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1  #!/usr/bin/env python
2  # -*- coding: utf-8 -*-
3  # Copyright (c) 2017-18 Richard Hull and contributors
4  # License: https://github.com/rm-hull/luma.led_matrix/blob/master/LICENSE.rst
5  # Github link: https://github.com/rm-hull/luma.led_matrix/
6
7  # Import all the modules
8  import re
9  import time
10 from luma.led_matrix.device import max7219
11 from luma.core.interface.serial import spi, noop
12 from luma.core.render import canvas
13 from luma.core.virtual import viewport
14 from luma.core.legacy import text, show_message
15 from luma.core.legacy.font import proportional, CP437_FONT, TINY_FONT, SINCLAIR_FONT,
LCD_FONT
16
17
18 def main(cascaded, block_orientation, rotate):
19
20     # create matrix device
21     serial = spi(port=0, device=1, gpio=noop())
22     device = max7219(serial, cascaded=cascaded or 1, block_orientation=block_orientation,
rotate=rotate or 0)
23     # debugging purpose
24     print("[+] Matrix initialized")
25
26     # print hello world on the matrix display
27     msg = "Hello World"
28     # debugging purpose
29     print("[+] Printing: %s" % msg)
30     show_message(device, msg, fill="white", font=proportional(CP437_FONT),
scroll_delay=0.1)
31
32
33 if __name__ == "__main__":
34
35     # cascaded = Number of cascaded MAX7219 LED matrices, default=1
36     # block_orientation = choices 0, 90, -90, Corrects block orientation when wired
vertically, default=0
37     # rotate = choices 0, 1, 2, 3, Rotate display 0=0°, 1=90°, 2=180°, 3=270°, default=0
38
39     try:
40         main(cascaded=1, block_orientation=90, rotate=0)
41     except KeyboardInterrupt:
42         pass
43

```