

# Character Sprites and Portraits Editing

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**Credits:** [FF6 T-Edition Sprite Tutorial](#) by tsushiy, part of the [FF6-T Translation](#) by Kain Stryder.

## 1. Introduction

The character sprites in FF6 can be modified in various ways depending on exactly what you want to do. Edits like *"I want to change Terra's casting pose"* or *"I want to create an alternate character sprite for Shadow"* are possible, but there are elements to consider regarding colors, graphic tiles and animations.

Spriting with FF6's limitations is harder than simply editing a sprite image, but not so far from it when you know and get used to the limitations and specifications. There are three utilities that are made for FF6 sprite work and at least one general GFX utility that can be used to edit sprites and portraits. They will not be covered in-depth here, as they are relatively straightforward when you know the basics (with the possible exception of YY-CHR, which will be covered in depth in a future tutorial).

You'll notice I mainly refer to the generic *FF6* name. In this context, *FF6* refers to SNES FF3us 1.0 or 1.1, but most of this tutorial can be applied to the GBA versions as well. However, not all differences will be covered or even mentioned. The utilities can only be used with FF3us unless mentioned otherwise. Offsets given are all Hi-ROM offsets.

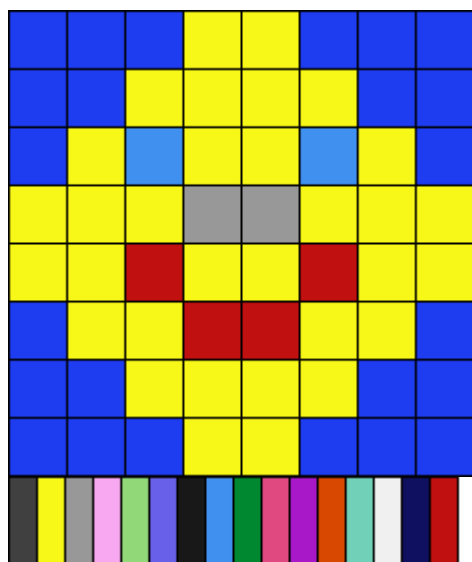
## 2. Understanding Sprites

**Skip this section if you don't want to read about the technical side of sprites. The rest of this tutorial will refer back to this section, but it will be restated in simpler terms. Don't worry too much if you don't understand this part**

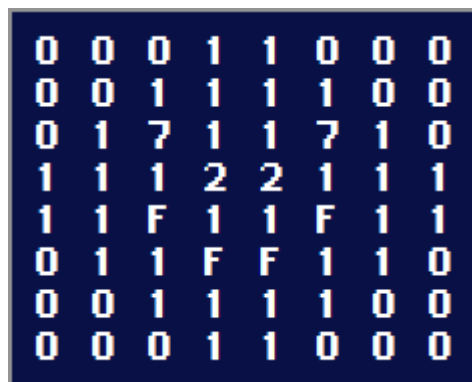
SNES sprites are a combination of two elements: graphic data (GFX) and a palette. The GFX can have a different maximum number of colors, which is called the graphic format. Most SNES graphics are 4bpp (4 bits per pixel), meaning they can have a maximum of 16 colors (transparency color + 15 colors). There are only 16 possible numbers that can be represented with 4 bits (0 to 15). Listed out in binary, these numbers are 0000, 0001, 0010, 0011, 0100, 0101, 0110, 0111, 1000, 1001, 1010, 1011, 1100, 1101, 1110 and 1111. However, there are game GFX that can be 3bpp (8 colors maximum), like some monsters, or 2bpp (4 colors maximum), like the fonts. In the case of 3bpp format, it is always converted by the code to 4bpp because the hardware cannot display it. The 3bpp format is a form of compression.



To picture a GFX, imagine (in the case of a 8×8 4bpp graphic) an 8×8 array or table where each pixel is represented by a number from 0 to 15. In a “normal” 4bpp format, one byte (8 bits) would hold 2 pixels represented by 4 bits each, so 2 pixels would fit in one byte. Instead of an array of 64 bytes (which you'd get if your GFX format only stored one pixel in each byte), your GFX would be stored in 32 bytes since 2 pixels fit in one byte. For example, the byte 00000010 is a combination of 0000 (0) and 0010 (2). Therefore, this byte contains a pixel of color 0 and a pixel of color 2. This is a logical way to store images, and Microsoft's Bitmap format works this way as well. Let's consider the following tile with the following palette:



The corresponding array of color IDs is the same size and represents the same image, except that each color is replaced by its palette ID (0x00 to 0x0F):



You would logically expect that if we represented these values as bits instead of integer or hexadecimal values, we would obtain the following set of bytes. In this image, each byte represents

two side-by-side pixels.

|      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|
| 0000 | 0000 | 0000 | 0001 | 0001 | 0000 | 0000 | 0000 |
| 0000 | 0000 | 0001 | 0001 | 0001 | 0001 | 0000 | 0000 |
| 0000 | 0001 | 0111 | 0001 | 0001 | 0111 | 0001 | 0000 |
| 0001 | 0001 | 0001 | 0010 | 0010 | 0001 | 0001 | 0001 |
| 0001 | 0001 | 1111 | 0001 | 0001 | 1111 | 0001 | 0001 |
| 0000 | 0001 | 0001 | 1111 | 1111 | 0001 | 0001 | 0000 |
| 0000 | 0000 | 0001 | 0001 | 0001 | 0001 | 0000 | 0000 |
| 0000 | 0000 | 0000 | 0001 | 0001 | 0000 | 0000 | 0000 |

However, **bad news!** The SNES 4bpp format does not work this way. If we take our 64 pixel large (8×8) happy face tile, we get the following 32 bytes as seen in a Hex editor. Note that the 32 bytes have been arranged into two rows of 16 bytes each for clarity (you'll see why in a moment).

