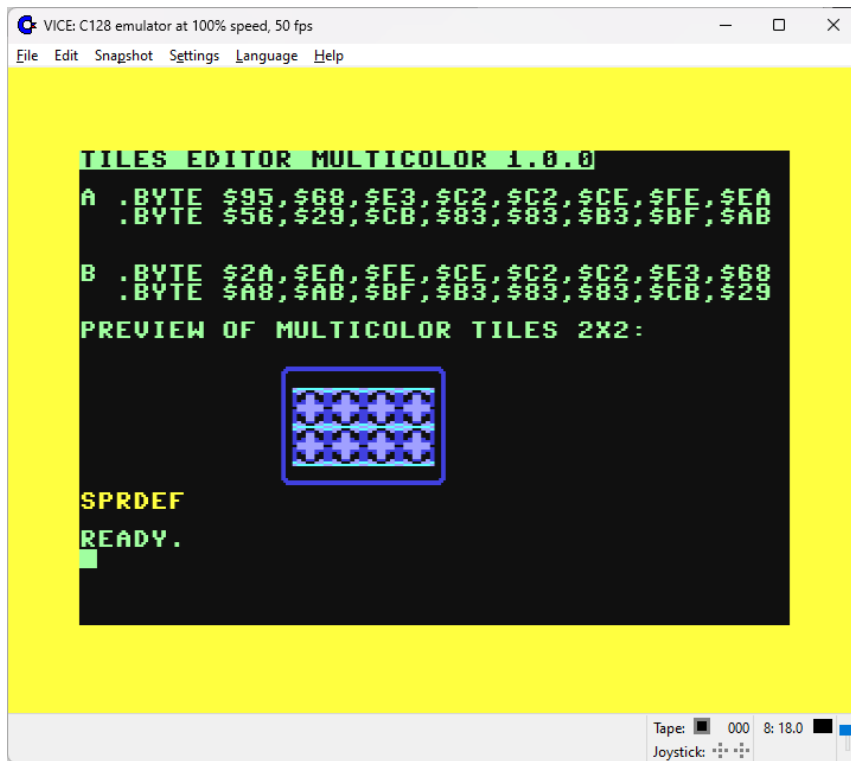


Tile Editor Multi Color Graphic Version 1.0.0

{updated to version 1.0.6A}, see page 3

With this little tool you can create tiles or any other graphic elements, with the size of 2x2 characters, using SPRDEF. SPRDEF, part of C128 OS, itself is for definition of Sprites, but you can use it literally for everything on top of that.



Preview is showing 1 Sprite {2x2 characters} and then 7 copies using other sprites.

This is done in assembly to speed things up. Copy progress is just way too slow in Basic.

This routine is located at \$1500 and loaded with blood"sprcopy.bl"

It will load just once and then do the copy each time you start the main program in Basic.

```
. 01500 a9 d8    lda #$d8
. 01502 a0 00    ldy #$00
. 01504 a2 00    ldx #$00
. 01506 bd 00 0e lda $0e00,x
. 01509 9d 40 0e sta $0e40,x
. 0150c 9d 80 0e sta $0e80,x
. 0150f 9d c0 0e sta $0ec0,x
. 01512 9d 00 0f sta $0f00,x
. 01515 9d 40 0f sta $0f40,x
. 01518 9d 80 0f sta $0f80,x
. 0151b 9d c0 0f sta $0fc0,x
. 0151e e8        inx
. 0151f e0 63    cpx #$63
. 01521 d0 e3    bne $1506
. 01523 60        rts
```

{Copies Sprite one {actual tile} over to Sprites 2 to 8}

{ $\$1502$ is here not really needed but I am using it in ML Monitor because you never know}

$\$1500$ is just adding a value to cell 1501 of $\#\$d8$ or dec 216. That is used to see if the routine was installed and make sure not to load it over and over again each time main program is started to see the results.

One tile is 2x2 characters, starting left corner, multicolor {activate with M}

Which means that 1 pixel horizontally is 2 pixels wide as you can see in this screenshot from SPRDEF below. Vertical resolution is the same, meaning 8 pixels.

All counted together:

You are working with 2x2 Multi-Color characters = 8 {pixels wide} x 16 {pixels high}

4 Colors

1. Background {transparent, $\$d021,x$ or dec 53281,x}
2. Color 2 – standard color
3. Color 3 - multicolor 1
4. Color 4 - multicolor 2

SPRCOLOR is setting multi-color values for all sprites {graphic elements in this case}, and SPRITE command is setting regular color of each sprite {graphic elements in this case} See Basic program for details.



You can use these graphic elements to create backgrounds in low-res mode of C128 (Graphic 3, x and Graphic 4, x, x)

An assembly routine to fill the first 12 lines of the screen {Graphic 4, split-screen gfx/text}, but it can be easily modified to do the same for the full screen multi-color mode {Graphic 3}, is on floppy.

It is preset to repeatedly draw 2 characters first line and 2 characters {tiles} the 2nd line.

However, with ease you can adapt it to draw 12 (or whatever you might need) individual lines.

And then, it also can be used for high resolution graphic since all you need to do is use Graphic 1 or Graphic 2 {see additional info} and not use Multi-Color. Everything else is the same.

