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# 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).

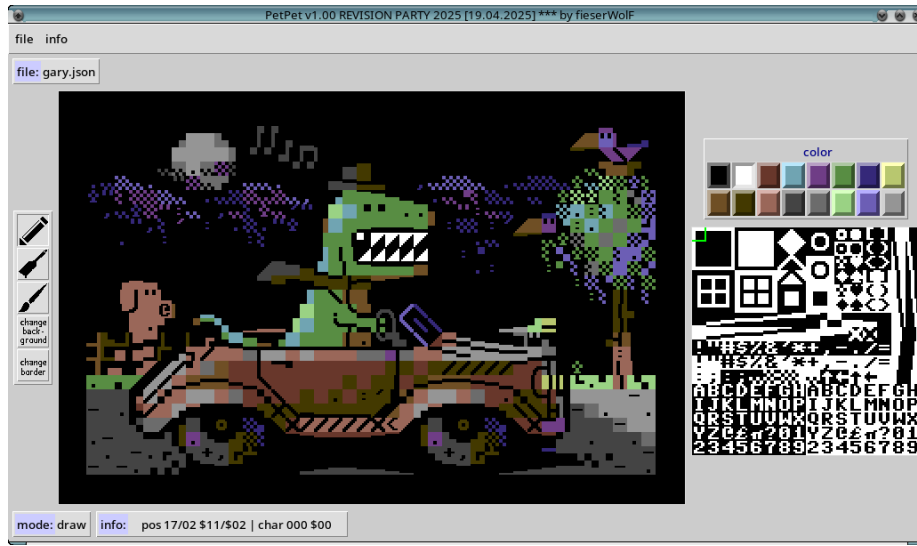


Figure 1: screenshot

## 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 1.02

(not released yet)

- improved undo
- character selection preview in selected color (thanks, Groepaz!)

## 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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*Version 3, 29 June 2007*

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### **argparse**

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

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## **History**

Before (and including) argparse 1.1, the argparse package was licensed under Apache License v2.0.

After argparse 1.1, all project files from the argparse project were deleted due to license compatibility issues between Apache License 2.0 and GNU GPL v2.

The project repository then had a clean start with some files taken from Python 2.7.1, so definitely all files are under Python License now.