|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 18 | 00 | 3C | 00 | 7E | 24 | E7 | 18 | FF | 24 | 7E | 18 | 3C | 00 | 18 | 00 |
| 00 | 00 | 00 | 00 | 24 | 00 | 00 | 00 | 24 | 24 | 18 | 18 | 00 | 00 | 00 | 00 |

Each row of pixels is represented by 4 bytes as with any other 4bpp format, except that we have to read the bytes in bitplane to get the color IDs. To read the bytes in bitplane, we first divide the two rows of data into blocks of four bytes as shown. Each pixel row is represented by a single square in the following image. For example, pixel row 0 is made up of the bytes 18 00 00 00.

|                |                |                |                |                |                |                |                |
|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| 18 00<br>00 00 | 3C 00<br>00 00 | 7E 24<br>24 00 | E7 18<br>00 00 | FF 24<br>24 24 | 7E 18<br>18 18 | 3C 00<br>00 00 | 18 00<br>00 00 |
|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|

Bitplanes are read in the order of b1, b2, b3, b4. That is, top-left, top-right, bottom-left, bottom-right. We will take row 2 to continue the example.

|    |    |    |    |
|----|----|----|----|
| b1 | b2 | 7E | 24 |
| b3 | b4 | 24 | 00 |

First, you must look at each byte in its binary representation. When the four bytes are aligned on top of each other in the following manner, each column represents a pixel. Here the example is symmetric, but you would usually read from right to left. For the first pixel of this row, the bits in the column are 0, 0, 0, 0, as shown in the diagram. Your color ID is therefore 0000, (i.e., palette ID 0).

|               |               |
|---------------|---------------|
| 7E = 01111110 | 7E = 01111110 |
| 24 = 00100100 | 24 = 00100100 |
| 24 = 00100100 | 24 = 00100100 |
| 00 = 00000000 | 00 = 00000000 |

Since there are 8 bits in 1 byte (and therefore eight columns), and there are eight pixels in each row, the 8×8 tile format begins to make sense now. Here are the color values of row 2. As you can see, it

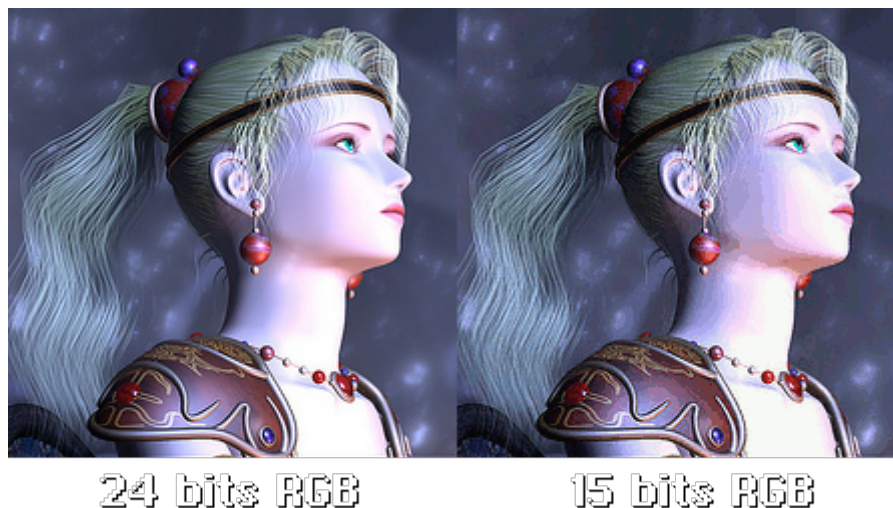
corresponds to what is in our previous color array of the tile.

|          |                 |
|----------|-----------------|
| 0000 = 0 | 0 0 0 1 1 0 0 0 |
| 1000 = 1 | 0 0 1 1 1 1 0 0 |
| 1110 = 7 | 0 1 7 1 1 7 1 0 |
| 1000 = 1 | 1 1 1 2 2 1 1 1 |
| 1000 = 1 | 1 1 F 1 1 F 1 1 |
| 1110 = 7 | 0 1 1 F F 1 1 0 |
| 1000 = 1 | 0 0 1 1 1 1 0 0 |
| 0000 = 0 | 0 0 0 1 1 0 0 0 |

The SNES 4bpp format is not made to be human-readable, and it was made this way because of the hardware. Don't worry if you struggle with this; this is the detailed technical side and mastering it is not required at all to sprite. Same goes for the coming palette description.

Palettes are a sequence of color data that is “applied” to the GFX. Color 2 of the palette is “applied” to all the pixels of color 2 of the GFX. This method allows us to reuse GFX with different palettes. Palettes are usually 2, 4, 8, 16 or 256 colors (Mode 7), but there is no data in the palette that indicates its length. It is specified in the game code how many palette bytes and GFX bytes to read to correctly display a certain graphic on-screen.

A SNES Color is in 15 bit RGB format. In short, this means each color can be represented by 2 bytes (16 bits). Each channel value (R, G or B) is 5 bits long, and the first bit is always 0. Specifically, the format is **0BBBBBGG GGGRRRRR**. A 5 bit number can be 32 possible values, from 0-31, so there can be 32 different intensities of each of the three primary colors. Considering every combination of red, blue, and green that a single pixel can have, there are 32 768 possible colors on the SNES (32 x 32 x 32). More modern color formats like 24 bit RGB and above (1 byte per channel) have a 0-255 range for each color channel. Translated to 24 bit RGB, a SNES color will always end in 0 or 8. Changing the value of a color by 1 on a 1-31 scale is the same as changing it by 8 on a 0-255 scale. If we use the hex color notation, a valid SNES color expressed in 24 bit RGB could be 18,20,18 (sort of black), but the 24 bit RGB hex color 18,19,18 has no SNES equivalent (0x19 cannot be set on a 0-31 scale because 0x19 is not divisible by 0x08). To be as close as possible, this color should be set as 18,18,18, which is equivalent to 3,3,3 in SNES palette editing programs. Most (if not all) spriting utilities do color *rounding* for you in order to take free edits in Gimp and such into account, so you don't need to worry about the color *rounding* at all.



