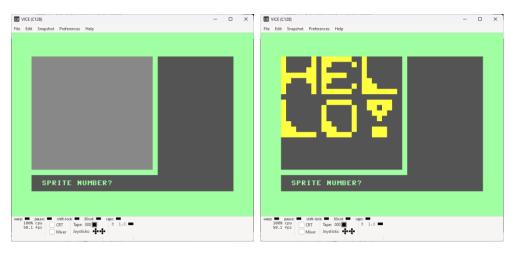
SPRDEF { Commodore 128 - Sprite Definition Tool }

And actually much more if you understand and use it properly!

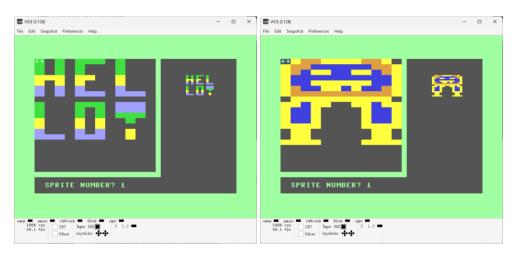


C128 BASIC command: sprcolor

Set colors for multi-color sprites, multi-color character and multi-color graphic elements as replacement for existing graphic symbols, meaning, be creative!

Hint: In command **sprcolor 6,13** when creating multi-color character or new multi-color graphic elements, "13", the 2nd color, is a color which shouldn't be used for colors numbers lower than 8 because that's the ColorMap { \$d800 - \$dbe7 } color when using Multi-Color-Character-Mode { Ida #\$d8, sta \$d016 }. And before that BASIC screen setup interrupt must be disabled { Ida #\$ff, sta \$d8 }.

Only upper 8 colors are allowed, however, they are actually representing the lower 8 colors in MCC Mode! Keep that in mind! That's the color under the key number 4.



A single character is made of 8x8 bits. Sprite is made of 24[x] X 21[y] bits.

Ergo, we can put 3 characters in 1st line and another 3 in 2nd line { Each in a 8x8 bits grid }. Then the next 6 characters from Sprite number two the same way. We need less than 6 sprites for a complete alphabet.

WHAT IS DOING WHAT in **SPR**ite **DEF**inition tool?

| 1-8 | Selects a sprite number at the SPRITE NUMBER? |
|------------------|--|
| | { at prompt only, meaning not during editing. You must first save your |
| | work with SHIFT+ENTER and then choose another sprite number! } |
| Α | Turns on and off automatic cursor movement. |
| CRSR keys | Moves cursor in work/area. |
| RETURN key | Moves cursor to start of next line. |
| RETURN key | Exits sprite designer mode at the SPRITE NUMBER? |
| | Prompt only. |
| HOME key | Moves cursor to top left corner of sprite work area. |
| CLR key | Erases entire grid. |
| 1-4 | Selects color source (enables/disables pixels). |
| CTRL key + 1 - 8 | Selects sprite foreground color (1-8). |
| C= key + 1 - 8 | Selects sprite foreground color (9-16). |
| STOP key | Cancels changes and returns to prompt. |
| SHIFT + RETURN | Saves sprite and returns to SPRITE NUMBER? prompt. |
| | { pressing here on ENTER only one more time exits SPRDEF } |
| Х | Expands sprite in X (horizontal) direction. |
| Y | Expands sprite in Y (vertical) direction. |
| Μ | Multi-color sprite mode. |
| C | Copies sprite data from one sprite to another. |
| | { press on a sprite number you want to edit, press on C and choose a |
| | sprite you want to copy from } |
| | |

In Multi-Color-Character-Mode sprite colors 1-4 are equal to:

| 1 deleting pixels | - A color visible under poke 53281,x { 0 – 15 }, same for all characters |
|-------------------|---|
| 2 multi-color 1 | - A color visible under poke 53282,x { 0 – 15 }, same for all characters |
| 3 multi-color 2 | - A color visible under poke 53283,x { 0 – 15 }, same for all characters |
| 4 multi-color 3 | that's actually then a color visible under mentioned Color Map, where you must use only color number 8 – 15 { which are colors from 0 – 7 }. Weird, but that's how it is! These colors are individual, meaning you can assign color 8 to character 1 and color 9 to character 2. If you use only color number 4 to draw a multi-color-character, then, of course, the whole character will change the color, otherwise only portion where 4 is presented within the character. Check again picture number 3. |