Sense HAT smile



Test the Sense HAT

Open **Mu** and open the **REPL**. Type the following commands directly into the **REPL**:

```
from sense_hat import SenseHat
sense = SenseHat()
sense.show_message("Hello world")
```

Press Enter after each line, and after the third line, the message should appear on the Sense HAT's display.

Now try retreiving the sensor values:

```
sense.temperature
sense.humidity
sense.pressure
sense.accelerometer
sense.gyroscope
sense.orientation
```

When you press Enter, you will see the sensor's value.







Faces



Open a new window and type:

```
from sense_hat import SenseHat
from faces import normal, happy, sad
from time import sleep

sense = SenseHat()

sense.set_pixels(sad)
sleep(1)
sense.set_pixels(normal)
sleep(1)
sense.set_pixels(happy)
```

2 Now close the REPL and use the main window to type the following program into a file:

And breathe...

1 Replace the last 5 lines with:

```
start_humidity = sense.humidity
while True:
    print(sense.humidity)
    if sense.humidity > start_humidity + 10:
        sense.set_pixels(happy)
    elif sense.humidity > start_humidity + 5:
        sense.set_pixels(normal)
    else:
        sense.set_pixels(sad)
    sleep(1)
```

2 Run the code again. Now breathe on the Sense HAT and see if you can make it smile!

