sprites4curses 0.1.3

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Documentation

These folders contain documentation on the project, generated using Doxygen's latex output to pdf.

2 Documentation

palette.gpl

If your image does not have a palette of 256 colors, you can convert it to 8-bit indexed color mode with a custom palette in GIMP.

```
+ Open the image in GIMP.
+ Select Image > Mode > Indexed.

+ In the Indexed Color Conversion dialog, choose "Generate optimum palette" as the conversion type.
+ Under the "Maximum number of colors" option, enter "256".

+ Check the "Use custom palette" checkbox.
+ Click the "Edit palette" button.
+ In the Palette Editor dialog, click the "Import Palette" button.
+ Select "From file" and choose the palette file (palette.gpl).
+ Click "OK" to close the Palette Editor dialog.
```

+ Click "Convert" in the Indexed Color Conversion dialog to convert the image to indexed color mode with the c + Export the image in PNG format. 4 palette.gpl

sprites4curses

A library of scripts to deal with sprites in ncurses.

3.1 sprites.py

This is a python script that converts PNG's to a char representation. The output text should be a valid C declaration for a 3D char array.

It expects as arguments a directory with the images to convert. There's a dependency on Pillow to do the image conversion.

3.2 sheet_converter.py

This is a python script that converts a single PNG spritesheet to a char representation. The output text should be a valid C declaration for a 3D char array.

It expects as arguments the spritesheet file name, the sprite width, the sprite height, the thickness of the separator between sprites, and the start coordinate or the first sprite's left corner. There's a dependency on Pillow to do the image conversion.

3.3 png_resize.py

This is a python script that resizess PNG's to a desired size.

It expects as arguments a directory with the images to resize, and two ints for width and height of the resulting PNGs. There's a dependency on Pillow to do the image conversion.

3.4 palette.gpl

This is a GIMP palette file, useful for exporting PNG with the correct color alignment. Info on how to use it are in the palette-Readme.md file.

6 sprites4curses

3.5 animate.c and animate.h

This is a C program to display an animation read from a formatted text file. They offer the function animate_file() useful to animate in a initialised WINDOW. The format expected is compatible with sprites.py specs.

3.6 demo.c

This is a demo program directly using the demo() function from the library.

3.7 Usage

To use the python scripts you need to install Pillow:

- 3.7.0.0.1 <tt>pip install Pillow</tt>
 - To run the sprites script and redirect output on "file.txt", give a directory to get the png's from:
- 3.7.0.0.2 File names in the directory should follow a imageX.png, imageX+1.png pattern.
- 3.7.0.0.3 <tt>python sprites.py <directory> > file.txt</tt>
 - To run the sheet converter script and redirect output on "file.txt", give all required arguments:
- ${\tt 3.7.0.0.4} \quad {\tt <tt>python sheet_converter.py} \quad {\tt <sheet file} \\ {\tt <sprite width} \\ {\tt <sprite height} \\ {\tt <separator thickness} \\ {\tt <starting coordinate} \\ {\tt > file.txt} \\ {\tt </tt} \\ {\tt >}$
 - To run the png resize script, give all required arguments:
- 3.7.0.0.5 <tt>python png_resize.py <sprites directory> <sprite width> <sprite height> </tt>
- 3.7.0.1 This overwrites the source pngs, so be careful.
- 3.7.1 The demo program is meant to show how to correctly call animate_file() from animate.h.
 - To run the C demo program, you do:
- 3.7.1.0.1 The demo is meant to run with the provided file.
- 3.7.1.0.2 <tt>make; ./demo demofile.txt</tt>
 - To be fancy you can use process substitution in bash to give the python output directly as an argument:
- 3.7.1.0.3 <tt>make; ./demo <(python sprites.py <directory>)</tt>
- 3.7.1.0.4 Possible animation glitches if the frame rate is too high, add in-between frames as needed.

Namespace Index

4.1 Namespace List

Here is a list of all namespaces with brief descriptions:

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8 Namespace Index

File Index

5.1 File List

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Namespace Documentation

6.1 png_resize Namespace Reference

Program that parses pngs from a passed spritesheet, to encode their color to a char per pixel.

Functions

• def usage ()

Prints correct invocation.

• def resize_sprites (directory, targetSizeX, targetSizeY)

Resizes all png files in the passed directory to the specified size.

• def main (argv)

Main program entry.

6.1.1 Detailed Description

Program that parses pngs from a passed spritesheet, to encode their color to a char per pixel.

6.1.2 Function Documentation

6.1.2.1 main()

Main program entry.

6.1.2.2 resize sprites()

Resizes all png files in the passed directory to the specified size.

Parameters

directory	The input directory with the pngs.
targetSizeX	The target width.
targetSizeY	The target height.

