## **PDF To Text**

### Introduction

System converts scanned documents in PDF format to text. The steps involve converting the PDF pages to images and performing OCR on it.

# **Development Environment**

- Python 3.5.3
- OpenCV 3.4.0
- ImageMagick-6.9.9-43-Q8-x64
- Python wand
- Tesseract 4
- pytesseract 0.2.2
- Ghostscript 9.23

Above are the list of key python packages used for development.

#### Reference links

http://docs.wand-py.org/en/latest/guide/install.html#install-imagemagick-on-window https://www.imagemagick.org/download/binaries/

[ImageMagick-6.9.9-43-Q8-x64-dll.exe]

https://github.com/tesseract-ocr/tesseract/wiki/4.0-with-LSTM#400-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-alpha-likely-al

for-windows

http://digi.bib.uni-mannheim.de/tesseract/tesseract-ocr-setup-

4.00.00dev.exe

https://ghostscript.com/download/gsdnld.html

### **Usage and Deployment**

Navigate to the root directory <a href="PdfToText">PdfToText</a> and use following command to invoke the program. <a href="PTTConfig.properties">PTTConfig.properties</a> property file controls program execution

python src\Pipeline.py config\PTTConfig.properties

# **Configuration parameters**

#### **Mandatory Parameters**

- logFile = log/ENLog.log, Path of the log file
- inputPath = input/ Path where input pdf are stored
- tempPath = temp/ Path to store the temporary files
- outputPath = output/ Path where output will be stored
- magickHome = C:/Program Files/ImageMagick-6.9.9-Q8/ Absolute path of Image Magic installation directory
- tesseractHome = C:/Program Files (x86)/Tesseract-OCR/ Absolute path of Tesseract installation directory
- tessData = C:/Program Files (x86)/Tesseract-OCR/tessdata/
  Absolute path of directory where Tesseract language models are stored
  - Please give the trailing slash / while specifying the path
- resolution = 400, Integer value representing dpi with which images need to be generated, Higher the value better the image quality, But increasing it beyond a point doesn't help.
- outputFormat = tsv, Possible values are pdf, hocr, txt, tsv

#### **Optional parameters**

• logLevel = INFO, Level of logging required. Possible values are CRITICAL, ERROR, WARNING, INFO, DEBUG, NOTSET.

https://docs.python.org/3.6/library/logging.html#levels

## **Directory Structure**

- PdfToText [Root Directory]
  - config [All .property files stays here]
  - input [Input PDF files]
  - log [Default log location]
  - output [Output OCR file stays here]
  - src [Python source folder]
  - temp [Temporary storage location]

This document was edited at https://dillinger.io/