So we know a SNES color fits into 2 bytes; therefore, a 16 color palette takes up 32 bytes of space in the ROM. This is valid for all SNES games. As quickly mentioned previously, transparency is a color because there is no alpha channel in the 15 bit RGB format. The game determines which color is transparent. In the case of FF6, it is always color 0. So this color in the palette will have an RGB value, but it will be *masked* by the game to show transparency instead.

Here is a five step example to show how to convert a color to B,G,R format. We will take our palette from the preceding 4bpp example:



|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 08 | 21 | FF | 0F | 73 | 4E | BF | 7A | 72 | 3F | 8D | 75 | 63 | 0C | 48 | 7A |
| 20 | 1A | 3C | 41 | 75 | 64 | 3B | 01 | 4E | 5F | DE | 7B | 42 | 30 | 58 | 08 |

Let's look at the first color: the medium-dark grey. The steps are:

- 1) Convert the 2 byte value to binary.
- 2) Separate the binary values into three sets of five bits. The first bit is not used.
- 3) Convert each of the three color values to a decimal value between 0 and 31.

**2108 = 00100001 00001000**

**0010000100001000 → X010000100001000**

**X010000100001000 = X 01000 01000 01000**

**X 01000 01000 01000 = 8,8,8 (B,G,R)**

Here are the results for the first 8 colors of our palette in B,G,R format:

|      |   |       |       |       |   |          |
|------|---|-------|-------|-------|---|----------|
| 2108 | = | 01000 | 01000 | 01000 | = | 08,08,08 |
| 0FFF | = | 00011 | 11111 | 11111 | = | 31,31,03 |
| 4E73 | = | 10011 | 10011 | 10011 | = | 19,19,19 |
| 7ABF | = | 11110 | 10101 | 11111 | = | 31,21,30 |
| 3F72 | = | 01111 | 11011 | 10010 | = | 18,27,15 |
| 758D | = | 11101 | 01100 | 01101 | = | 13,12,29 |
| 0C63 | = | 00011 | 00011 | 00011 | = | 03,03,03 |
| 7A48 | = | 11110 | 10010 | 01000 | = | 08,18,30 |

This basically covers the technical side of colors, palettes and GFX. Little of what was explained is mandatory to accomplish everyday spriting tasks like editing a sprite in FF3usME, but I think it is good to understand how these elements work on the byte level. If you are using a utility that lets you import images (.png, .bmp, .gif, .jpg, etc.), you should work in an image editor such as Gimp in the "indexed 16 for 4bpp graphic" format. *Indexed* means that the image data is an array of color IDs as with SNES GFX, and *16* is the maximum number of colors. Depending of what you use, the all purpose image editor may have *Indexed* format only, so you'll need to set the maximum number of colors yourself. This is always a safer approach than editing an image in 32bpp ARGB format and adding too many colors or even transparency.

### 3. Editing Tiles (YY-CHR)

If you wish to do simple tile edits, YY-CHR can be a solution. There is a [.NET version](#) and a [C++ version](#). I personally go with the C++ one; it is older, but it has more features that have not yet been ported to the .NET version. The image shown here is from the C++ version.

Character sprites are located at \$D50000 (\$D50200 with header). You can either [enter that address](#) (as \$150000 or \$150200 if header present) or scroll until you see the GFX tiles. Note that you need to [set the graphic format to 4bpp SNES](#).

If you want the right colors (i.e., the right palette), you can import the [FF6 NPC Palettes](#) in YY-CHR by going to *Palette → Open Palette (\*.pal)*. This make editing a lot easier, but it is not mandatory. The palette shown in YY-CHR is not the one used by the game, and the GFX is not modified by this step since it uses a palette (see [section 2](#)).

There are several different tile arrangements available. Since we are dealing with 16×24 sprites for characters, a more convenient way to view the tiles would be [16x24](#). If you had a 32×32 NPC sprite to edit, choosing 32×32 for the tile arrangement would make it easier to edit the tiles. As previously stated, other utilities are more useful than YY-CHR. [FF3usME](#) and [FF3SpriteEd](#) both have a tile editor (see [here](#) and [here](#)). [FF3SE](#) only allows sprite sheet editing, but it follows the same tile logic when saving the sprite to the ROM.