6.1.2.3 usage()

```
def png_resize.usage ( )
```

Prints correct invocation.

6.2 sheet_converter Namespace Reference

Program that parses pngs from a passed spritesheet, to encode their color to a char per pixel.

Functions

• def usage ()

Prints correct invocation.

- def convert_spritesheet (filename, spriteSizeX, spriteSizeY, separatorSize, startCoords)
 - Converts a spritesheet to a 3D char array representation of pixel color and then prints it with the needed brackets and commas.
- def main (argv)

Main program entry.

6.2.1 Detailed Description

Program that parses pngs from a passed spritesheet, to encode their color to a char per pixel.

6.2.2 Function Documentation

6.2.2.1 convert_spritesheet()

```
def sheet_converter.convert_spritesheet (
    filename,
    spriteSizeX,
    spriteSizeY,
    separatorSize,
    startCoords )
```

Converts a spritesheet to a 3D char array representation of pixel color and then prints it with the needed brackets and commas.

Parameters

filename	The input spritesheet file.
spriteSizeX	The sprite width.
spriteSizeY	The sprite height.
separatorSize	Thickess of separator pixels.
startCoords	Coords (a,a) of left corner of first sprite.

6.2.2.2 main()

```
def sheet_converter.main ( argv )
```

Main program entry.

6.2.2.3 usage()

```
def sheet_converter.usage ( )
```

Prints correct invocation.

6.3 sprites Namespace Reference

Program that parses pngs from a passed directory, to encode their color to a char per pixel.

Functions

• def usage ()

Prints correct invocation.

• def color_distance (c1, c2)

Calculates the distance in color between two rgb tuples.

• def create_palette (colors)

Creates a palette by adding the colors passed as an array, then pads the palette.

• def convert_sprite (file)

Takes a image file and converts each pixel to a char representation of its color (closest match to CHAR_MAP).

• def print_converted_sprites (direc)

Takes a directory containing image file and calls convert_sprite on each one.

• def main (argv)

Main program entry.

6.3.1 Detailed Description

Program that parses pngs from a passed directory, to encode their color to a char per pixel.

6.3.2 Function Documentation

6.3.2.1 color_distance()

```
def sprites.color_distance ( c1, c2 )
```

Calculates the distance in color between two rgb tuples.

Parameters

c1	The first input color to measure.
c2	The second input color to measure.

Returns

The color distance between the two.

6.3.2.2 convert_sprite()

Takes a image file and converts each pixel to a char representation of its color (closest match to CHAR_MAP).

Parameters 4 8 1

```
file The image file to convert.
```

Returns

The converted sprite as a char matrix.

6.3.2.3 create_palette()

```
def sprites.create_palette ( colors )
```

Creates a palette by adding the colors passed as an array, then pads the palette.

Parameters

put in the palette.	colors
---------------------	--------

Returns

The filled and padded palette.

6.3.2.4 main()

```
{\tt def} sprites.main ( {\tt argv} )
```

Main program entry.

6.3.2.5 print_converted_sprites()

```
\begin{tabular}{ll} def & sprites.print\_converted\_sprites & ( \\ & direc & ) \end{tabular}
```

Takes a directory containing image file and calls convert_sprite on each one.

Then it outputs all the converted sprites to stdout, including the necessary brackets to have a valid C array declaration.

Parameters

direc The directory of image files to convert and print.

6.3.2.6 usage()

```
def sprites.usage ( )
```

Prints correct invocation.

File Documentation

7.1 sprites4curses/animate.c File Reference

```
#include <ncurses.h>
#include <unistd.h>
#include <locale.h>
#include <string.h>
#include <ctype.h>
#include <stdlib.h>
#include "animate.h"
```

Functions

- void load_sprites (char sprites[MAXFRAMES][MAXROWS][MAXCOLS], const char *filename, int rows, int columns)
- void animate_demo_usage (char *progname)
- void init_color_pairs ()
- void animate_file (WINDOW *w, char *filename, int repetitions, int frametime, int num_frames, int frameheight, int framewidth)
- void demo (char *filename)

7.1.1 Function Documentation

7.1.1.1 animate_demo_usage()

7.1.1.2 animate_file()

```
void animate_file (
     WINDOW * w,
     char * filename,
     int repetitions,
     int frametime,
     int num_frames,
     int frameheight,
     int framewidth )
```

7.1.1.3 demo()

```
void demo ( {\tt char} \ * \ {\it filename} \ )
```

7.1.1.4 init_color_pairs()

```
void init_color_pairs ( )
```

7.1.1.5 load_sprites()

7.2 sprites4curses/animate.h File Reference

```
#include <ncurses.h>
```

Macros

- #define RED 1
- #define YELLOW 2
- #define GREEN 3
- #define CYAN 4
- #define BLUE 5
- #define MAGENTA 6
- #define BLACK 7
- #define WHITE 8
- #define MAXFRAMES 61

Defines the maximum number of sprites.

