Contents

Ditheridoo	3
Usage	}
File Format	}
Authors	}
Getting Started 4	1
Run the standalone executable	_
Note for Windows users	1
Note for MacOS users	1
Run the Python3 script directly	1
Prerequisites	1
Ditheridoo Cheatsheet 5	•
GUI controls	
mouse control	-
editing	
editor visuals	
left mouse-button color	
right mouse-button color	
color to replace (only when in draw mode 'select'):	
notes: draw-modes	
Changelog 8	
Future plans	
Changes in 1.0	5
License)
GNU General Public License)
Preamble)
TERMS AND CONDITIONS	L
0. Definitions	L
1. Source Code	2
2. Basic Permissions	2
3. Protecting Users' Legal Rights From Anti-Circumvention Law 13	3
4. Conveying Verbatim Copies	3
5. Conveying Modified Source Versions	3
6. Conveying Non-Source Forms	1
7. Additional Terms	;
8. Termination	7
9. Acceptance Not Required for Having Copies 18	3
10. Automatic Licensing of Downstream Recipients 18	3

11. Patents	18
12. No Surrender of Others' Freedom	20
13. Use with the GNU Affero General Public License	20
14. Revised Versions of this License	20
15. Disclaimer of Warranty	21
16. Limitation of Liability	21
17. Interpretation of Sections 15 and 16	21
How to Apply These Terms to Your New Programs	21
Python 3 license	23
The Python Imaging Library (PIL)	24
Tcl/Tk License Terms	24

Ditheridoo

Pixel By Pixel

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

Usage

For a list of quick keyboard shortcuts and other information see file cheatsheet.md or the full documentation in /docs.

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

- fieserWolF/Abyss-Connection code, graphics https://github.com/fieserWolF https://csdb.dk/scener/?id=3623
- The Mysterious Art/Abyss-Connection graphics https://csdb.dk/scener/?id=3501
- Pararaum/The 7th Division $example\ image$ https://csdb.dk/scener/?id=31223
- Mirage/Booze Design example image https://csdb.dk/scener/?id=739

Getting Started

Ditheridoo comes in two flavours:

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

Run the 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 for 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;)

Note for MacOS users

Your system might complain that the code is not signed by a certificated developer. Well, I am not, so I signed the program on my own.

"Ditheridoo" can't be opened because it is from an unidentified developer.

You need to right-click or Control-click the app and select "Open".

Run the Python3 script directly

Download *ditheridoo.py* and the whole *resource* - directory into the same folder on your computer.

Prerequisites

At least this is needed to run the script directly:

- python 3
- python tkinter module

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
```

Ditheridoo Cheatsheet

GUI controls

key	function
Ctrl+q	quit
Ctrl+o	open file
Ctrl+s	save file
Ctrl+p	preferences
Ctrl+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
Ctrl+n	normal pencil
Ctrl+b	checkerboard dither pencil
Ctrl+x	x-line dither pencil
Ctrl+d	y-line dither pencil
Ctrl+l	light dither pencil

editor visuals

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

left mouse-button color

key	function
0-9 a-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
Shift+ 0-9 a-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

- 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

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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

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Version 3, 29 June 2007

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