Image Workflow Tool

A tool for processing images for web upload: converts formats, resizes, adds copyright metadata, and applies watermarks.

Installation Requirements

1. Install Python dependencies:

```
pip install pillow
pip install pillow-heif # For HEIC file support
```

2. **Install ExifTool:** If you don't already have it, install ExifTool using Homebrew:

```
brew install exiftool
```

Basic Usage

- 1. Create an (input) directory and place your original images there
- 2. Run the script with default settings:

```
python image workflow.py
```

The script will:

- Create working and output directories if they don't exist
- Convert all images to JPG format
- Resize to max 1024px on longest dimension
- Add copyright metadata for "Cooper Graham Beckel"
- Add a simple watermark with your name
- Place final images in the output directory

Customization Options

Directories

```
--input-dir DIRECTORY Directory containing input images (default: input)
--working-dir DIRECTORY Directory for temporary working files (default: working)
--output-dir DIRECTORY Directory for final processed images (default: output)
```

Image Size

```
--max-dimension PIXELS Maximum dimension in pixels (default: 1024)
```

Copyright

Watermark Appearance

```
--watermark-text TEXT Custom watermark text (defaults to copyright holder name)
--watermark-opacity DECIMAL Watermark transparency (0-1, default: 0.5)
--watermark-font-size PIXELS Font size for watermark (default: 40)
--watermark-scale PERCENT Size as percentage of image dimension (1-50)
--watermark-font-color R,G,B Font color in RGB format (default: 255,255,255 for white)
```

Watermark Placement

Filename Modification

Example Commands

Basic with larger size

```
python image_workflow.py --max-dimension 1500
```

Subtle watermark

```
python image_workflow.py --watermark-opacity 0.2 --watermark-scale 3
```

Pattern watermark

```
python image_workflow.py --watermark-repeat --watermark-angle 30 --watermark-text "© Cooper Beckel"
```

Custom workflow

```
python image_workflow.py --input-dir raw-photos --output-dir web-ready --max-dimension 2000 --watermark-text "© Cooper Beckel" --watermark-scale 5 --watermark-font-color 255,255,0 --watermark-repeat
```

Filename modification examples

Add prefix to filenames

```
python image_workflow.py --prepend-text "vacation_"
```

Result: image.jpg → vacation_image.jpg

Add suffix to filenames

```
python image_workflow.py --append-text "_edited"
```

Result: image.jpg → image_edited.jpg

Add sequential numbering

```
python image_workflow.py --enumerate
```

Result: beach.jpg → beach_1.jpg, sunset.jpg → sunset_2.jpg

Numbered series with zero padding

```
python image_workflow.py --enumerate --enum-start 1 --enum-padding 3
```

Result: beach.jpg → beach_001.jpg, sunset.jpg → sunset_002.jpg

Combining naming options

```
python image_workflow.py --prepend-text "hawaii_" --append-text "_trip" --
enumerate --enum-padding 2
```

Result: beach.jpg → hawaii_beach_01_trip.jpg

Supported File Types

The script supports various image formats including:

- JPG/JPEG
- PNG
- HEIC/HEIF (requires pillow-heif module)
- TIFF/TIF
- GIF
- BMP