

# Enfuse<sub>script</sub>

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13-01-2026

## 1 Introduction

Enfuse<sub>script</sub> is a shell script written in bash. The main objective of the script is to provide a good user experience,coupled with what i consider "good defaults" for "simple" image manipulation. If you are interested in learning more about the tools used in this script,refer to the official `enfuse`,`alignimagestack` and `drawing` manpages.

### 1.1 Structure

The script was created to satisfy the need for simple image blending(not HDR) and stacking,nothing too advanced or complicated to use. It means that images with vastly different FOV(field of view) or focus will produce poor results. The script is divided in 3 parts:

n°PARTS	tools
1. .tiff Conversion	<code>drawing</code>
2. Blending	<code>align<sub>imagestack</sub></code> + <code>enfuse</code>
3. Stacking	<code>align<sub>imagestack</sub></code> + <code>enfuse</code>

**warning:** .tiff conversion is an optional built-in feature. The files are required to be tiff,png because of the different utilities used,tiff is the chosen format because of its specifications,widespread adoption and support(`drawing`,`alignimagestack`,`enfuse`).

### 1.2 Installation

Follow the installation process:

```
//clone the repo
git clone https://github.com/mattF11/enfuse-script

//cd into directory
cd enfuse-script

//add the necessary permissions
chmod +x enfuse_script.sh

//you can add it to your PATH,remember to type:
source ~/.bashrc
```

### 1.3 Usage

To run the script follow the instructions:

```
//cd into directory
cd enfuse-script

//run the script
```

```
./enfuse-script.sh  
  
//if the directory was previously added to your PATH,  
//you don't need to cd into enfuse-script, just run it:  
enfuse_script.sh
```

The search feature does not require the user to be into the directory where the images are stored. The script will guide the user,everything is explained,there is no need to provide images or a samples for it.