• #define DEMOFRAMES 30

Defines the number of sprites in the demo.

• #define MAXROWS 26

Defines the maximum number of rows per sprite.

• #define MAXCOLS 84

Defines the maximum number of colums per sprite.

• #define DEMOROWS 18

Defines the maximum number of rows per sprite.

• #define DEMOCOLS 18

Defines the maximum number of colums per sprite.

• #define DEMOFRAMETIME 67

Defines for how many millisecs a sprite should stay on screen in the demo.

Functions

- void load_sprites (char sprites[MAXFRAMES][MAXROWS][MAXCOLS], const char *filename, int rows, int columns)
- void animate demo usage (char *progname)
- void init_color_pairs ()
- void animate_file (WINDOW *w, char *filename, int repetitions, int frametime, int num_frames, int frameheight, int framewidth)
- void demo ()

7.2.1 Macro Definition Documentation

7.2.1.1 BLACK

#define BLACK 7

7.2.1.2 BLUE

#define BLUE 5

7.2.1.3 CYAN

#define CYAN 4

7.2.1.4 **DEMOCOLS**

#define DEMOCOLS 18

Defines the maximum number of colums per sprite.

7.2.1.5 DEMOFRAMES

#define DEMOFRAMES 30

Defines the number of sprites in the demo.

7.2.1.6 DEMOFRAMETIME

#define DEMOFRAMETIME 67

Defines for how many millisecs a sprite should stay on screen in the demo.

7.2.1.7 DEMOROWS

#define DEMOROWS 18

Defines the maximum number of rows per sprite.

7.2.1.8 GREEN

#define GREEN 3

7.2.1.9 MAGENTA

#define MAGENTA 6

7.2.1.10 MAXCOLS

#define MAXCOLS 84

Defines the maximum number of colums per sprite.

7.2.1.11 MAXFRAMES

#define MAXFRAMES 61

Defines the maximum number of sprites.

7.2.1.12 MAXROWS

#define MAXROWS 26

Defines the maximum number of rows per sprite.

7.2.1.13 RED

#define RED 1

7.2.1.14 WHITE

#define WHITE 8

7.2.1.15 YELLOW

#define YELLOW 2

7.2.2 Function Documentation

7.2.2.1 animate_demo_usage()

7.2.2.2 animate_file()

```
void animate_file (
     WINDOW * w,
     char * filename,
     int repetitions,
     int frametime,
     int num_frames,
     int frameheight,
     int framewidth )
```

7.2.2.3 demo()

```
void demo ( )
```

7.2.2.4 init_color_pairs()

```
void init_color_pairs ( )
```

7.2.2.5 load_sprites()

7.3 animate.h

7.3 animate.h

Go to the documentation of this file.

```
1 #include <ncurses.h>
 //These define the colors for init_pair() without an order
3 #define RED 1
4 #define YELLOW 2
5 #define GREEN 3
6 #define CYAN 4
  #define BLUE 5
8 #define MAGENTA 6
9 #define BLACK 7
10 #define WHITE 8
12 #define MAXFRAMES 61
13 #define DEMOFRAMES 30
14 #define MAXROWS 26
15 #define MAXCOLS 84
16 #define DEMOROWS 18
17 #define DEMOCOLS 18
19 #define DEMOFRAMETIME 67
21 static void print_spriteline(WINDOW* w, char* line, int line_num);
22 static char *trim(char *str);
23 void load_sprites(char sprites[MAXFRAMES][MAXROWS][MAXCOLS], const char *filename, int rows, int
       columns);
24 void animate_demo_usage(char* progname);
25 void init_color_pairs();
26 void animate_file(WINDOW* w, char* filename, int repetitions, int frametime, int num_frames, int
       frameheight, int framewidth);
```

7.4 sprites4curses/demo.c File Reference

```
#include "animate.h"
```

Functions

```
• int main (int argc, char **argv)
```

7.4.1 Function Documentation

7.4.1.1 main()

- 7.5 sprites4curses/documentation/README.md File Reference
- 7.6 sprites4curses/README.md File Reference
- 7.7 sprites4curses/palette-README.md File Reference
- 7.8 sprites4curses/png resize.py File Reference

Program that resizes pngs to a desired size and overwrites them.

Namespaces

• namespace png_resize

Program that parses pngs from a passed spritesheet, to encode their color to a char per pixel.

Functions

• def png_resize.usage ()

Prints correct invocation.

