# **Lower Thirds Generator: User Manual**

### Introduction

The Lower Thirds Generator is a powerful tool that creates professional-looking lower third graphics from Excel or CSV files. Lower thirds are the text overlays typically seen at the bottom of videos to identify speakers, locations, or provide additional information.

This guide will help you set up and use the Lower Thirds Generator, even if you have limited programming experience.

# **System Requirements**

- Python 3.6 or higher
- Windows, macOS, or Linux operating system
- Basic understanding of using command-line/terminal
- An Excel (.xlsx) or CSV file with your text data

## **Installation Guide**

### **Step 1: Install Python (if not already installed)**

- 1. Visit python.org/downloads/
- 2. Download the latest version for your operating system
- 3. Run the installer
  - o On Windows: Make sure to check "Add Python to PATH" during installation
  - On macOS/Linux: The installer should handle path settings automatically

## **Step 2: Install Required Dependencies**

Open your command prompt (Windows) or terminal (macOS/Linux) and run the following commands:

pip install pillow pandas numpy

If you want to create TIFF images with 16-bit depth, also install:

pip install tifffile

### **Step 3: Download the Lower Thirds Generator**

Download the <code>l3rds\_enhanced.py</code> script from the source provided to you.

## **Preparing Your Data**

Create an Excel (.xlsx) or CSV file with at least the following columns:

- 1. **Main Text**: The primary text (typically a name)
- 2. **Secondary Text**: The secondary text (typically a title or description)
- 3. **Justification**: Text position ("Left", "Right", "Center", "Lower Left", etc.)
- 4. **Main Font**: Font name or path to a font file

Optional columns you can add:

- Secondary Font: Font for the secondary text
- File Name: Custom filename for the output image
- Main Font Size: Custom font size for the main text
- Secondary Font Size: Custom font size for the secondary text
- Padding: Additional padding from the edge (in pixels)
- Main Color: Color for the main text (e.g., "white", "red", "#FFFFFF")
- Secondary Color: Color for the secondary text
- Background Color: Background color for the image
- Bar Color: Color for the lower third bar with optional transparency (e.g., "blue,128")
- **Text Outline**: Outline for text (format: WIDTH,COLOR[,OPACITY], e.g., "2,black")
- **Text Shadow**: Enable shadow (Yes/No or True/False)
- Shadow Color: Color for text shadow

## **Running the Script**

## **Basic Usage**

- 1. Open your command prompt or terminal
- 2. Navigate to the folder containing the script

```
cd path/to/script/folder
```

3. Run the script with your input file and output folder

```
python l3rds_enhanced.py input.xlsx output_folder
```

This will generate lower thirds for all rows in your Excel/CSV file and save them in the specified output folder.

### **Testing Your Settings**

Before generating all images, you can test the settings on the first row:

```
python l3rds_enhanced.py input.xlsx output_folder --test
```

This will generate and preview only the first image, showing you all the settings being used.

## **Common Command Options**

Here are some commonly used options:

```
--width 1920 Set the image width (default: 1920)
--height 1080 Set the image height (default: 1080)
--bg-color blue Set background color (default: black)
--text-color yellow Set main text color (default: white)
--bar-color "red,128" Set bar color with opacity (default: black,0)
--transparent Use transparent background
--text-shadow Enable text shadow effect
--format png Output format: png, jpg, or tiff (default: png)
```

# **Color Specification**

You can specify colors in several ways:

- 1. Color names: "red", "blue", "darkgreen", "lightblue", etc.
- 2. **Hex codes**: "#FF0000" (red), "#0000FF" (blue)
- 3. **RGB values**: "255,0,0" (red), "0,0,255" (blue)
- 4. **With transparency**: "red,128" (semi-transparent red)

#### Colors in Excel vs. Command Line

Colors specified in your Excel/CSV file will override command-line options for individual rows. This allows you to have different color schemes for different lower thirds in the same batch.

## **Example Command Lines**

### Basic usage with default settings:

python l3rds\_enhanced.py credits.xlsx output\_images

## **Change dimensions and format:**

python l3rds\_enhanced.py credits.xlsx output\_images --width 1280 --height 720 --format

## **Custom colors with transparency:**

python l3rds\_enhanced.py credits.xlsx output\_images --bg-color black --text-color whit

#### Add text effects:

python l3rds\_enhanced.py credits.xlsx output\_images --text-shadow --shadow-color "blac

# **Troubleshooting**

#### **Common Issues:**

- 1. "Python is not recognized as a command":
  - Solution: Make sure Python is installed and added to your PATH
- 2. "Module not found" errors:
  - Solution: Install missing modules using pip

```
pip install [module_name]
```

- 3. Font not found:
  - Solution: Specify the full path to the font file or use a common system font
- 4. Issues with transparency:
  - Solution: Make sure to use PNG or TIFF format (JPG doesn't support transparency)
- 5. Image quality issues:
  - Solution: Use TIFF format with 16-bit depth for highest quality

```
python l3rds_enhanced.py input.xlsx output_folder --format tiff --bit-depth 16
```

## **Advanced Usage**

For more control over your lower thirds, explore these additional options:

```
--shadow-offset 4,4 Adjust shadow offset (default: 2,2)
--shadow-blur 30 Adjust shadow blur amount (default: 20)
--shadow-opacity 200 Adjust shadow opacity (default: 128)
--letter-spacing 2 Adjust spacing between characters
--vertical-spacing 20 Adjust space between main and secondary text
--text-transform upper Transform text case (none, upper, lower, title)
--bar-height 150 Set custom height for the lower third bar
```

## **Getting Help**

To see all available options and detailed help:

```
python l3rds_enhanced.py --help
```

This will display comprehensive information about all the parameters and options available.

# **Example Workflow**

- 1. Create your Excel file with names, titles, and optional color settings
- 2. Test settings on the first entry:

```
python l3rds_enhanced.py names.xlsx output --test
```

- 3. Adjust settings if needed
- 4. Generate all lower thirds:

```
python l3rds_enhanced.py names.xlsx output
```

5. Use the generated images in your video editing software

By following this guide, you should be able to create professional-looking lower thirds for your videos quickly and easily, even with limited programming experience.