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FotoKilof

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[Introduction](#)

[Conversions](#)

[Functionality:](#)

[Screenshots](#)

[Linux](#)

[Mac OSX](#)

[Windows](#)

[How to use it](#)

[Make screenshots](#)

[Resize](#)

[Crop](#)

[Text](#)

[Rotate](#)

[Border](#)

[Black-white/Sepia](#)

[Black-white](#)

[Sepia](#)

[Colors normalize](#)

[AutoLevel](#)

[Equalize](#)

[Contrast](#)

[Contrast](#)

[Contrast stretch](#)

[Normalize](#)

[Histogram](#)

[Custom conversion](#)

[One file or whole directory](#)

[Installation](#)

[As pypi package](#)

[From zip](#)

[Requirement](#)

[From sources](#)

[Start](#)

[Thanks](#)

[License](#)

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),

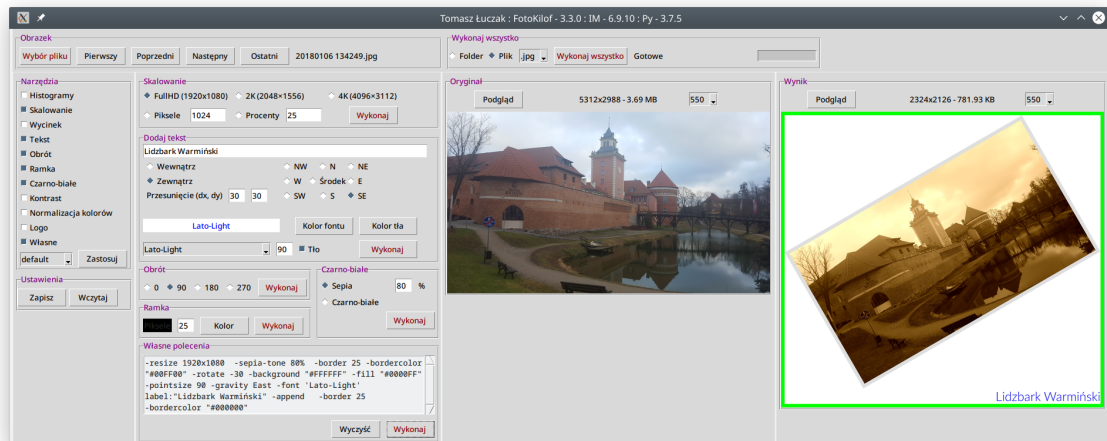
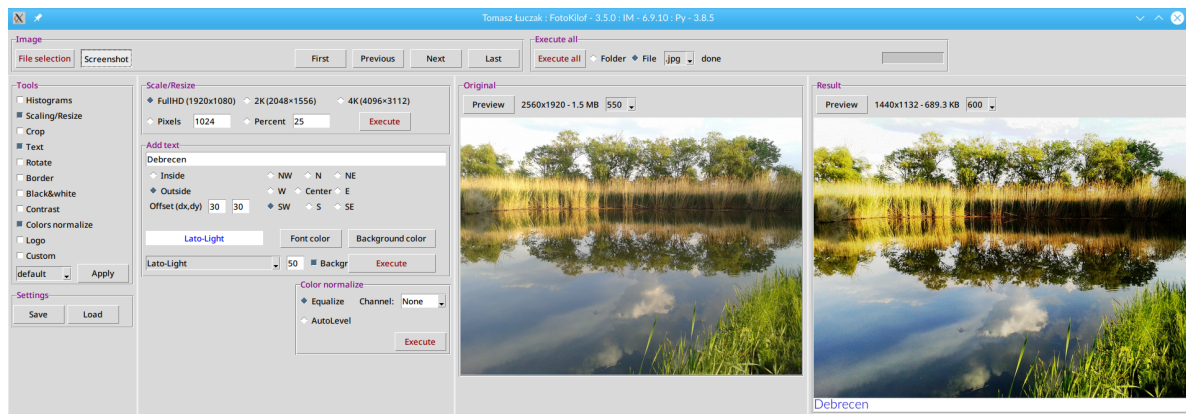
- border around picture,
- rotation,
- black-white or sepia,
- contrast increase/decrease or normalize or histogram stretching,
- color normalize: auto-level or equalize,
- adding logo image to picture.