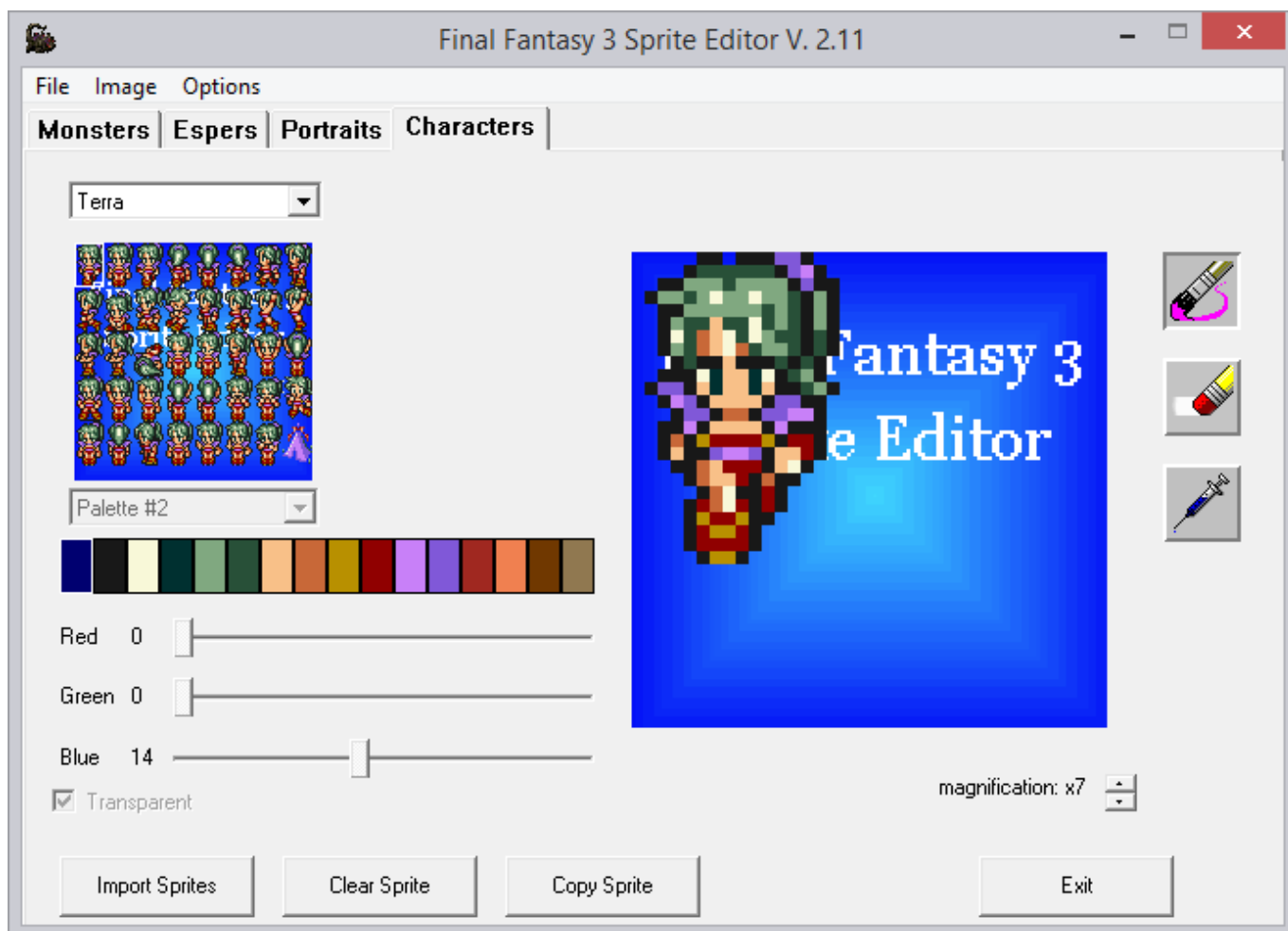
To summarize this section, YY-CHR can help with basic tasks, but for complex sprite editing, FF3usME, FF3SpriteEd, and FF3SE are more convivial and allow a faster working pace.

## 4. Editing Sprites

This section will cover the FF6 spriting utilities' features and ways to edit sprites using FF3usME, FF3SpriteEd, or FF3SE.

### A. FF3SE (no longer developed)

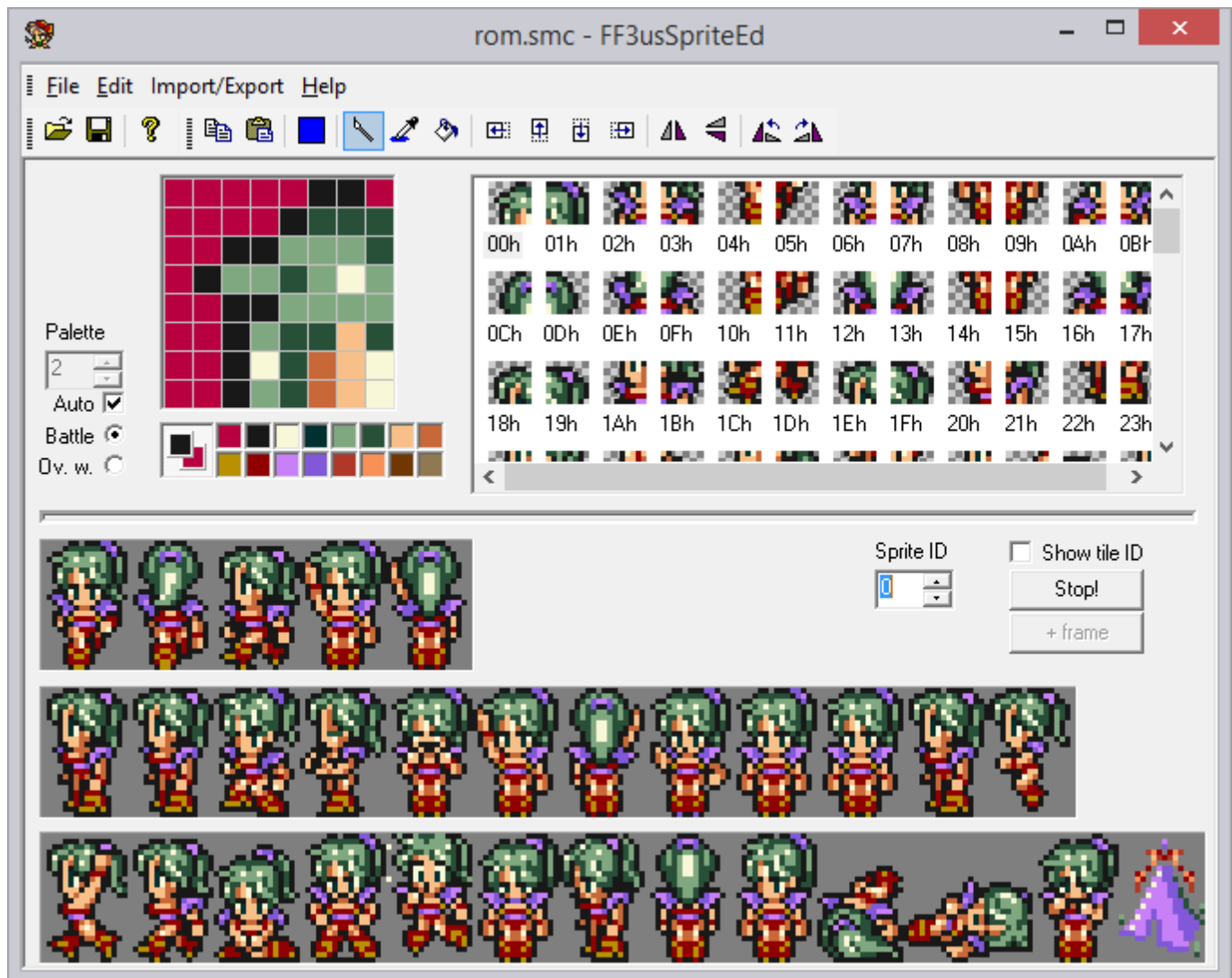
First up is [FF3SE](#), which has no tile editor, but allows sprite sheet editing. Its features are more basic than FF3usME or FF3SpriteEd. This can be more difficult to work with if you are a novice and don't know which tiles repeat. Also, there is no way to animate the sprite to see if your work is correct or should be adjusted. Note that there is a "trick" to importing a sprite with the correct palette order every time. You simply have to draw your palette on first pixel row as shown [here](#). This "trick" can be used in FF3usME, FF3SpriteEd, or any editor that determines the palette by scanning the image from the *top-left to the bottom-right*.



