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# License : GNU 3
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# Date : 24 Aug 2007
#####
import re
import os
import sys
import time
from ID3 import *
#####
def listFileswithExtension(directory, extension):
    """Traverse in the directory and list all files of specific extension"""
    list = os.listdir(directory)
    fileList = []
    for root, dirs, files in os.walk(directory, topdown=False):
        for name in files:
            (shortname, Extns) = os.path.splitext(name)
            if Extns == extension:
                fileList.append(os.path.join(root, name))
    return fileList

def convertFile(fileName):
    """Convert the file to ogg file """
    (fName, ext) = os.path.splitext(fileName)
    id3info = ID3(fileName)

    convrtCommand = "mpg123 -q -s \" + fileName + "\" | oggenc --raw -o \" + fName + ".ogg\" -
t \" + id3info['TITLE'] + \" -a \" + id3info['ARTIST'] + \" -l \" + id3info['ALBUM'] + \" -G
\" + id3info['GENRE'] + \" -"
    print convrtCommand
    os.system(convrtCommand)

def appendLogFile(log, logFileName):
    fLog = open(LogFileName, 'a')
    fLog.writelines(log)
    fLog.close()

# check the command line parameters
if len(sys.argv) == 3:
    updateFileCount = 0
    dirName = sys.argv[1]
    extension = sys.argv[2]
    fileList = listFileswithExtension(dirName, extension)
    strLog = time.strftime("Starting the conversion at Date %Y-%m-%d, Time %H:%M:%S")
    print strLog
    for fileNames in fileList:
        print "Converting file file " + fileNames
        convertFile(fileNames)
else:
    print "MP320GG : Converts all mp3 files to ogg files in a directory"
    print "Version : 0.01, License : GNU 3"
    print "Author : Mayank Johri (johri.maya@gmail.com)"
    print "Date : 24 Aug 2007"
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print "usage      : any2ogg <InputDirectory> .mp3"
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