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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).

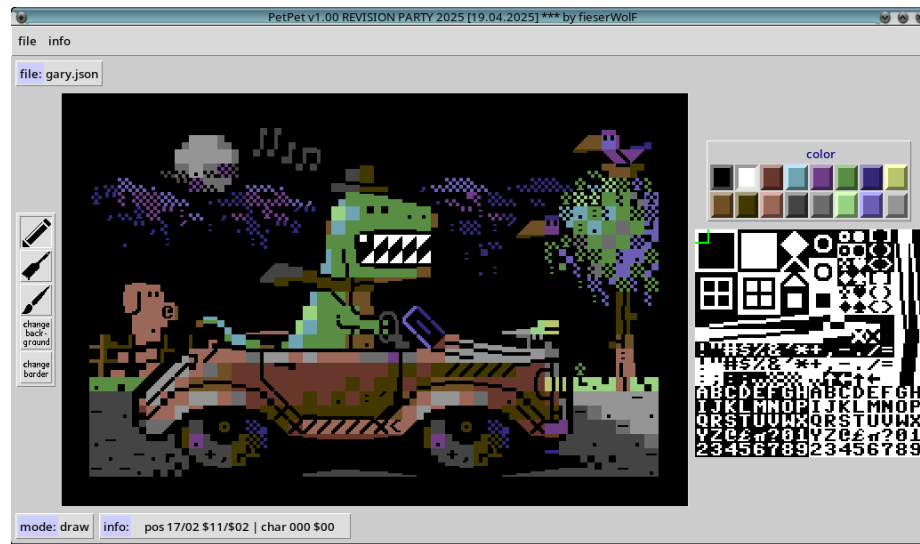


Figure 1: screenshot

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 |

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



Figure 3: layout2

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

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 |
| 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) |
| 1029 | 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 |

| object | key | type | value |
|--------|---------|-----------------------|---|
| . | 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) |

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”

Getting Started

Install Python

Prerequisites

At least this is needed to run the script directly:

- python 3
- python tkinter module
- python json module
- python “argparse” library

Install Python on Linux

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

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

Alternatively, you can use pip to install missing modules:

```
pip3 install tk argparse json
```

Install Python on Windows or Mac

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

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.

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

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

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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.

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