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Ditheridoo

Pixel By Pixel

Ditheridoo is a multicolor bitmap editor for Commodore 64. It runs on 64 bit versions of Linux, MacOS and Windows.

Getting Started

Ditheridoo comes in two flavours:

- standalone executable for 64-bit systems Linux, MacOS/Darwin and Windows
- Python3 script

Standalone executable

Just download your bundle and enjoy. Keep in mind that only 64bit systems are supported as I could not find a 32bit system to generate the bundle.

Note on Windows users: If some antivirus scanner puts Ditheridoo into quanartine because it suspects a trojan or virus, simply put it out there again. It isn't harmful, I used PyInstaller to bundle the standalone executable for you. Unfortunately, the PyInstaller bootloader triggers a false alarm on some systems. I even tried my best and re-compiled the PyInstaller bootloader so that this should not happen anymore. Keep your fingers crossed;)

Python3 script prerequisites

At least this is needed to run the script directly:

- python 3
- python tkinter module
- python "The Python Imaging Library" (PIL)

On my Debian GNU/Linux machine I use apt-get to install everything needed:

```
apt-get update
apt-get install python3 python3-tk python3-pil
```

Usage

For a list of quick keyboard shortcuts and other information see file cheatsheet.

File Format

The multicolor bitmap is stored in the widely-spread KoalaPainter (C64) format:

- 2 bytes load address
- 8000 bytes raw bitmap data
- 1000 bytes raw "Video Matrix" (screen) data
- 1000 bytes raw "Color RAM" data
- 1 byte background data

Authors

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- Pararaum/The 7th Division example image Pararaum on CSDB
- Mirage/Booze Design example image Mirage on CSDB

License

Ditheridoo multicolor bitmap editor for Commodore 64.

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For futher questions, please contact me at http://csdb.dk/scener/?id=3623 or wolf@abyss-connection.de

For Python3, The Python Imaging Library (PIL), Tcl/Tk and other used source licenses see file LICENSE_OTHERS.

Ditheridoo Cheatsheet

GUI controls

key	function
Alt+q	quit
Alt+o	open file
Alt+s	save file
Alt+c	configure
Alt+p	show preview window
Alt+h	this help

mouse control

mouse action	function
right mouse button	set color
left mouse button	set other color
middle mouse button	scroll image
mouse wheel	zoom in and out

editing

key	function
Ctrl+z	undo (single pixel editing only, not
	for block-commands like cut or paste)
Ctrl+x	cut
Ctrl+c	copy
Ctrl+p	paste
m	set marker
Alt+n	normal pencil
Alt+b	checkerboard dither pencil
Alt+x	x-line dither pencil
Alt+y	y-line dither pencil
Alt+1	light dither pencil

editor visuals

key	function
plus/ minus	zoom in and out
cursor keys	scroll image

left mouse-button color

key	function
0-9a-f	select color
F1	screen-color-1 of block
F2	screen-color-2 of block
F3	colorram of block
F4	background

right mouse-button color

key	function
$\overline{\text{Shift} + 0-9a-f}$	select color
Shift+F1	screen-color-1 of block
Shift+F2	screen-color-2 of block
Shift+F3	colorram of block
Shift+F4	background

color to replace (only when in draw mode 'select'):

key	function
F5	screen-color-1 of block
F6	screen-color-2 of block
F7	colorram of block
F8	background
Space	no overwriting

notes: draw-modes

Can be set in settings window. Behaviour if too many colors are used (color-clash):

mode	description
keep color replace color	keep color if too many colors are used replace color if too many colors are used
select color	overwrite selected data: screen-color1, screen-color2, colorram or background

mode	description
dye	do not touch bitmap, only overwrite color

Changelog

Future plans

- include new logo graphic (png with real transparency)
- new name: icon, small_icon, logo, about_picture : Pixel me like one of your French girls, DitherKing, pixeltron 3000
- resources in seperata files: icon, small_icon, logo, about_picture, config file with version
- adjust help and about text according to window size
- implement sanity check: accept only standard koala format files
- implement real undo for all functions
- implement hires drawing mode
- implement different pencil sizes

Any help and support in any form is highly appreciated. If you have a feature request, a bug report or if you want to offer help, please contact me:

 $http://csdb.dk/scener/?id{=}3623 \ or \ wolf@abyss{-connection.de}$

Changes in 1.0

initial release