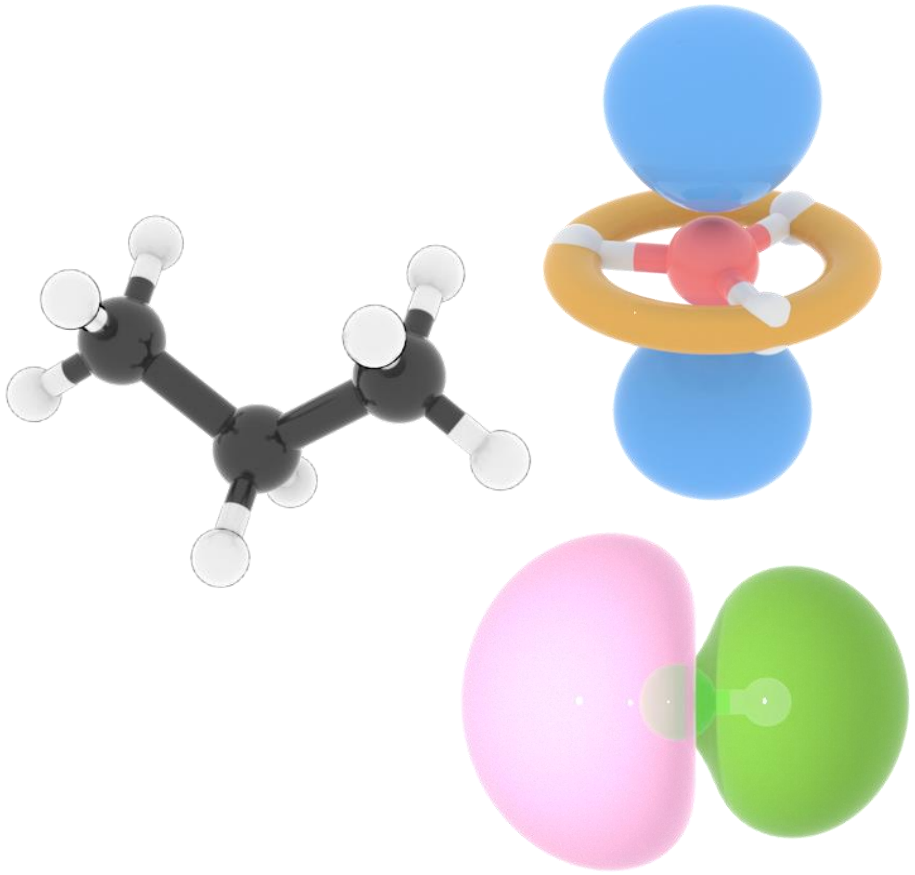

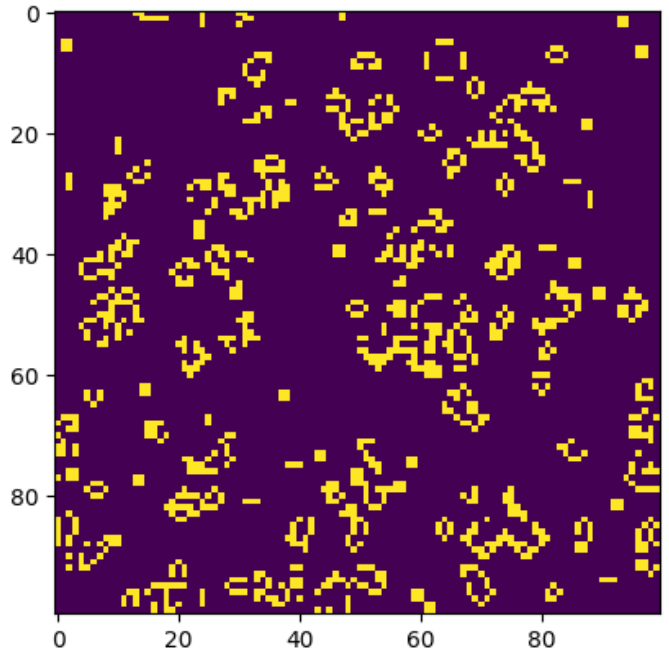

ascii_gen.py - C:\Users\phfer\OneDrive\Desktop\exercises\pic_to_ascii\ascii_gen.py (3.11.4)

File Edit Format Run Options Window Help

```python
import numpy as np
import os
from PIL import Image, ImageFont, ImageDraw
from collections import deque
import re
import time


characters = """ .:ilwmW%"""
image_path = "equation.PNG"
output_file = "equation.txt"
image = Image.open(image_path)
#i

def write_text(text: str) -> None:
    font = ImageFont.truetype('arialbd.ttf', 12) #load the font
    size = font.getbbox(text)[-2:]  #calc the size of text in pixels
    image = Image.new('1', size, 1)  #create a b/w image
    draw = ImageDraw.Draw(image)
    draw.text((0, 0), text, font=font) #render the text to the bitmap
    pixels = np.array(image, dtype=np.uint8)
    chars = np.array(['#',' '], dtype="U1")[pixels]
    strings = chars.view('U' + str(chars.shape[1])).flatten()
    print( "\n".join(strings))

def l2ascii(image: "Image", output_file: str = None,
                characters: str = " .:ilwmW",
                res: int = 100) -> None:
    n_char = len(characters)
    w, h = image.size
    image = image.resize((2*res, int(res/w*h))).convert("L")
    w, h = image.size
    l = np.asarray(image, dtype = float)
    char_index = n_char-1-(n_char*l/(l.max()+1)).astype(np.uint16)
    chars = np.array(list(characters), dtype="U1")[char_index]
    strings = chars.view('U' + str(chars.shape[1])).flatten()
    string = "\n".join(strings)
    if output_file:
        with open(output_file, "w") as f:
            f.write(string)
    return string

def animate_dir(path):
    for p in os.listdir(path):
        os.system("cls")
```

Ln: 1 Col: 0

equation.txt - Notepad

File Edit Format View Help

Ln 57, Col 261 20% Windows (CRLF) UTF-8