

# Contents

<b>PetPet</b>	<b>3</b>
<b>Why PetPet?</b>	<b>3</b>
<b>Author</b>	<b>3</b>
<b>Acknowledgements</b>	<b>3</b>
<b>Commandline options</b>	<b>4</b>
<b>Using PetPet</b>	<b>4</b>
drawing modes . . . . .	4
cut, copy and paste . . . . .	4
How to change the layout . . . . .	5
<b>Getting Started</b>	<b>5</b>
Install Python . . . . .	5
Prerequisites . . . . .	5
Install Python on Windows or Mac . . . . .	5
Install Python on Linux . . . . .	5
Download PetPet . . . . .	6
<b>File Formats</b>	<b>6</b>
PetPet JSON format . . . . .	6
binary format . . . . .	7
PETSCII-EDITOR binary format . . . . .	7
PetPet JSON configuration format . . . . .	7
<b>Changelog</b>	<b>8</b>
Future plans . . . . .	8
Changes in 1.01 . . . . .	8
Changes in 1.0 . . . . .	8
<b>GNU General Public License</b>	<b>9</b>
Preamble . . . . .	9
TERMS AND CONDITIONS . . . . .	10
0. Definitions . . . . .	10
1. Source Code . . . . .	11
2. Basic Permissions . . . . .	11
3. Protecting Users' Legal Rights From Anti-Circumvention Law	12
4. Conveying Verbatim Copies . . . . .	12
5. Conveying Modified Source Versions . . . . .	12
6. Conveying Non-Source Forms . . . . .	13
7. Additional Terms . . . . .	15
8. Termination . . . . .	16

9. Acceptance Not Required for Having Copies . . . . .	17
10. Automatic Licensing of Downstream Recipients . . . . .	17
11. Patents . . . . .	17
12. No Surrender of Others' Freedom . . . . .	19
13. Use with the GNU Affero General Public License . . . . .	19
14. Revised Versions of this License . . . . .	19
15. Disclaimer of Warranty . . . . .	20
16. Limitation of Liability . . . . .	20
17. Interpretation of Sections 15 and 16 . . . . .	20
How to Apply These Terms to Your New Programs . . . . .	20
<b>Python 3 license</b>	<b>22</b>
<b>Tcl/Tk License Terms</b>	<b>23</b>
<b>argparse</b>	<b>23</b>
History . . . . .	24

# PetPet

PetPet is a PETSCII editor for Commodore 64 computers. As it is written entirely in Python, it runs on any platform supported by Python (Windows, MacOS, Linux and others).

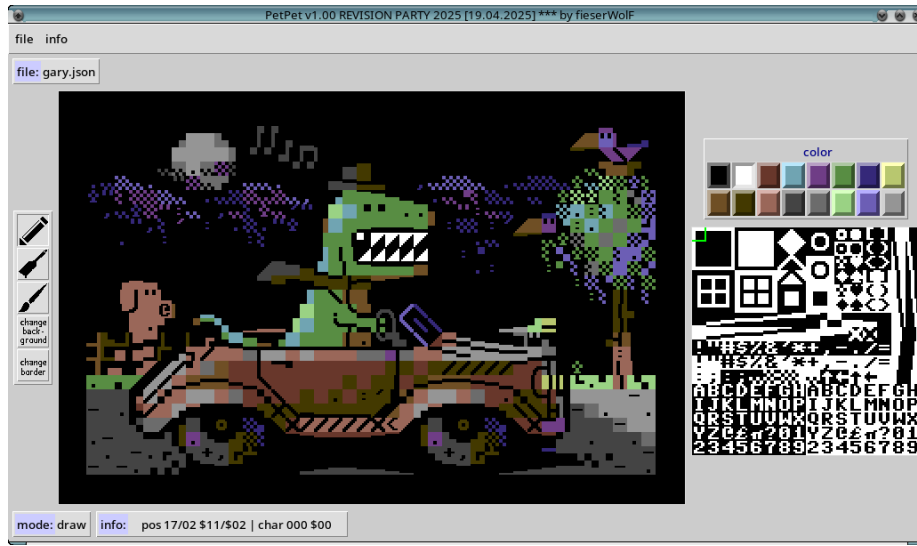


Figure 1: screenshot

## Why PetPet?

reason	description
script	no compiling, easy to modify import and export to your needs
portable	available on Linux, MacOS, Windows and any other system supported by Python3

