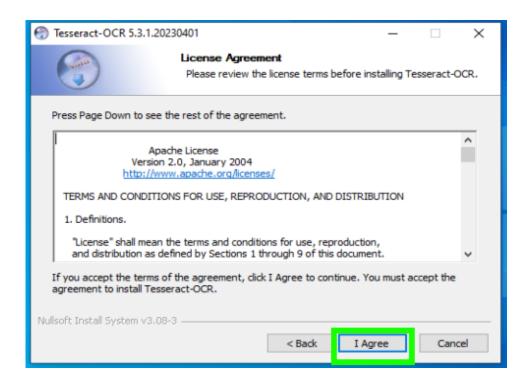


7) Now, download Tesseract using the following link: https://digi.bib.uni-mannheim.de/tesseract/tesseract-ocr-w64-setup-5.3.1.20230401.exe

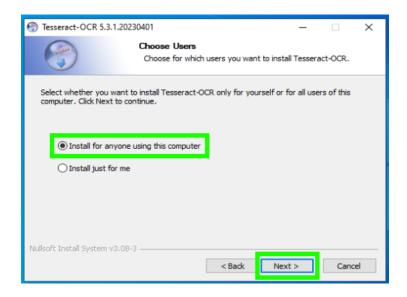
8) Run the file as an administrator to start. Then, click "Next".



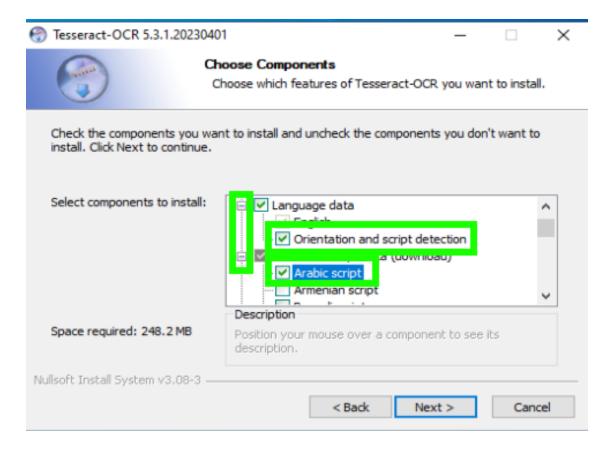
9) Click "I Agree".

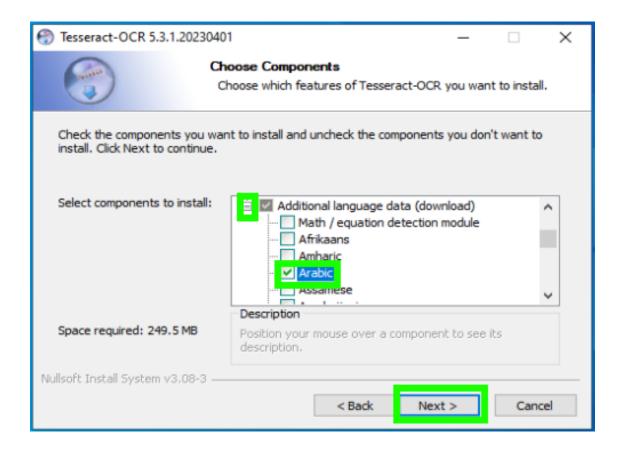


10) Choose "Install for anyone using this computer". Then click "Next".

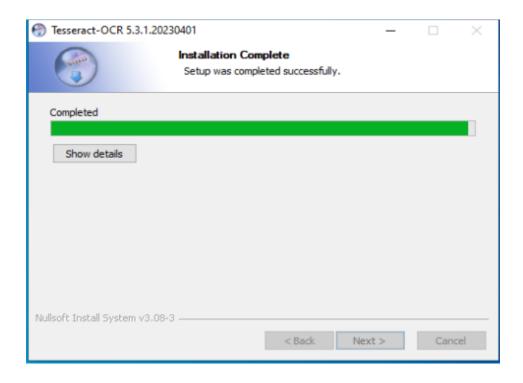


- 11) Click on the choice collections "+" to unpack them.
 - Make sure "Orientation and script detection" is selected.
 - Select "Arabic script" from "Additional script data (download).
 - Scroll down and select "Arabic" from "Additional language data (download).

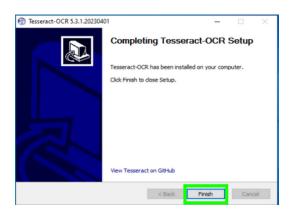




12) Don't change the installation directory if asked. Wait until the installation is completed.



