Računalna forenzika – LAB4

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import os, sys, optparse

from exif import Image

import webbrowser

from PyPDF2 import PdfFileReader, PdfFileWriter

def convertGPScoordinate(coordinate, coordinate\_ref):

    decimal\_degrees = coordinate[0] + \

                      coordinate[1] / 60 + \

                      coordinate[2] / 3600

    if coordinate\_ref == "S" or coordinate\_ref == "W":

        decimal\_degrees = -decimal\_degrees

    return decimal\_degrees

def figMetaData(file\_path):

    img\_doc = Image(open(file\_path, "rb"))

    if not img\_doc.has\_exif:

        sys.exit(f"Image does not contain EXIF data.")

    else:

        print(f"Image contains EXIF (version {img\_doc.exif\_version}) data.")

        gps\_latitudee = convertGPScoordinate(img\_doc.gps\_latitude, img\_doc.gps\_latitude\_ref)

        gps\_longitudee = convertGPScoordinate(img\_doc.gps\_longitude, img\_doc.gps\_longitude\_ref)

        webbrowser.open\_new\_tab("http://www.google.com/maps/place/"+str(gps\_latitudee)+","+str(gps\_longitudee))

    print(f"{dir(img\_doc)}\n")

def pdfMetaData(file\_path):

    pdf\_doc = PdfFileReader(open(path, "rb"))

    if pdf\_doc.isEncrypted:

        try:

            if pdf\_doc.decrypt("banana") != 1:

                sys.exit("target pdf document is encrypted")

        except:

            sys.exit("target pdf document is encrypted")

    pdfWriter = PdfFileWriter()

    for pageNum in range(pdf\_doc.numPages):

        pdfWriter.addPage(pdf\_doc.getPage(pageNum))

    resultPdf = open('decrypted\_output.pdf', 'wb')

    pdfWriter.write(resultPdf)

    resultPdf.close()

if \_\_name\_\_ == "\_\_main\_\_":

    parser = optparse.OptionParser("Usage: python <script\_name> -f <file>")

    parser.add\_option("-f", dest="file", type="string", help="please provide full path to the document")

    (options, args) = parser.parse\_args()

    path = options.file

    if not path:

        print("please provide full path to the document")

        sys.exit(parser.usage)

    if any(path.endswith(ext) for ext in (".jpg", ".bmp", ".jpeg",)):

        figMetaData(path)

    elif path.endswith(".pdf"):

        pdfMetaData(path)

    else:

        print("File extension not supported/recognized... Make sure the file has the correct extension...")

Slika na kojoj se prikazuje tekst

Opis je automatski generiran

Slika na kojoj se prikazuje tekst, monitor, snimka zaslona, nekoliko

Opis je automatski generiran