Functionality:

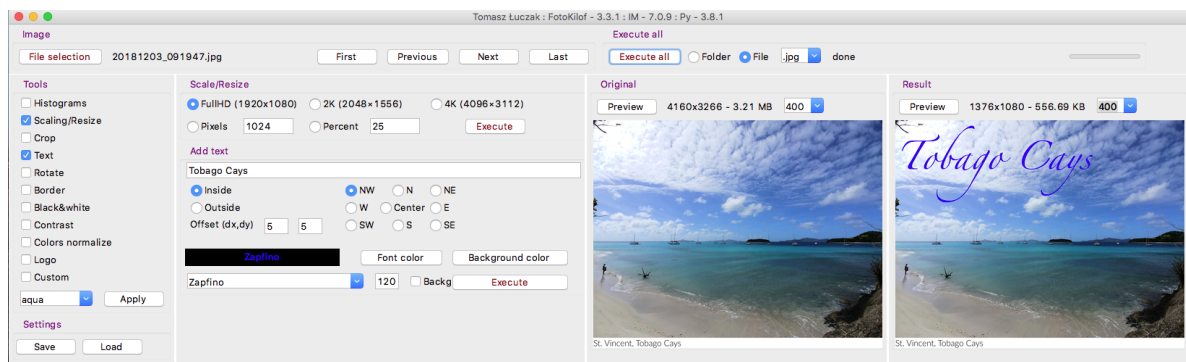
- processing JPG, PNG, SVG and TIF images,
- conversion into JPG, PNG and TIF format,
- processing copy of picture, originals are safe,
- processing single file or whole directory,
- make screenshots,
- display selected tools,
- tools selection,
- preview original and result,
- resize custom (pixels or percent) or predefined: FullHD, 2k, 4k,
- crop selection via click on preview or coordinates,
- crop coordinates:
 - two corners (upper left and lower right),
 - upper left corner and width plus height,
 - 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,
- GraphicsMagick is supported partially.

Screenshots

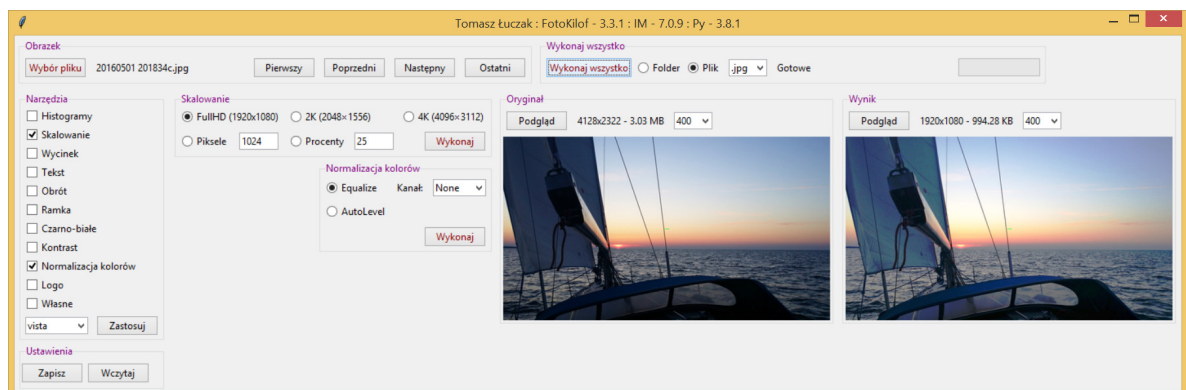
Linux



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 subdirectory *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. Additionally 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 comand*s 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 between -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

```
1 python3 -m pip install fotokilof
2 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: <https://imagemagick.org/> or GraphicsMagick

- Windows, Linux, MacOS X, BSD

From sources

Only for launch sources

Python3 and modules:

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

MIT License

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