## B. FF3SpriteEd (merged with FF3usME)

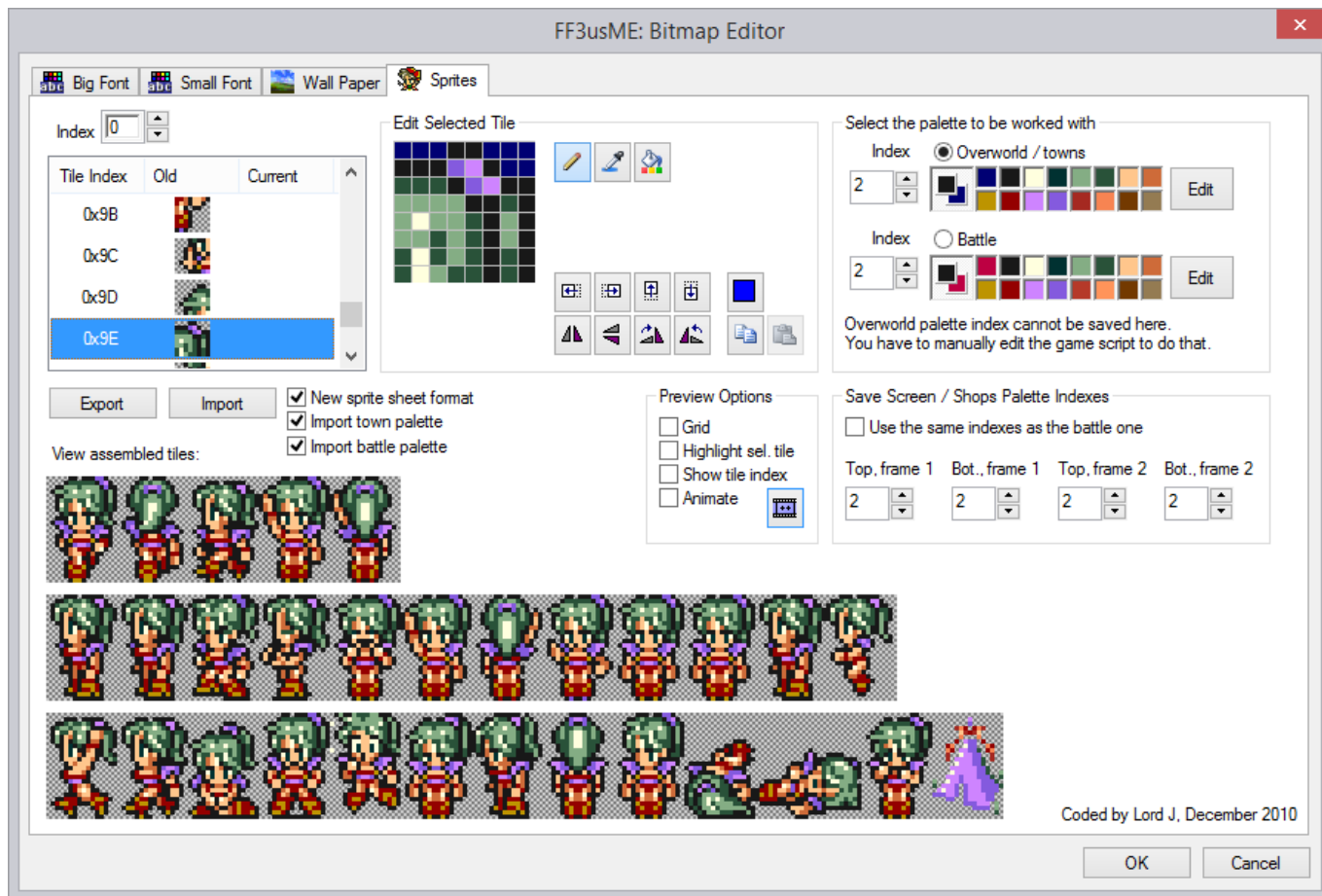
Second comes [FF3SpriteEd](#), the predecessor of the character sprite editor in FF3usME. They are somewhat similar to each other. Without detailing everything, one of the major differences is that the binary import / export for the tileset can be done separately from the import / export for the palette (.pal). The advantage of importing in this manner is that you can apply a new palette to the tileset in a single click. However, neither the tileset nor the palette can be imported by other programs, making FF3usME's PNG import / export more convenient.