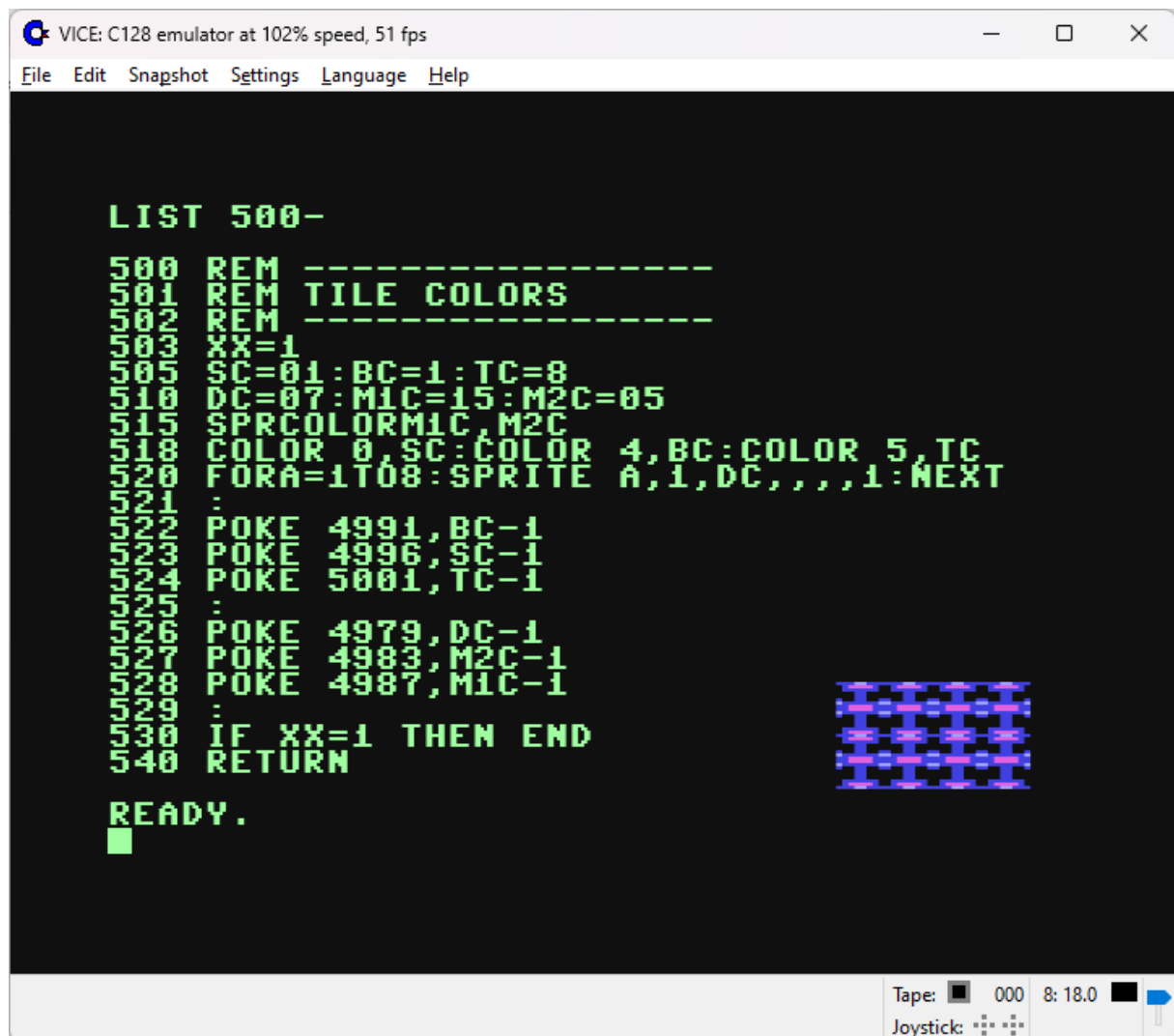
Data export is working for single color and multi-color.

Lived.ch, 13.03.2024

Tile Editor Multi Color Graphic Version 1.0.6A

You can now list lines 500-, change values in line 505 and 510, then type run 500.

That will help you too choose the colors you want for your tiles.



```
VICE: C128 emulator at 102% speed, 51 fps
File Edit Snapshot Settings Language Help

LIST 500-
500 REM -----
501 REM TILE COLORS
502 REM -----
503 XX=1
505 SC=01:BC=1:TC=8
510 DC=07:M1C=15:M2C=05
515 SPRCOLORM1C,M2C
518 COLOR 0,SC:COLOR 4,BC:COLOR 5,TC
520 FORA=1TO8:SPRITE A,1,DC,,1:NEXT
521 :
522 POKE 4991,BC-1
523 POKE 4996,SC-1
524 POKE 5001,TC-1
525 :
526 POKE 4979,DC-1
527 POKE 4983,M2C-1
528 POKE 4987,M1C-1
529 :
530 IF XX=1 THEN END
540 RETURN

READY.
█

Tape: 000 8: 18.0
Joystick: '

```

Preview in Graphic mode?

Just type sys 4864 and see the tiles in Graphic 4 mode { split-screen }

Poke 4991, color #border color {BC, Color 4,x}

poke 4996, color #screen color {SC, Color 0,x}

poke 5001, color #text color {TC, Color 5,x}

Poke 4979, color #84 {DC}

poke 4983, color #85 {M2C}

poke 4987, color #86 {M1C}

Note that Color 0,1 is equal to poke 53281,0 or lda #\$00, sta \$d0201!

Color start value is 1 and of poke and assembly is 0.

That's why it's poke sc-1, to match the values and have the same colors!

