

ImageMagick Helper

Description

ImageMagick Helper is a wrapper for ImageMagick.

ImageMagick is a versatile tool for image manipulation such as :

- Format conversion
- Color management,
- Filters
- Watermark
- ...



With this app, it will ease ImageMagick integration within Enfocus Switch without having to know the CLI syntax

If you already mastered this art, you can set-up custom CLI instructions as well!

Compatibility

Switch 2023 fall or higher.
ImageMagick V7 or higher.

Dependency

imageMagick: <https://imagemagick.org/script/download.php>
GhostScript (for PDF related action) : <https://ghostscript.com/releases/gsdnld.html>

Connections

At least one incoming connection and one traffic light outgoing connection.

Features integration

A feature you want is missing?

Send us a message at appstore@bluewest.fr, and we will take time to add it for the next release.

Use cases

- **Automated Image Conversion:**
Convert images between various formats (e.g., JPEG, PNG, TIFF) automatically as part of a larger workflow. This is especially useful when preparing images for different platforms or print requirements.
- **Batch Image Resizing and Cropping:**
Automatically resize or crop large batches of images to meet specific dimensions or aspect ratios, a common need in web and print design projects.
- **Color Correction:**
Apply automated color corrections to images. This can include adjustments to brightness, contrast and much more
- **Adding Watermarks:**
Automatically apply watermarks to images to protect intellectual property without manual intervention.
- **Image Composition:**
Combine multiple images into a single image file (e.g., creating collages or adding background images) as part of automated graphic design workflows.
- **Creating Thumbnails:**
Generate thumbnails for a large set of images automatically, useful for web galleries, product catalogs, and online stores.
- **Image Optimization for Web:**
Automate the process of optimizing images for the web, including compression and format changes, to improve page load times without sacrificing visual quality.

Flow element properties

- **Path to ImageMagick**

If ImageMagick is defined as an environment variable (as it should be with a standard installation), you can use the "automatic" mode.

If not, select the path to the ImageMagick executable.

- **Action(s)**

Choose from the available action.

You can set up to five actions that will be executed sequentially on your image.

Each action has its own sub-properties.

Refer to tooltips or [official documentation](#) for further explanation.

- **Output format**











Choose the extension format to which your file will be converted. "Current" will keep your file's current extension.













Note that some format conversions may require additional dependencies (GhostScript for PDF).












- **Dataset model**













Model of dataset that will be used for the Log outgoing connection.















Example :

Action	Properties	Base image	Result
Add border	Color : red Width : 20		
Auto-gamma	/		
Auto-level	/		
Background	Color : red		
Blur	Type : Motion Angle : 45 Radius : 5 Sigma : 5		

Action	Properties	Base image	Result
Brightness-contrast	Factor : 2		
Change colorspace	Colorspace : gray		
Charcoal	Factor : 1		
Composite	Composite path : RedSquare.png Composition position : Top		
Compression	Compression : JPEG Quality : 20		
Contrast	Factor : 10		

Action	Properties	Base image	Result
Encipher	CipherPath : random file, as hash		
Decipher	CipherPath : same random file		
Emboss	Radius : 5		
Gamma	Gamma value : 1.7		
Identify	/		<pre data-bbox="1246 1370 1485 1565">"PNG 100x100 100x100+0+0 8-bit TrueColorAlpha sRGB 2699B 0.000u 00.000"</pre>
Level	Gamma value : 1.1 Black point : 1 white point : 80		

Action	Properties	Base image	Result
Mirror	Orientation : Vertical		
Monochrome	/		
Negate	/		
Paint	Radius : 5		
Resample	Resolution : 250 dpi		
Resize	Width : 50 Height : 50 Width and Height ratio aspect		

Action	Properties	Base image	Result
Rotate	Angle : 90		
Sepia	/		
Sharpen	Radius : 5 Sigma : 5		
Shave	Width : 20 Height : 20		
Sketch	Radius : 5 Sigma : 5 Angle : 90		
Statistic	Radius : 200 Mode : Median		
Swirl	Angle : 270		

Action	Properties	Base image	Result
Thumbnail	Width : 50 Height : 50		
Trim	/		

XML dataset example:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<root>
  <imageMagickVersion>ImageMagick 7.1.1-4 Q16-HDRI x64 10ad43d:20230318
https://imagemagick.org</imageMagickVersion>
  <result>
    <status>success</status>
    <actions>
      <action>
        <action>add border</action>
        <status>success</status>
      </action>
      <action>
        <action>add border</action>
        <status>success</status>
      </action>
      <action>
        <action>add border</action>
        <status>success</status>
      </action>
      <action>
        <action>add border</action>
        <status>success</status>
      </action>
      <action>
        <action>add border</action>
        <status>success</status>
      </action>
      <action>
        <action>add border</action>
        <status>success</status>
      </action>
    </actions>
  </result>
</root>
```

JSON dataset example:

```
{
  "imageMagickVersion": "ImageMagick 7.1.1-4 Q16-HDRI x64 10ad43d:20230318
https://imagemagick.org",
  "result": {
    "status": "success",
    "actions": {
      "action": [
        {
          "action": "add border",
          "status": "success",
        },
        {
          "action": "add border",
          "status": "success",
        },
        {
          "action": "add border",
          "status": "success",
        },
        {
          "action": "add border",
          "status": "success",
        },
        {
          "action": "add border",
          "status": "success",
        }
      ]
    }
  }
}
```