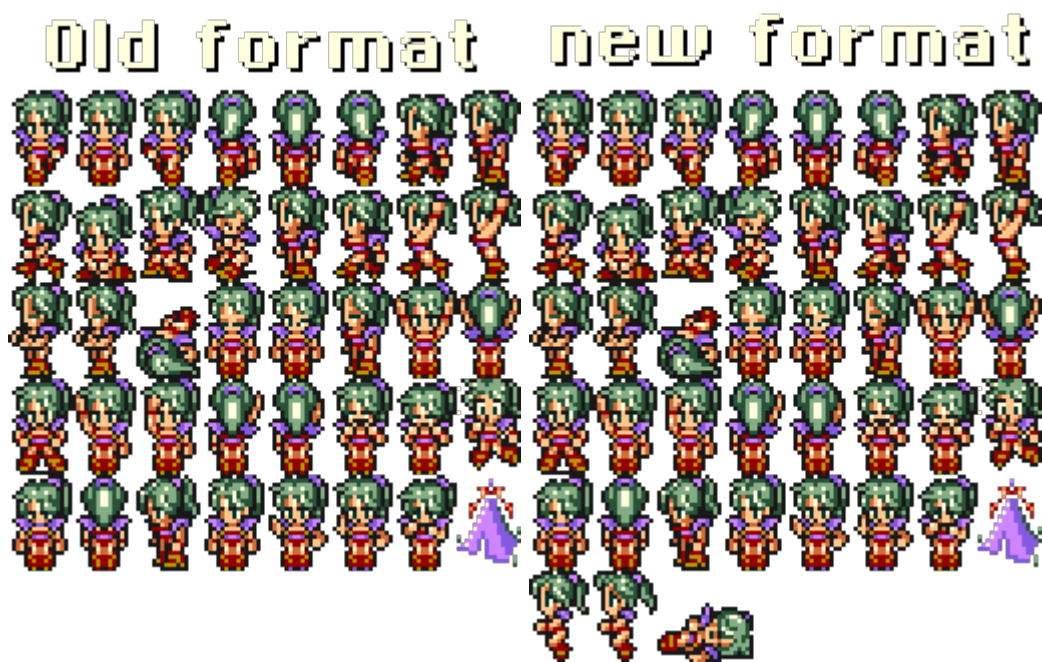


### C. FF3usME (still being developed)

Finally, there is [FF3usME](#), which is now at version 6.80. The character sprite editor is a bit more advanced than FF3SpriteEd, and it is able to import / export both PNG files and files produced by FF3SE, making it the editor of choice. All editors are pretty straightforward, so little explanation is required.



To conclude this section, I'll talk about the spritesheet formats. FF3SE exports the sprite sheet in the *old* format, meaning they have no "riding" or "dead" (the sideways dead pose used in battle) poses included. This is also the only format it can import. FF3usME uses a similar (but newer) format that includes the dead and riding poses. Lord J's editor can import / export in either the *old* or *new* format, making FF3usME more versatile than FF3SE or FF3SpriteEd.



## 5. Sprite Animations and Poses

Each character sprite in [FF3usME](#) consists of 17 sprite animations and 13 static poses, for a total of 46 static poses (~92 if we count flipped poses) and a maximum of 181 different tiles making those poses. Each pose consists of 6 tiles. Many tiles are used in more than one pose, and modifying the tile will affect every pose that uses it. The animations shown in FF3usME are intended to give the spriter a feel for how the different poses look when the character is in motion. For example, several animations show what it looks like when the character is walking. Though there are 17 specific animations shown in FF3usME, the different poses can be strung together in any order in FF6's cutscenes, allowing a much larger number of animations in the game itself. However, the pose and tile counts above are exact.



[FF3usME](#) has 2 kind of animation: *three pose animations* following a 1-2-1-3 pattern and *two pose animations* following a 1-2 pattern. There are 5 *three pose animations* and 12 *two pose animations*. A [FF3usME animation table](#) and [pose table](#) with corresponding tile IDs (overlaid on images) are available:

[FF3usME animations table](#)

[FF3usME static poses table](#)

For a short description of each pose ID, refer to the [movement action codes](#) used in the action queues of characters in the event code.

The possible “animations” and poses are used mainly in the event code (as well as the battle module and the world map module). For events, you can call a pose in the action queue of a character or NPC (event commands \$00-\$35). Walking combinations have their own [set of movement actions \(\\$80-\\$AB\)](#). You can call a single pose in an event queue with [graphical action \\$00-\\$7F](#). Actions \$00-\$3F can be viewed in [FF3usME](#) for the most part, and actions \$40-\$7F are the horizontally flipped versions of \$00-\$3F.

There is an “unused” pose on the spritesheet that can be used. Terra is the only one who has a valid sprite for it. It's the last pose before the tent in [FF3usME](#), usually filled with the original FF6 spriter signature.

If we come back to spriting, is it important to make sure all the edited poses work correctly with the sprite animations shown in [FF3usME](#). Editing a tile can sometime have an effect on a pose we did not expect at first glance. Get used to the tile sharing of the sprite poses, it works this way for all sprites of the same size.

## 6. Editing Palettes

One of the biggest puzzles for those who have sprites with different palettes is making sure everything fits together. Why? Because sprite share palettes! For example, if you change Celes' hair color to blue, Sabin, Edgar, and Leo will all have blue hair.



