README.md

Face Pixelizer CLI App

A command-line interface application to pixelize faces in images using the Face Pixelizer API by APILayer. This tool allows you to process images directly from a web URL or a local file on your device.

Features

- Pixelize faces in images from a web URL.
- Pixelize faces in images from a local file.
- Download the resulting pixelized image to your local machine.
- Clear and colored command-line output.
- Detailed help messages (`-h` , `--help`).

Prerequisites

- Python 3.6 or higher.
- An API key for the Face Pixelizer API from APILayer.
- Internet connection to access the API and download the resulting image.

Installation

It is highly recommended to use a Python virtual environment to avoid conflicts with your system's Python installation.

1. **Clone or download the script**: Save the Python code provided in the immersive document as `pixelizer_app.py` .
2. **Create a virtual environment**: Open your terminal or command prompt and navigate to the directory where you saved `pixelizer_app.py` . Then run:

```
python3 -m venv .venv
```

3. **Activate the virtual environment**:
    - On macOS and Linux:

      ```
      source .venv/bin/activate
      ```

    - On Windows (Command Prompt):

      ```
      .venv\Scripts\activate.bat
      ```

    - On Windows (PowerShell):

      ```
      .venv\Scripts\Activate.ps1
      ```

    Your terminal prompt should change to indicate the virtual environment is active (e.g., `(.venv) ...`).

4. **Install required packages**: With the virtual environment activated, install the necessary Python packages (requests and colorama):

   ```
   pip install requests colorama
   ```

   Alternatively, if a `requirements.txt` file is provided with the script, you can install dependencies using:

   ```
   pip install -r requirements.txt
   ```

Getting an API Key

1. Go to the APILayer website.
2. Find and subscribe to the Face Pixelizer API.
3. Obtain your API key from your APILayer account dashboard.

Usage

Activate your virtual environment (if not already active) before running the script:

- On macOS and Linux:

```
source .venv/bin/activate
```

- On Windows (Command Prompt):

```
.venv\Scripts\activate.bat
```

- On Windows (PowerShell):

```
.venv\Scripts\Activate.ps1
```

Run the script using the `python` or `python3` command, providing your API key and either the `--url` or `--file` argument.

```
python pixelizer_app.py --api-key YOUR_API_KEY --url "https://example.com/pat
```

```
python pixelizer_app.py --api-key YOUR_API_KEY --file "/path/to/your/local/im
```

Optional: Specify Output File

Use the `--output` argument to specify the path and filename for the downloaded pixelized image.

```
python pixelizer_app.py --api-key YOUR_API_KEY --url "https://example.com/pat
```

If `--output` is not provided, the image will be saved in the current directory with a default filename (e.g., `pixelized_image.jpg`).

Command-Line Arguments

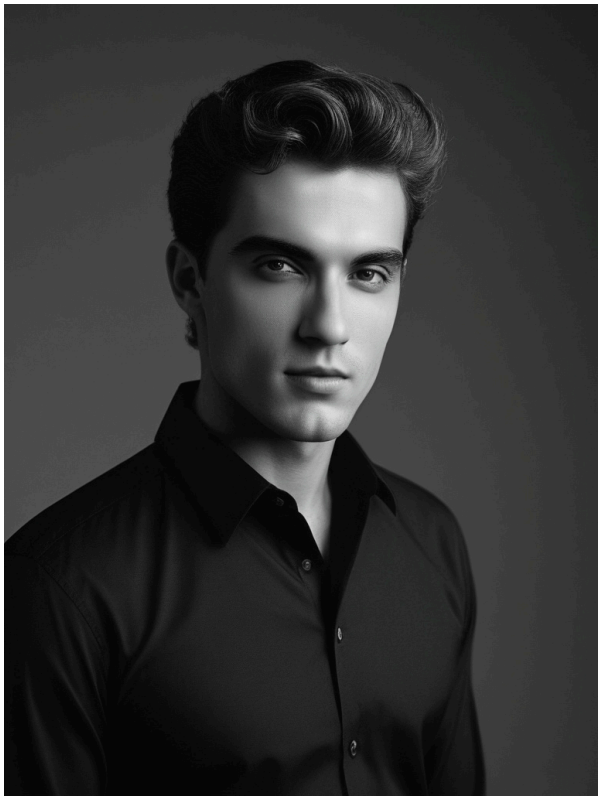
- `-h, --help`: Show the help message and exit.
- `--api-key API_KEY` (Required): Your API key for the Face Pixelizer API.
- `--url URL`: URL of the image to pixelize. (Required if `--file` is not used)

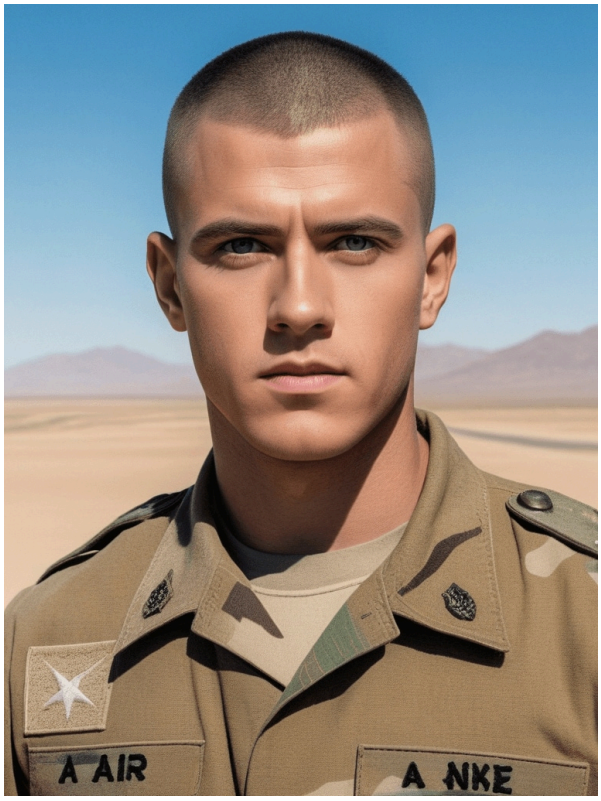
- `--file FILE` : Path to the local image file to pixelize. (Required if `--url` is not used)
- `--output OUTPUT` : Path and filename to save the pixelized image. Defaults to `pixelized_image.jpg` in the current directory.

Examples (Before and After)

Here you can showcase the results of using the Face Pixelizer CLI App.

Before	After
	
{: height="150"}	{: height="150"}

Before	After
	
{: height="150"}	{: height="150"}
	
{: height="150"}	{: height="150"}

Before	After
	
{: height="150"}	{: height="150"}

Error Handling

The script includes basic error handling for API requests, file not found errors, and download issues. Error messages will be printed to the console in red. Common errors include invalid API keys, network issues, or incorrect file paths.

Man Page

Documentation for the `man` command is provided in a separate file (`pixelizer_app.man`). You can use this source to generate a man page on your system.

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