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import requests, random, time, textwrap
from gtts import gTTS
from PIL import Image, ImageDraw, ImageFont
from bs4 import BeautifulSoup
from moviepy.editor import *
import inquirer

number = input("How many quotes would you like: ")
coloroptions = [
    inquirer.List('color',
        message="What color background do you want: ",
        choices=['blue', 'black', 'green', 'yellow', 'cyan'],
    ),
]

color = inquirer.prompt(coloroptions)
color = color.get("color")
RGBAbblack = (0, 0, 0, 128)
RGBAgreen = (102, 255, 153, 128)
RGBAYellow = (255, 255, 102, 128)
RGBACyan = (102, 153, 153, 128)
RGBABlue = (0, 0, 204, 128)

def video_Create(number, color):

    if color == 'black':
        color = RGBAbblack
    elif color == 'green':
        color = RGBAgreen
    elif color == 'yellow':
        color = RGBAYellow
    elif color == 'cyan':
        color = RGBACyan
    else:
        color = RGBABlue

    for x in range(int(number)):
        quotelist = ["aesop-quotes", "aldous-huxley-quotes", "aldous-huxley-quotes_2", "aristotle-quotes", "aristotle-quotes_2", "aristotle-quotes_3", "albert-einstein-quotes", "Aesop", "Aldous Huxley", "Aldous Huxley", "Aristotle", "Aristotle", "Aristotle", "Albert Einstein", "Alexander the Great", "Abraham Lincoln", "Aeschylus", "randomauthor = random.choice(quotelist)
        url = requests.get("https://www.brainyquote.com/authors/"+randomauthor)

        soup = BeautifulSoup(url.text, 'html.parser')

        quotes = random.choice(soup.find_all(class_ = "grid-item qb clearfix bqQt"))
        tts = gTTS(quotes.text, lang='en', tld='us')
        tts.save("quote.mp3")

    #adding the text

    astr = quotes.text
    astr = astr.replace(quotepl[quotelist.index(randomauthor)], "")
    print(astr)
    para = textwrap.wrap(astr, width=25)

    MAX_W, MAX_H = 1000, 1000
    imagequote = Image.new('RGBA', (MAX_W, MAX_H), color) #background color
    draw = ImageDraw.Draw(imagequote)
    font = ImageFont.truetype('/Users/egloo/Desktop/youtubeshorts/Merriweather-Regular.ttf', 65)

    pad = 15
    centerh = 0
    for line in para:
        w, h = draw.textsize(line, font=font)
        centerh += h
        centerh += pad
    w, h = draw.textsize(quotepl[quotelist.index(randomauthor)], font=font)
    centerh += h

    current_h = (1000-centerh)/2
    for line in para:
        w, h = draw.textsize(line, font=font)
        draw.text((MAX_W - w) / 2, current_h, line, font=font)
        current_h += h + pad

    w, h = draw.textsize(quotepl[quotelist.index(randomauthor)], font=font)
    draw.text((MAX_W - w) / 2, current_h+20, quotepl[quotelist.index(randomauthor)], font=font)

    imagequote.save('quoteimage.png')
    time.sleep(.5)

    photo = ImageClip("quoteimage.png")

    natureimages = ["images/nature/fall.JPG", "images/nature/nightsky.JPG", "images/nature/space.JPG", "images/nature/squirrel.JPG",]
    randomimages = random.choice(natureimages)

    ideas = ['love', 'path', 'courage', 'future', 'freedom', 'math', 'book', 'think', 'thought', 'war']

    def background_imageSELECTOR(quote):
        for idea in ideas:
            if idea == quote:
                background_image = ImageClip("images/" + idea + ".JPG")
                break
            else:
                background_image = ImageClip(randomimages)
        return background_image

    quotespeech = AudioFileClip("quote.mp3")
    music = ["music/piano.mp3", "music/watrfluid.mp3", "music/zllypeppy.mp3", "music/anotherpiano.mp3", "music/anime.mp3", "music/relaxed.mp3"]
    randommusic = random.choice(music)
    bg_music = AudioFileClip(randommusic).volumex(0.1)

    final_clip = CompositeVideoClip([background_imageSELECTOR(astr), photo.set_pos('center')])

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final_clip.set_duration(bg_music.duration)
concat = CompositeAudioClip([bg_music, quotespeech])
final_clip = final_clip.set_audio(concat)
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final_clip.set_duration(quotespeech.duration).write_videofile("finalvideo/"+ quotepl[quotelist.index(randomauthor)].lower()+" majestic quotes #quotes #shorts #majesticq
video_Create(number, color)
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#credits:
#photos are all from Unsplash.com and Freepik.com
#gtts module is distributed by Google at https://pypi.org/project/gTTS/
#Pillow (module) is the friendly PIL fork by https://github.com/python-pillow/Pillow/graphs/contributors.
#bs4 module: https://www.crummy.com/software/BeautifulSoup/
#moviepy.editor module: https://zulko.github.io/moviepy/ written by Zulko
#inquirer module: https://github.com/magmax/python-inquirer
#music from Pixabay.com
#font: https://fonts.google.com/specimen/Merriweather+Sans?query=merr
#quotes from: https://www.brainyquote.com/
#requests, random, time, and textwrap are built-in python modules
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