Also, there are two 16 color palettes assigned to each character: one palette for battle and one for the maps/overworld. Most of the time they match, but there are exceptions. There are 8 battle palettes (located at \$ED6300) and 32 overworld palettes (located at \$E68000). Here are the first 7 of each type:



They are each assigned in a different way. The battle palette is assigned via a table of 26 one byte entries for the palette ID. The first 14 entries are the main cast in regular order. This table is located at \$C2CE2B. As for the overworld palette, it is assigned by event, usually when recruiting the character. *Map characters* are reused; for example, character \$07 is a moogle and a ghost before finally becoming Strago. This means that character \$07 has their palette changed several times over the course of the game.

This [palette and sprite changes document](#) made by runelancer is quite handy to find which event code need to be changed when you want to change a character's palette. Also check out [Lockirby's Event Document](#) for the use of command \$43 that changes the palette. For example, if you want to set Locke to palette 05, the command would be 43 01 05 because Locke is actor 01.

While there are many overworld palettes, all regular characters and *character NPCs* use a palette ID between 0 and 5, with the exception of Esper Terra who uses overworld palette 8 and battle palette 6. The reason for you being unable to use 6 and 7 is due to those palettes not being compatible with the save/shop/character selection screens. For NPCs, the palette ID is located in the NPC data. It's something that can be edited easily with [FF6LE](#). Here are two tables of the palettes used by the main sprites and main NPCs. Some NPCs can be used with different palettes (such as most generic NPCs), but they only appear in the table with their default palette.

Overworld palette

| Palette ID | Sprites using the palette   |
|------------|---|
| 00         | Edgar, Sabin, Celes, Imp, Leo, Ghost, generic elder, generic man, Maria, Rachel |

|    |   |
|----|---|
| 01 | Locke, Imperial, Merchant, scholar, Returner, Clyde, generic woman, generic boy, generic girl, Narshe guard, sailor |
| 02 | Terra, waitress, Figaro sargent, Figaro guard, Katarin, Daryl   |
| 03 | Strago, Relm, Gau, Gogo, Banon, Kefka, Gestahl, Gau (suit), Cid, generic thief                                      |
| 04 | Cyan, Shadow, Setzer, Interceptor, Draco, Arvis, Matron, pigeon, maestro, Maduin, Vargas                            |
| 05 | Mog, Umaro, Ultros, Chupon  |
| 08 | Esper Terra   |

**Battle Palette**

|            |   |
|------------|---|
| Palette ID | Sprites using the palette   |
| 00         | Edgar, Sabin, Celes, Imp, Leo, Ghost, generic elder, generic man, Interceptor |
| 01         | Locke, Imperial Soldier, Merchant   |
| 02         | Terra   |
| 03         | Strago, Relm, Gau, Gogo, Banon, Kefka, Gestahl                                |
| 04         | Cyan, Shadow, Setzer  |
| 05         | Mog, Umaro  |
| 06         | Esper Terra   |

Finally, when you edit your sprite and colors, there is an order to respect. One of the reasons is explained in next section along with the reason why you can only use the first 12 colors for a battle sprite:

|          |                          |
|----------|--------------------------|
| Color ID | Description              |
| 00       | transparent              |
| 01       | outline (black)          |
| 02       | eyes                     |
| 03       | pupils                   |
| 04       | hair (lighter shade)     |
| 05       | hair (darker shade)      |
| 06       | skin (lighter tone)      |
| 07       | skin (darker tone)       |
| 08       | outfit 1 (lighter shade) |
| 09       | outfit 1 (darker shade)  |
| 10       | outfit 2 (lighter shade) |
| 11       | outfit 2 (darker shade)  |

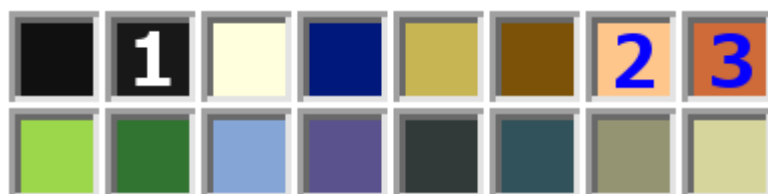
**7. Other Specifications**

**A) You can set different sprites for battles and the overworld**

While the vanilla game has the same sprites for battle and NPCs or overworld PCs, you could set a different sprite for battle. The game gets a sprite GFX index for each battle sprite in a pointer table at \$C2CE43. Each entry is 3 bytes, and there are 24 entries. As for overworld NPCs, the GFX index is in the NPC data (like the palette ID), which can be edited with FF6LE. Finally, playable characters get their GFX set with an event command in the same way the palette is assigned, except that the event command \$37 is used.

## B) Color changes in battle

One thing you must be made aware of and keep in mind is that battle sprites have color changes during battle. To be more specific, the outer line of characters glows from effects such as Haste, Protect, etc, and their skin tone changes due to Poison, Zombie, etc. These change the colors of the specified number on the palette:



#1 is used for the outline of magical effects around the character, and #2 and #3 are used for skin color changes like Poison, Zombie, etc. Please note that if you use the skin color for clothing or draw black outlines around your eyes, this will make them change color with the above. Personally, I don't think it's super noticeable, so please don't worry too much.

