#### 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.

- Clone or download the script: Save the Python code provided as pixelizer\_app.py.
- 2. **Create a virtual environment:** Open your terminal or command prompt and navigate to the directory where you saved <code>pixelizer\_app.py</code>. 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:

```
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. You can directly access the Face Pixelizer API page here: https://apilayer.com/marketplace/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
```

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```
# On Windows (Command Prompt)
.venv\Scripts\activate.bat

# On Windows (PowerShell)
.venv\Scripts\Activate.ps1
```

Run the script using the python or python3 command. You can provide your API key in two ways:

#### Using the --api-key argument:

```
python pixelizer_app.py --api-key YOUR_API_KEY --url
"https://example.com/path/to/image.jpg"

or

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

Replace YOUR\_API\_KEY with your actual API key.

#### Using an api\_key.txt file:

Create a plain text file named <code>api\_key.txt</code> in the same directory as <code>pixelizer\_app.py</code>. Paste your API key into the first line of this file and save it. Ensure there are no extra spaces or lines before or after the key. Then, you can run the script without the <code>--api-key</code> argument:

```
python pixelizer_app.py --url "https://example.com/path/to/image.jpg"
or

python pixelizer_app.py --file "/path/to/your/local/image.png"
```

The script will automatically read the key from api\_key.txt.

#### **Optional: Specify Output File**

localhost:6419

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/path/to/image.jpg" --output
"output/pixelized_photo.jpg"
```

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: Your API key for the Face Pixelizer API. If not provided, the script will look for it in api\_key.txt
- --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.

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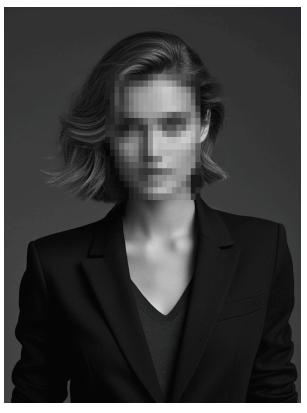
#### Before After



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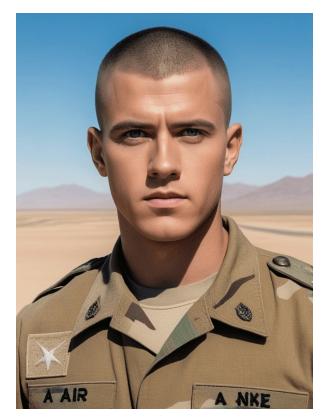


{: height="150"}

# Before



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# After



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### **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.

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localhost:6419 7/7