# **FotoKilof**

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# Introduction

GUI for the common used ImageMagick functionality for processing pictures.

### **Conversions**

- scaling/resize, but keep proportion,
- crop
- text annotation (inside or outside of picture),

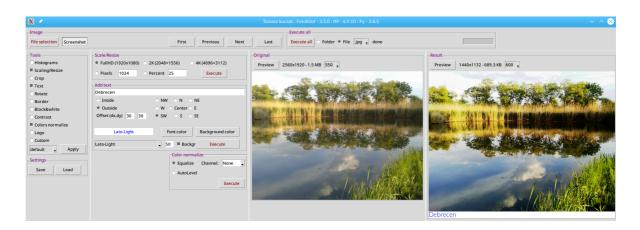
- border around picture,
- rotation,
- black-white or sepia,
- · contrast inxrease/decrease or normalize or histogram stretching,
- color normalize: auto-level or equalize,
- adding logo image o picture.

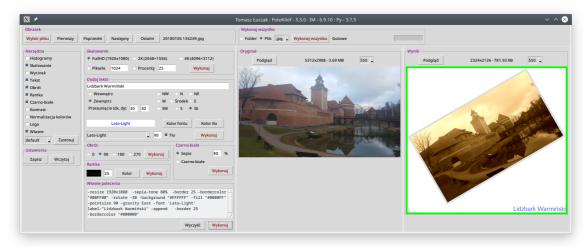
# **Functionality:**

- processing JPG, PNG, SVG and TIF images,
- conversion into JPG, PNG and TIF format,
- processing copy of picture, originals are safe,
- · processing single file or whole directory,
- make screenshots (Linux, macOS) or get picture from clipboard (Windows)
- display selected tools,
- · tools selection,
- preview orignal and result,
- resize custom (pixels or percent) or predefined: FullHD, 2k, 4k,
- crop selection via click on preview or coordinates,
- crop coordinates:
  - two corners (upper left and lower right),
  - o upper left corner and width plus height,
  - o gravity, width plus height plus offset,
- text: color, font and size selection,
- predefined rotation: 90, 180 and 270 degree or custom,
- customized sepia,
- equalize by channel,
- contrast between -3 and +3,
- customized contrast stretching,
- · histograms of original and result pictures,
- fast file navigation: First, Prev, Next, Last,
- own command editor,
- own command can be composed from executed commands,
- is possible to use other ImageMagick commands, eg. -gaussian-blur,
- · logging conversion and internal messages,
- GraphickMagick is supported partialy.

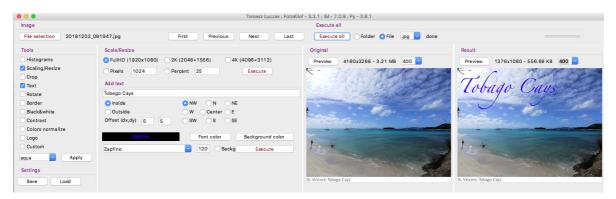
### **Screenshots**

#### Linux

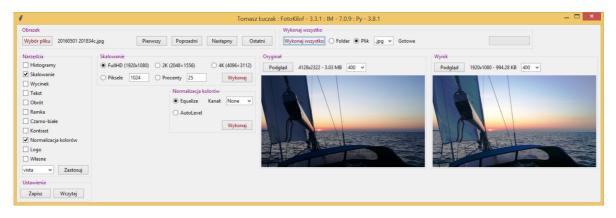




#### **Mac OSX**



#### Windows



## How to use it

- · Select image file,
- Buttons *Previous* and *Next* will open previos or next picture,

- Select required conversion,
- Click Execute.

### Make screenshots

- Click button Screenshot,
- Click (select) window for screenshot.
- or Click and drag for selection rectangle for screenshot.
- Taken picture appear in preview in FotoKilof.
- Screenshot are automatically saved in directory \$TMP/%Y-%m-%D, eg. /tmp/2020-12-26.
- Result picture is saved in sudirectory FotoKilof.

### Resize

Scaling/resize, but keep proportion.

Resize can use custom or predefined values: FullHD, 2k, 4k. Percent means percent size of original picture.

## Crop

Cut rectangular region of the image.

Crop methods:

- two corners (upper-left and lower-right),
- upper-left corner and width plus height,
- gravity, width plus height plus offset.

Remember that upper-left coordinates of original picture are (0, 0).

Coordinates is possible to type in fields or select via click on preview.

Preview button will show crop rectangle on preview.

#### **Text**

Annotate an image with text.

Is possible to choose color, font and size. Additionaly is possible to setup background with own color.

Coordinates are given as gravity plus offset.

#### Rotate

Apply Paeth image rotation (using shear operations) to the image.

Predefined dvalues: 90, 180 and 270 degrees. In *Custom comands* is possible to type any degree.

#### **Border**

Surround the image with a border of color. Is possible to choose color and type width of border (in pixels).

## Black-white/Sepia

#### **Black-white**

Convert image to grayscale

### Sepia

simulate a sepia-toned photo.

Specify threshold as the percent threshold of the intensity (0 - 99.9%). Advice from ImageMagick documentation: a threshold of 80% is a good starting point for a reasonable tone.

### **Colors normalize**

#### **AutoLevel**

Automagically adjust color levels of image

## **Equalize**

Perform histogram equalization on the image channel-by-channel.

### **Contrast**

#### **Contrast**

Enhance or reduce the image contrast. Range is beetween -3 and +3.

#### **Contrast stretch**

Increase the contrast in an image by stretching the range of intensity values.

### **Normalize**

Increase the contrast in an image by stretching the range of intensity values.

## Histogram

### **Custom conversion**

## One file or whole directory

## **Installation**

## As pypi package

```
python3 -m pip install fotokilof
fotokilof
```

## From zip

- Unzip fotokilof.zip into folder,
- make shortcut to desktop,
- and run

In future should be available installer package, by NSIS.

## Requirement

- FullHD screen for comfort work
- ImageMagick home page: <a href="https://imagemagick.org/">https://imagemagick.org/</a> or GraphicsMagick

• Windows, Linux, MacOS X, BSD

### From sources

Only for launch sources

Python3 and modules:

- via pip:
  - o configparser,
  - o tkcolorpicker (not mandatory, require PIL).
  - o PIL for Windows
- via packets:
  - o tkinter,
- should be out of the box:
  - o datetime,
  - o fnmatch,
  - o gettext,
  - o glob,
  - o os,
  - platform,
  - o re,
  - shutil,
  - o tempfile.

#### Start

`python3 fotokilof.py

## **Thanks**

- Friends for inspiration, advices and testing,
- Max von Forell German translation,
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- Max von Forell German translation
- Bozhidar Kirev Bulgarian translation
- Afif Hendrawan Indonesian translation

## License

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