No Face No Case

Intro

This app allows users to process videos and images by applying **face-detection-based effects**, such as pixelation, blurring, and overlaying custom images. It is designed to run smoothly with an easy-to-use graphical interface built using `tkinter`.

⚠ Windows Security Warning Notice

If Windows displays a security warning when you run the app, follow these steps to proceed:

1. A **“Windows protected your PC”** message will appear.
2. Click on **“More info”** to reveal additional options.
3. Click **“Run anyway”** to start the app.

Note: This happens because the app is not digitally signed. It is safe to use if downloaded from a **trusted source**.

Features

- **File Management:**
  - Select media files (video or image) for processing.
  - Define an output directory.
  - Automatically generate metadata (filename, creation date, and location).
- **Effect Options:**
  - Pixelation effect with adjustable pixel size.
  - Blur effect with adjustable blur strength.
  - Overlay custom images on detected faces.
- **Face Detection:**
  - Uses `YOLO` face detection for identifying faces in frames.
  - Expand detected face area with a configurable expansion ratio.
- **Confidence Threshold:**
  - Adjust confidence level for face detection to reduce false positives or false negatives.
- **Preview and Controls:**
  - Real-time preview of image or video.
  - Enable or disable preview mode.
  - Play, pause, and stop video playback.
  - Search through the video for a specific frame using a slider.
- **Additional Options:**
  - Enable extra frame processing for smoother transitions.

    - View file specifications, including resolution, FPS, and size.
- **Processing Feedback:**
    - Progress bar during processing.
    - Elapsed time display.
    - Notification upon completion with a link to the output file.

Installation

Option 1: Using the .exe (Easiest Method)

1. **Download** the `.exe` file from the official source (e.g., GitHub or provided link).
2. **Double-click** the `.exe` file.
3. Follow the **on-screen instructions** to install the application.
4. Once installed, find the application in your **Start Menu** or **Desktop** and open it.

Option 2: Manual Installation (For Advanced Users)

Step 1: Download the Repository

Option A: Using Git (Recommended)

1. Install Git if you don't have it or download the repository. (https://github.com/El0Lobo/No-Face-No-Case).

2. Open **Command Prompt** (Windows) or **Terminal** (Mac/Linux).

3. Run:

   ```
   git clone https://github.com/El0Lobo/No-Face-No-Case
   ```

4. This creates a folder with all the project files.

Option B: Downloading as a ZIP File

1. Go to the **GitHub page** of the project.
2. Click the **"Code"** button.
3. Select **"Download ZIP"**.
4. Extract the ZIP file to a folder on your computer.

**Step 2: Install Python*

1. Download Python from https://www.python.org/downloads/.

2. **During installation**, check **"Add Python to PATH"**.

3. Complete the installation.

4. To verify installation, open **Command Prompt** and type:

   ```
   python --version
   ```

   It should return `Python 3.x.x`.

Step 3: Install Dependencies

1. Open **Command Prompt** (Windows).
2. Navigate to the project folder:

   ```
   cd path/to/your/project-folder
   ```

3. Install required libraries:

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

Step 4: Configure Environment Variables (Optional but Recommended)

1. Ensure `ffmpeg` is installed and added to your system's PATH. (if not using the .exe)
2. If necessary, set up any additional environment variables required for the application.

Step 5: Run the Application

Run:

```
python main.py
```

If installed correctly, the application should launch.

Dependencies

The following libraries are used in this project:

- `opencv-python (cv2)`
- `ultralytics (YOLO model)`
- `tkinter`, `ttkthemes`, and `tkcalendar` (for GUI components)
- `Pillow` (for image manipulation)
- `ffmpeg-python` (for video processing)
- `webbrowser`, `datetime`, and `subprocess` (for auxiliary functions)

Usage Instructions

1. **File Setup:**
    - Select a media file by clicking the **“Browse”** button.
    - Define the output folder and file metadata.
2. **Effects Configuration:**
    - Enable pixelation, blur, and overlay effects as needed.
    - Adjust effect parameters using sliders.
3. **Processing:**
    - Click the **“Process”** button to start.
    - View progress and elapsed time during the process.
    - Once completed, the output file will be saved in the specified directory.
4. **Preview and Controls:**
    - Use the preview window to inspect your media.
    - For videos, use the **play, pause, stop, and seek** controls.

Customizable Options

Option	Description	Adjustable Values
Pixel Size	Adjust size of pixels	0.5 to 10 (slider)
Blur Strength	Adjust blur intensity	3 to 101 (slider)
Overlay Image	Add a custom overlay on detected faces	Select file
Face Expansion	Expand detected face area	0.5 to 2.0 (slider)
Confidence Threshold	Adjust face detection confidence	0.1 to 1.0 (slider)
Extra FPS	Enable additional frames	Spinbox (1 to 15)

Notes

- Ensure you have `ffmpeg` installed and added to your system’s PATH.
- The application uses a pre-trained `YOLO model` for face detection.

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Credits

Developed by **ACME Prototypes**.
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