## C) The four unusable colors

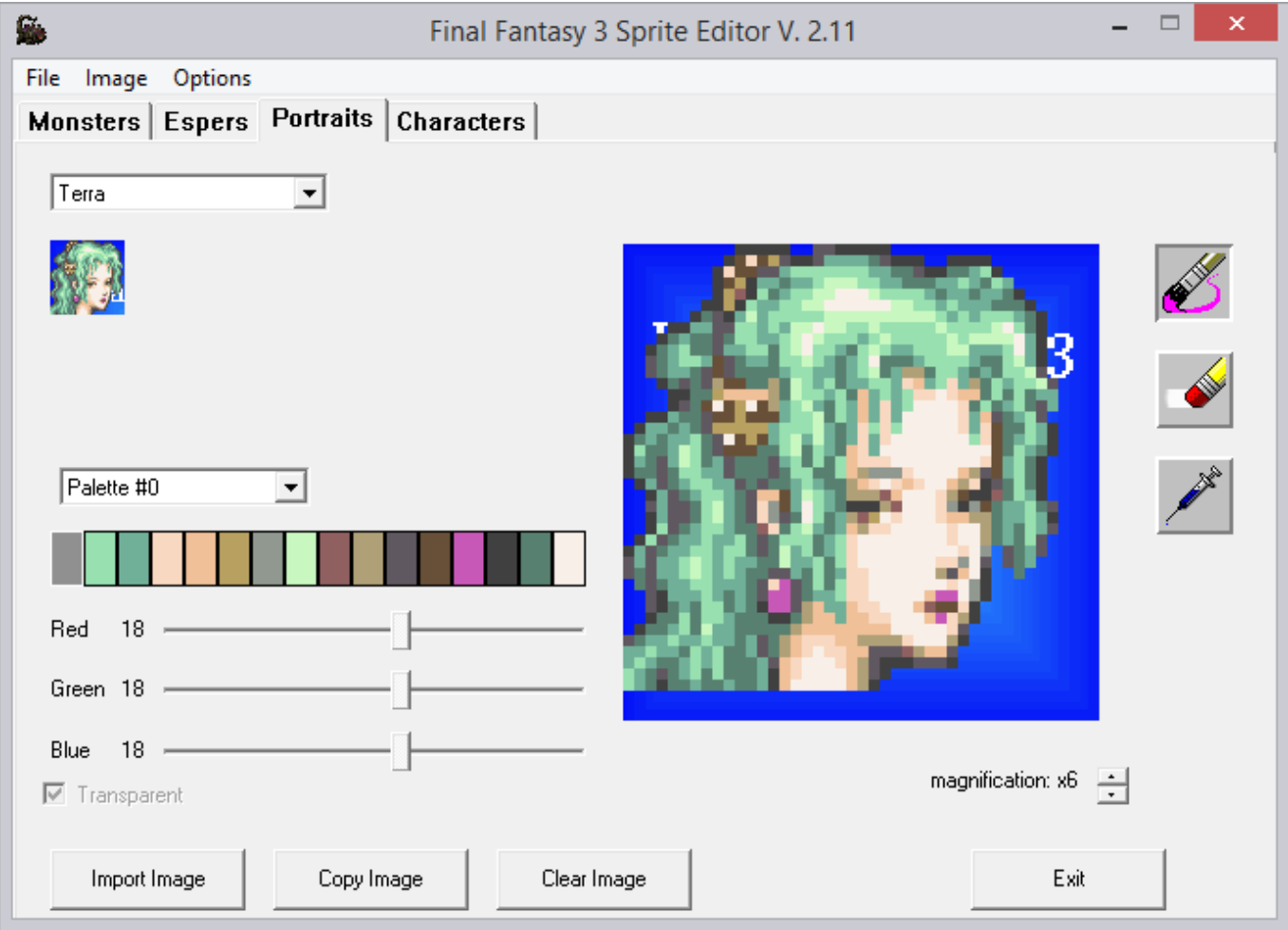
The total number of colors usable for battle sprites actually isn't 16, but 12. Out of the 16 colors, 4 are masked by the system colors used in battle (finger cursor, damage font color, etc). Those last 4 colors can be used for NPCs without worrying since they do not appear in battle. There is, however, an [Expanded palette Hack](#) that can make use of those colors and allow you to edit them. The hack does not expand the sprite to have 16 colors, but it lets you choose which of the 12 you want to assign to the sprite.

However, using this hack will make the last four colors of a character using palette four or five display incorrectly on the save/store/character select screens. This is because the last 4 colors of palette 4 are temporarily overwritten by the color of the status ailment on the menu screen, and the last 4 colors of palette 5 are used for the color of the cursor.

## 8. Portraits

Portraits are 40×40, with a palette of 16 colors. Each portrait has its own palette. The easiest way to edit portraits and import custom ones is with FF3SE. Note that the ["trick"](#) to correctly import the palette of the portrait by drawing your palette on the first pixel row also works here. It is not mandatory, but it is a useful workaround if you get a bad import.





If you ever directly edit the ROM with a program like YY-CHR, the tile order is as follows:

|    |    |    |    |    |
|----|----|----|----|----|
| 00 | 01 | 02 | 03 | 08 |
| 16 | 17 | 18 | 19 | 09 |
| 04 | 05 | 06 | 07 | 10 |
| 20 | 21 | 22 | 23 | 11 |
| 13 | 14 | 15 | 24 | 12 |

## 9. Conclusion

Becoming a good FF6 spriter requires you to take a lot in consideration. However, many started from nothing and became good with time. It's more a matter of practice and knowing the basics, specifications, and exceptions before starting for real. This is what I tried to do with this tutorial. I might revise it a bit, but I covered most of the content I wanted to cover.

If you want to read more on the artistic part of Pixel Art, there is a bunch of external tutorial links available on this [wiki page](#). Happy spriting!

Last update: 2019/02/12  
11:01

ff3:ff3us:tutorial:sprites <https://www.ff6hacking.com/wiki/doku.php?id=ff3:ff3us:tutorial:sprites&rev=1504317564>

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## Tools used

[FF3usME](#)

[FF3SE](#)

[FF3SpriteEd](#)

[YY-CHR \(C++\)](#)

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