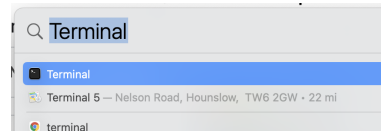**macOS Installation Instructions**

1. Open Terminal

   You can do this by clicking on the magnifying glass in the top right hand corner of the screen.

   Type:

```
su
```

   Press enter. This command elevates Terminal so you can run as a super user. You will be prompted for your password,. Note that when you type it, it will not display. Press enter.

2. Next, you need to install Brew. This is a package manager for macOS. To install Brew simply copy and paste the entire line below into the terminal and hit enter. Note this will ask you for your password again, and will prompt you on screen to press enter a few times

```
/bin/bash -c "$(curl -fsSL https://raw.githubusercontent.com/Homebrew/install/HEAD/install.sh)"
```

3. Next we can install Python. Python is the programming language that is used to write this script. To install python simply type the following

```
brew install python
```

4. Next we need to install tesseract. This is the plugin that reads an image and converts it to text using OCR character recognition. We do this by typing

```
brew install tesseract
```

5. Next we need to install Poppler. This is used to convert PDF files into images before the OCR software does its thing. Do this using the following command:

```
brew install poppler
```

6. Next we need to install the python dependencies for the script to actually run. Please copy and paste the line below into Terminal

```
pip3 install —-upgrade pip
```

Once pip has updated, please enter the following line to install dependencies

```
pip3 install tk pdf2image opencv-python getkey pytesseract
```
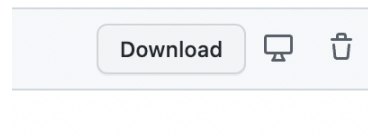
Note, if you get errors with the last command, please try re-running pip separately. I.e:

```
pip3 install tk
pip3 install pdf2image
```
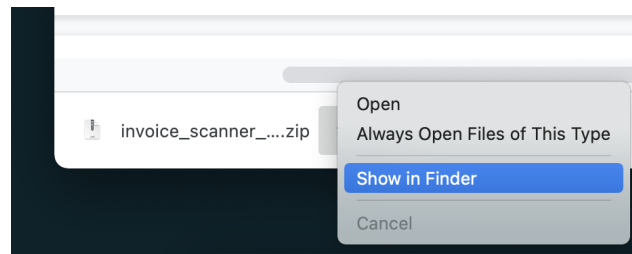
7. Now download the script from this location:

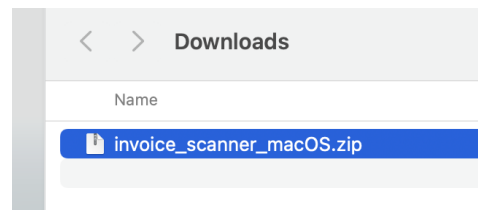https://github.com/ohgaction/service_charge_scanner/blob/main/downloads/invoice_scanner_macOS.zip

Click on the 'Download' link to the right of the screen.
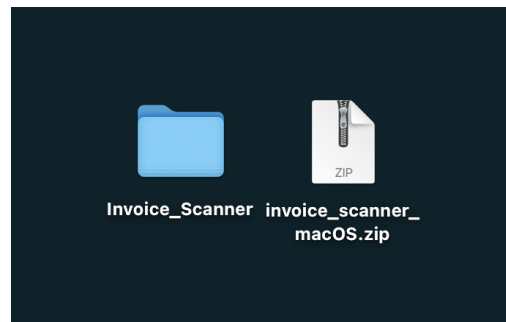
Download

Please move this .zip file to your Desktop. You can do this in Chrome by clicking 'Show in Finder' on the file you've just downloaded:

Now drag the .zip file to your desktop:

Double click the .zip file on the desktop, and it will expand into a folder:

You can drag the .zip file to the Recycling bin now as you're done with it.

8. Now we're ready to run the script. To do this, please go back to Terminal and type:

```
exit
```

This will exit out of super user mode. Then to load the script copy and paste the following line:

```
python ~/Desktop/invoice_Scanner_macOS/OHG_Action_Receipt_Processor.py
```

The script will now launch:

```
================================================================
Invoice Scanner – 2022 – E.Spencer
Version 1.0 Beta

This invoice extraction tool is free for personal use.
It comes with no warranty and is used entirely
at your own discretion. By proceeding you accept these terms.


================================================================

[R] Restore from disk              [P] Process
[F] Select input folder            [Q] Quit

Input folder: /Users/edspece/Desktop/Invoice_Scanner

================================================================
```

Known Issues:

- If you have any errors saying a module is missing, please go back to step 6 and ensure that all the dependencies have been installed.
- If you find that it always complains about an invalid image file please go back to step 5 and make sure that Poppler is installed
- If you get a warning that _tkinter cannot be imported, try installing: `brew install python-tk` from terminal - this issue doesn't seem to affect all macOS versions.