

Sense HAT

Python 3 cheat sheet



To add Sense HAT functionality to your Python programs, add the following lines to import the library for the Sense HAT:

from sense_hat import SenseHat
sense = SenseHat()

From that point forwards, you can use any of the set of functions from the Sense HAT library.

	sense.set_pixel(0, 0, 255, 0, 0)	Sets the top left LED to the colour red.
	<pre>sense.show_letter("J", text_colour=[0, 0, 255])</pre>	Displays the letter "J" on the screen in blue.
	<pre>sense.show_message("msg", text_colour=[0, 255, 0])</pre>	Displays the message "msg" on the matrix in green.
	sense.load_image("creeper.png", redraw=True)	Loads an 8x8 image "creeper.png" image and displays it.
	sense.clear()	Clears the LEDs and switches them all off.
	<pre>sense.set_rotation(r=0)</pre>	Sets the rotation of the LED matrix.
	R = [255, 0, 0] # Red W = [255, 255, 255] # White	
LED Matrix	pixel_list = [W, W, W, R, R, W, W,	Defines two RGB colours, stored as variables R and W.
	M, K, W, W, K, W, W, W, W, K, W, W, W, K, W, W, E D E E E	Uses set_pixels to draw a picture on the LED matrix, with each item in the pixel_list an instance of R or W.
	M, W, W, K, W,	Note: Make sure to never mix up the set_pixel and set_pixels commands!
	<pre>sense.set_pixels(pixel_list)</pre>	

accelerometer_data = sense.get_accelerometer_raw() sense.show_message("Spaaaaaaace!!", scroll_speed=0.05, text_colour=[255, 255, 0], back_colour=[0, 0, 255]) y = round(accelerometer_data['x'], 0) from sense_hat import SenseHat sense.set_rotation(180) sense.set_rotation(270) sense.set_rotation(90) sense.set_rotation(0) Rotating letter "J" sense.show_letter("J") sense = SenseHat() time.sleep(0.1) elif y == -1: elif y == 1: if x == -1: import time while True: msg = "Temp = %s, Pressure = %s, Humidity = %s" % (t, p, h)sense.show_message(msg, scroll_speed=0.05) t = sense.get_temperature() from sense_hat import SenseHat from sense_hat import SenseHat **Environmental Sensing** p = sense.get_pressure() h = sense.get_humidity() Scrolling Message t = round(t, 1)p = round(p, 1)h = round(h, 1)sense = SenseHat() sense = SenseHat() while True: while True: