AsciiArtConverter

Description

This python program captures live video from your webcam and detects visible skin areas using a color filter and renders them as real time ascii art on the screen.

How It Works

- 1. Capture frames from the webcam.
- 2. Convert the frame to YCrCb and use a skin mask.
- 3. Convert the result to grayscale.
- 4. Map brightness values to ascii characters.
- 5. Draw ascii characters into an OpenCV image buffer.
- 6. Display the final ascii rendered frame.

Requirements

- Python 3.x
- OpenCV (cv2)
- NumPy

Install dependencies using pip:

```
pip install opencv-python numpy
```

Usage

Run the script:

```
python main.py
```

Press q to exit the program.

Configuration

- Ascii characters used: .:+=*%@.
- Adjust cols and rows to change the resolution.
- Window size can be set using width and height variables.

Notes

Works best in good lighting conditions.