• def png_resize.resize_sprites (directory, targetSizeX, targetSizeY)

Resizes all png files in the passed directory to the specified size.

def png_resize.main (argv)

Main program entry.

7.8.1 Detailed Description

Program that resizes pngs to a desired size and overwrites them.

7.8.2 Description

The program overwrites the passed pngs with the resized version.

Program expects the spritesheet filename as first argument, the sprite width as second arg, the sprite height as third arg.

7.8.3 Libraries/Moodules

- Pillow (https://pillow.readthedocs.io/en/stable/)
 - Access to image manipulation functions.
- sys standard library (https://docs.python.org/3/library/sys.html)
 - Access to command line arguments.
- os standard library (https://docs.python.org/3/library/os.html)
 - Access to program name.

7.8.4 Notes

• The pngs are overwritten by default.

7.8.5 TODO

· Offer option to output to new files and not overwrite.

7.8.6 Author(s)

- · Created by igabaut on 24/02/2022.
- Modified by jgabaut on 24/02/2022.

7.9 sprites4curses/sheet_converter.py File Reference

Program that parses pngs from a passed spritesheet, to encode their color to a char per pixel.

Namespaces

• namespace sheet_converter

Program that parses pngs from a passed spritesheet, to encode their color to a char per pixel.

Functions

def sheet_converter.usage ()

Prints correct invocation.

- def sheet_converter.convert_spritesheet (filename, spriteSizeX, spriteSizeY, separatorSize, startCoords)
 - Converts a spritesheet to a 3D char array representation of pixel color and then prints it with the needed brackets and commas.
- def sheet_converter.main (argv)

Main program entry.

7.9.1 Detailed Description

Program that parses pngs from a passed spritesheet, to encode their color to a char per pixel.

7.9.2 Description

The program supports 8 colors at the moment. The png parsing uses Pillow, and the mapping is done against a preset color list. The list is described in palette.gpl to aid in exporting images with the correct color indexing.

Program expects the spritesheet filename as first argument, the sprite width as second arg, the sprite height as third, separator size (thickness) as fourth, a 0 or 1 for starting coords of the first sprite (0 if sheet has no edge separator) as fifth argument.

7.9.3 Libraries/Moodules

- Pillow (https://pillow.readthedocs.io/en/stable/)
 - Access to image manipulation functions.
- sys standard library (https://docs.python.org/3/library/sys.html)
 - Access to command line arguments.
- os standard library (https://docs.python.org/3/library/os.html)
 - Access to program name.

7.9.4 Notes

· Color map should have the same order as the palette used to index the sprites.

7.9.5 TODO

• The limitation to 8 colors will be overcome soon.

7.9.6 Author(s)

- · Created by jgabaut on 24/02/2022.
- · Modified by jgabaut on 24/02/2022.

7.10 sprites4curses/sprites.py File Reference

Program that parses pngs from a passed directory, to encode their color to a char per pixel.

Namespaces

· namespace sprites

Program that parses pngs from a passed directory, to encode their color to a char per pixel.

Functions

• def sprites.usage ()

Prints correct invocation.

• def sprites.color_distance (c1, c2)

Calculates the distance in color between two rgb tuples.

• def sprites.create_palette (colors)

Creates a palette by adding the colors passed as an array, then pads the palette.

• def sprites.convert_sprite (file)

Takes a image file and converts each pixel to a char representation of its color (closest match to CHAR_MAP).

• def sprites.print_converted_sprites (direc)

Takes a directory containing image file and calls convert_sprite on each one.

• def sprites.main (argv)

Main program entry.

7.10.1 Detailed Description

Program that parses pngs from a passed directory, to encode their color to a char per pixel.

7.10.2 Description

The program supports 8 colors at the moment. The png parsing uses Pillow, and the mapping is done against a preset color list. The list is described in palette.gpl to aid in exporting images with the correct color indexing.

7.10.3 Libraries/Moodules

- Pillow (https://pillow.readthedocs.io/en/stable/)
 - Access to image manipulation functions.
- sys standard library (https://docs.python.org/3/library/sys.html)
 - Access to command line arguments.
- glob standard library (https://docs.python.org/3/library/glob.html)
 - Access to pattern expansion.
- re standard library (https://docs.python.org/3/library/re.html)
 - Access to regular expressions.
- os standard library (https://docs.python.org/3/library/os.html)
 - Access to program name.

7.10.4 Notes

• Color map should have the same order as the palette used to index the sprites.

7.10.5 TODO

• The limitation to 8 colors will be overcome soon.

7.10.6 Author(s)

- Created by jgabaut on 24/02/2022.
- Modified by jgabaut on 24/02/2022.

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