

About

This is the code for the Gimp plugin to export for the sign!

Code

filename: save_to_led.py

```
#!/usr/bin/env python

from gimpfu import *
import os

def getpixel(drawable, x, y):
    tile = drawable.get_tile2(False, x, y)
    x_offset = x % 64
    y_offset = y % 64
    pixel = tile[x_offset, y_offset]

    values = []
    for i in range(len(pixel)):
        values.append(ord(pixel[i]))

    if len(values) == 1:
        values.append(255)
    return values

def led_sign(img, layer, filename, rawfilename, hidden, time, append) :
    width = img.width
    height = img.height
    tmp_img = img.duplicate()
    tmp_layer = tmp_img.flatten()
    if append:
        out_file = "\r\n%s\r\n" % time
    else:
        out_file = "%s\r\n" % time
    for y in range(0, 32):
        for x in range(0, 128):
            if (x < width and y < height):
                tmp_pixel = getpixel(tmp_layer, x, y)
            else:
                tmp_pixel = [0, 0, 0]

            if(tmp_pixel[0] > 128 and tmp_pixel[1] > 128):
                out_file += '3'
            elif(tmp_pixel[0] > 128):
                out_file += '1'
            elif(tmp_pixel[1] > 128):
```

```
        out_file += '2'
    else:
        out_file += '0'
    out_file += '\r\n'

    file_object = open(filename, append and "ab" or "wb")
    file_object.write(out_file[0:-2]);
    file_object.close()
    return

def register_save():
    gimp.register_save_handler("file-led_sign-save", "led", "")

register(
    "file-led_sign-save",
    "Export for LED sign",
    "Exports the current image for use on the HACMan LED sign",
    "Bob Clough",
    "Bob Clough",
    "2012",
    "<Save>/HACMan LED sign",
    "*",
    [
        (PF_VALUE, "no_idea", "No Idea", None),
        (PF_STRING, "out_time", "Time to show frame (ms)", "01000"),
        (PF_BOOL, "out_append", "Append to file", True),
    ],
    [],
    led_sign, on_query=register_save
)

main()
```

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