13) Tesseract is now installed. Click "Finish".



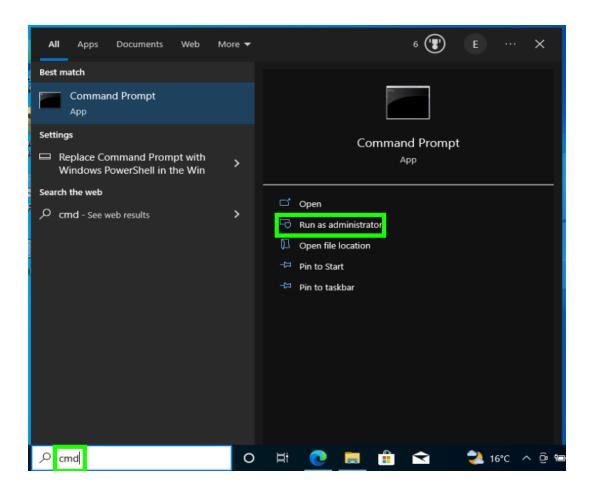
- 14) Now, let's install the packages required by the utility. Open the "Command Prompt" as administrator using your taskbar as in step no.5.
- 15) Find the path where you downloaded the "requirements.txt" files your received. In this example, the file path is "C:\Work\requirements.txt". So, we will write "pip install -r C:\Work\requirements.txt" and press enter. Your utility packages will be installed. Note: If your path includes **spaces**, write it between **double quotations** "C:\My Work\requirements.txt"

```
Administrator: Command Prompt
                                                                   ×
 \Windows\system32 pip install -r C:\Work\requirements.txt
Collecting click==8.0.
 Downloading click-8.0.3-py3-none-any.whl (97 kB)
                                      97 kB 347 kB/s
Collecting Pillow==9.5.0
 Downloading Pillow-9.5.0-cp39-cp39-win_amd64.whl (2.5 MB)
                                        2.5 MB 939 kB/s
Collecting PyMuPDF==1.20.2
 Downloading PyMuPDF-1.20.2-cp39-cp39-win_amd64.whl (6.6 MB)
                                      6.6 MB 409 kB/s
Collecting pytesseract==0.3.10
 Downloading pytesseract-0.3.10-py3-none-any.whl (14 kB)
Collecting colorama;    platform_system == "Windows"
 Downloading colorama-0.4.6-py2.py3-none-any.whl (25 kB)
Collecting packaging>=21.3
 Downloading packaging-23.0-py3-none-any.whl (42 kB)
                                      42 kB 255 kB/s
Installing collected packages: colorama, click, Pillow, PyMuPDF, packaging
Successfully installed Pillow-9.5.0 PyMuPDF-1.20.2 click-8.0.3 colorama-0.
4.6 packaging-23.0 pytesseract-0.3.10
WARNING: You are using pip version 20.2.3; however, version 23.0.1 is avai
ou should consider upgrading via the 'c:\users\esoog\appdata\local\progr
  \python\python39\python.exe -m pip install --upgrade pip' command
```

If no errors occurred during the previous steps, we can run the utility now. The steps above are done once only.

Usage:

1) Type "cmd" in your taskbar to open your Command Prompt.



2) Write your command in form of "python <utility file path> <PDFs input folder path> <output folder path>". Add only one space after each part. If your path includes **spaces**, write it between **double quotations**.

```
C:\Users\esoog python C:\Work\extractor.py "C:\Work\my pdf files" "C:\Work\output folder" \
Validating your files...
Please don't use the CSV file until the end of the process.
Running the OCR...
Your files are being processed... 100%
Your data is ready in C:\Work\output folder

C:\Users\esoog>
```

Your files should now be ready in your output folder.

Notes:

- 1) Remember to use the double quotations for paths that include spaces.
- 2) Don't move the CSV file at all during the process.
- 3) If you already have a CSV file that is an output of an earlier process in the output folder, move it to avoid overwriting the file.
- 4) If you get an error message, read it carefully to know the reason. For example:
 - If you write an input path that doesn't exist, you'll get the error message "Please use a valid input directory path."
 - If you pass the same path as input folder and output folder, you'll will get a warning "Warning: You are using the same path as the input and output folder."
 - If you pass an input folder that doesn't contain PDF files, you'll get "No PDF files in the input directory."
 - If the CSV file cannot be written, you'll get "Cannot write files to the output directory."
 - If processing a file is failed, you'll get the message "Reading or writing <file_name> has failed." but the rest of the files will be processed.
 - If you get "Reading or writing <file_name> has failed." for all files when you run the utility for the first time, please contact me.