

Working with images from CLI

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Abstract

Quick reference for common image manipulations that can be achieved from a CLI. This is useful for automatically processing many images in bulk.

Contents

1 Requirements	1
2 Basic image manipulation	1
2.1 Converting images	1
2.2 Resizing images	1
2.3 Rotating an image	2
3 Optimizing images for the web	2
3.1 Losslessly compress PNG	2
3.2 Losslessly compress GIF	2
3.3 Losslessly compress JPG	2

1 Requirements

Tools used throughout this document:

- ImageMagick
- optipng
- gifsicle
- jpegoptim

2 Basic image manipulation

Converting, resizing, and rotating images can be done using ImageMagick.

2.1 Converting images

```
convert image.jpg image.png
```

2.2 Resizing images

The following command will resize the image and preserve the aspect ratio.

```
convert image.png -resize 500x500 image.png
```

Optionally, an exclamation mark can be added to force the specified size:

```
convert image.png -resize 500x500! image.png
```

2.3 Rotating an image

```
convert image.png -rotate 90 image.png
```

3 Optimizing images for the web

3.1 Losslessly compress PNG

```
optipng -o7 -f4 -strip all -clobber image.png
```

3.2 Losslessly compress GIF

```
gifsicle -03 image.gif
```

3.3 Losslessly compress JPG

```
jpegoptim --strip-all image.jpg
```