**Spray Paint Drawing Tool - User Manual**

**1. Introduction**

The **Spray Paint Drawing Tool** is an automated program that replicates images in a spray paint application by simulating mouse movements and color selections. It processes an input image and draws it pixel by pixel in the target application.

**Key Features:**

* Supports **JPG, PNG, and JPEG** images
* Optimized for black/white pixels (uses ruler tool for efficiency)
* Customizable drawing boundaries and RGB input fields
* Progress tracking with estimated time remaining
* Pause/resume functionality

**2. Installation & Requirements**

**Requirements:**

* **Python 3.7+**
* **AutoHotkey (AHK)** installed and configured
* **Pillow (PIL), pynput, keyboard, tkinter** Python libraries

**Installation Steps:**

1. Install Python from [python.org](https://www.python.org/downloads/)
2. Install required libraries:

sh

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pip install pillow pynput keyboard ahk

1. Install **AutoHotkey** from [autohotkey.com](https://www.autohotkey.com/)
2. Run the script:

sh

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python spray\_paint\_tool.py

**3. Interface Overview**

**Main Window Sections:**

1. **Image Selection** – Load an image to process.
2. **Drawing Boundaries** – Set the coordinates of the drawing area.
3. **RGB Input Fields** – Define where to input R, G, B values.
4. **Settings** – Configure start delay and ruler mode.
5. **Control Buttons** – Start, stop, process, and track progress.

**4. Step-by-Step Usage**

**1. Select an Image**

* Click **"Select Image"** and choose a JPG/PNG file.
* The filename will appear in the status bar.

**2. Set Drawing Boundaries**

The program needs to know the exact coordinates of the drawing area.

**Manual Input:**

* Enter X/Y coordinates for:
  + **Top Left, Top Right, Bottom Left, Bottom Right**
* Click **"Save Coordinates"** to store them.

**Auto-Capture (Recommended):**

1. Click **"Capture Boundaries (F+Alt+LMB)"**
2. The window will minimize.
3. In your drawing app:
   * Hold **F + Alt** and **Left-Click** the **four corners** of the drawing area.
4. The program will save the coordinates automatically.

**3. Set RGB Input Fields**

The tool needs to know where to input R, G, and B values.

**Manual Input:**

* Enter X/Y positions for **Red, Green, Blue** fields.
* Click **"Save RGB Fields"** to store them.

**Auto-Capture (Recommended):**

1. Click **"Capture RGB Fields (Alt+F+RMB)"**
2. The window will minimize.
3. In your drawing app:
   * Hold **Alt + F** and **Right-Click** the **R, G, and B** input fields.
4. The program will save the positions automatically.

**4. Configure Settings**

* **Start Delay (seconds):** Countdown before drawing begins.
* **Use Ruler for Black/White:** (Enabled by default) – Speeds up drawing for black/white pixels.

**5. Process the Image**

* Click **"Process Image"** to analyze colors and pixel distribution.
* A popup will show processing time and color statistics.

**6. Start Drawing**

* Click **"Start Drawing"** to begin.
* A progress window shows:
  + Completion percentage
  + Estimated time remaining
  + Current color being drawn

**7. Pause/Resume/Stop**

* **Pause:** Press **Shift + M**
* **Resume:** Press **Shift + N**
* **Stop:** Click **"Stop"**

**8. Saving the Drawing**

* The program automatically clicks the **Save button** and enters the filename.
* The saved file will match the original image name.

**5. Troubleshooting**

**Common Issues & Fixes:**

| **Issue** | **Solution** |
| --- | --- |
| Program doesn’t click correctly | Check AHK is running and coordinates are set properly |
| Colors are wrong | Verify RGB input field positions |
| Drawing is misaligned | Re-capture boundary coordinates |
| Program is too slow | Reduce image resolution before processing |

**6. Tips for Best Results**

✔ **Use simple images** (low complexity = faster drawing).  
✔ **Enable ruler mode** for black/white drawings (much faster).  
✔ **Close background apps** to prevent interruptions.  
✔ **Test on a small area first** before full-scale drawing.

**7. Conclusion**

This tool automates spray paint drawings with precision. For best results, ensure correct boundary and RGB field setup.

**Happy Drawing!** 🎨