Optical Character Recognition from Image using PyTesseract in Python on Colab

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In [ ]:
#Libraries Installation
!sudo apt install tesseract-ocr
!pip install pytesseract
Reading package lists... Done
Building dependency tree
Reading state information... Done
tesseract-ocr is already the newest version (4.00~qit2288-10f4998a-2).
0 upgraded, 0 newly installed, 0 to remove and 40 not upgraded.
Requirement already satisfied: pytesseract in /usr/local/lib/python3.7/dist-packages (0.3.8)
Requirement already satisfied: Pillow in /usr/local/lib/python3.7/dist-packages (from pytesseract) (7.1.2)
In [ ]:
#Import Libraries
import pytesseract
import shutil
import os
import random
try:
from PIL import Image
except ImportError:
import Image
import matplotlib.image as mpimg
import matplotlib.pyplot as plt
In [ ]:
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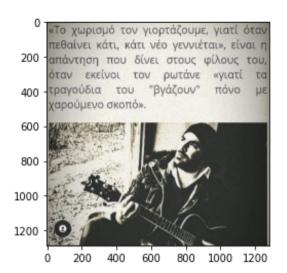
Read Images

Output Images
plt.imshow(img)

img = mpimg.imread('/content/drive/MyDrive/Pantelis.jpg')

Out[]:

<matplotlib.image.AxesImage at 0x7f557498ae90>



Download source language from "https://github.com/tesseract-ocr/tessdata"

Since the image displays greek text, we'll download the grc.traineddata from https://github.com/tesseract-ocr/tessdata/blob/master/grc.traineddata

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In [ ]:
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# filenames = os.listdir('/usr/share/tesseract-ocr/4.00/tessdata/')
# print(filenames)

# import shutil
# src = '/content/drive/MyDrive/grc.traineddata'
# dest = '/usr/share/tesseract-ocr/4.00/tessdata/'
# shutil.copy(src, dest)

filenames = os.listdir('/usr/share/tesseract-ocr/4.00/tessdata/')
print(filenames)

['tessconfigs', 'pdf.ttf', 'configs', 'grc.traineddata', 'eng.traineddata', 'osd.traineddata']
['tessconfigs', 'pdf.ttf', 'configs', 'grc.traineddata', 'eng.traineddata', 'osd.traineddata']
In []:
image path in colab='/content/drive/MyDrive/Pantelis.jpg'
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```
extractedInformation = pytesseract.image to string(Image.open(image path in colab), lang='grc')
print (extractedInformation)
«ΤΌ χωρισμό τον νιορτάζουμε, νιατί όταν
πεθαίνει κάτι, κάτι νέο γεννιέται», είναι ἢ
απάντηση που δίνει στούυς φίλους τοῦ
οἷαν εκείνοι τοὸν ρωτάνε «γιατί τᾶ
Πραγούδια τοῦυ "βγάζουν' πόνο Π
χαρούμενο σκοπό».
In [ ]:
!wqet -nc https://raw.qithubusercontent.com/brpy/colab-pdf/master/colab pdf.py
from colab pdf import colab pdf
colab pdf('GreekTextExtractionOCR.ipynb')
File 'colab pdf.py' already there; not retrieving.
WARNING: apt does not have a stable CLI interface. Use with caution in scripts.
WARNING: apt does not have a stable CLI interface. Use with caution in scripts.
[NbConvertApp] Converting notebook /content/drive/MyDrive/Colab Notebooks/GreekTextExtractionOCR.ipynb to pdf
[NbConvertApp] Support files will be in GreekTextExtractionOCR files/
[NbConvertApp] Making directory ./GreekTextExtractionOCR files
[NbConvertApp] Writing 27259 bytes to ./notebook.tex
[NbConvertApp] Building PDF
[NbConvertApp] Running xelatex 3 times: [u'xelatex', u'./notebook.tex', '-quiet']
[NbConvertApp] Running bibtex 1 time: [u'bibtex', u'./notebook']
[NbConvertApp] WARNING | bibtex had problems, most likely because there were no citations
[NbConvertApp] PDF successfully created
[NbConvertApp] Writing 107830 bytes to /content/drive/My Drive/GreekTextExtractionOCR.pdf
Out[]:
'File ready to be Downloaded and Saved to Drive'
```