## Author

- fieserWolf/Abyss-Connection - *initial work* - <https://github.com/fieserWolf> <https://csdb.dk/scener/?id=3623>

## Acknowledgements

- Logiker for testing and feature ideas

- Mermaid for the still wonderful PETSCII entitled “Gary”

## Commandline options

PetPet v1.00 REVISION PARTY 2025 [19.04.2025] \*\*\* by fieserWolf  
 usage: petpet.py [-h] [-p PETSCII\_FILENAME] [-c CONFIG\_FILENAME] [-f FONT\_FILENAME]

This is a PETSCII editor. Press F1 for help in the program.

options:

```
-h, --help            show this help message and exit
-p, --petscii_file PETSCII_FILENAME
                        petscii filename (.json)
-c, --config_file CONFIG_FILENAME
                        name of configuration file (.json)
-f, --font_file FONT_FILENAME
                        name of font (2048 bytes)
```

Example: ./petpet.py -p gfx.json -c config.json -f font.bin

## Using PetPet

### drawing modes

Use left mouse-button to draw. These are the drawing modes:

mode	description
pen	draw characters and colors
brush	draw only colors
pencil	draw only characters
writemode	type characters on your keyboard directly at mouse position
set bg	choose a color, then click into the picture to change the background color (\$d021)
set border	choose a color, then click into the picture to change the border color (\$d020)

### cut, copy and paste

Use right mouse-button to select an area. Then, use the usual hotkeys (STRG+X, STRG+C, STRG+V) to cut, copy and paste.

## How to change the layout

You can change the layout of the available characters in your own configuration-file. In this JSON file you can edit the “layout” array.

Example layouts:



Figure 2: layout1

## Getting Started

### Install Python

#### Prerequisites

Python3 is needed to run PetPet. Everything else needed should be provided in your Python3 installation by default:

- json
- tkinter
- argparse

#### Install Python on Windows or Mac

- Download Python from <https://www.python.org>.
- Install Python on your computer.

#### Install Python on Linux

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



Figure 3: layout2

```
apt update
apt install python3 python3-tk
```

Alternatively, you can use pip to install missing modules:

```
pip3 install tk argparse json
```

## Download PetPet

- Go to <https://github.com/fieserWolf/petpet>.
- Click on the green “Code” button and “Download ZIP”.
- Extract the downloaded ZIP-file to any folder.

## File Formats

The PETSCII image is natively stored as a json file. There is also a binary import and export.

### PetPet JSON format

object	key	type	value
info	program	string	“PetPet”
info	version	string	e.g. “1.0”
settings	background	number	color 0-15
settings	border	number	color 0-15
settings	font	string	filename of font

object	key	type	value
settings	grid	boolean	True or False
.	char	array of 1000 numbers	characters (0-255)
.	color	array of 1000 numbers	colors (0-15)

## binary format

offset	size in bytes	value
0	1000	characters
1000	1000	colors
1001	1	background color
1002	1	border color

## PETSCII-EDITOR binary format

offset	size in bytes	value
0	2	start address \$3000 (low, high)
2	1000	characters
1002	1	border color
1003	1	background color
1004	1	\$d018 value (\$14 or \$16)
1026	1000	colors

## PetPet JSON configuration format

object	key	type	value
info	program	string	“PetPet”
info	version	string	e.g. “1.0”
settings	background	number	color 0-15
settings	border	number	color 0-15
settings	font	string	filename of font
settings	grid	boolean	True or False
.	palette	array of 16*3 numbers	red, green, blue value for each C64 color (default: PEPTO colors) (0-255)
.	layout	array of 256 numbers	characters (0-255)

# Changelog

## Future plans

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](mailto:wolf@abyss-connection.de)

## Changes in 1.01

- improved selection box
- added write-mode
- gui improvements
- export to C64 executable
- improved documentation

## Changes in 1.0

released on REVISION PARTY 2025

- initial release # License

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For further questions, please contact me at <http://csdb.dk/scener/?id=3623> or [wolf@abyss-connection.de](mailto:wolf@abyss-connection.de)

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### **argparse**

<https://github.com/bewest/argparse> library used

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## History

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