Random sparkles



Create amazing random sparkles with your Sense HAT

Set a single pixel



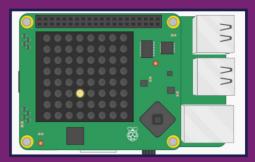
Open the Python file provided, or get it from **rpf.io/sparklesgo**. Add code to set a single pixel at position (x=3, y=5) on the Sense HAT to orange (r=255, g=165, b=0).

```
from sense_hat import SenseHat
sense = SenseHat()

from random import randint
from time import sleep

x = 3
y = 5
r = 255
g = 165
b = 0

sense.set_pixel(x, y, r, g, b)
```



2 Random pixel and colour



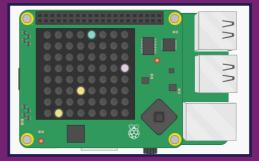
Modify the code you have written to set a random pixel to a random colour, rather than setting a specific pixel to a specific colour. **Run your code** a few times — you should see more of the grid fill up with random pixels.



```
from sense_hat import SenseHat
sense = SenseHat()

from random import randint
from time import sleep

x = randint(0,7)
y = randint(0,7)
r = randint(0,255)
g = randint(0,255)
b = randint(0,255)
sense.set_pixel(x, y, r, g, b)
```















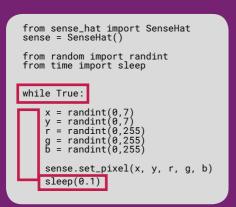


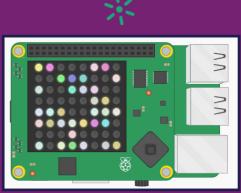


Creating sparkles!

Add a while True: loop and a sleep() to repeatedly set random pixels on the Sense HAT.

Make sure to indent the code inside the loop by pressing the tab key.









Challenge: timings

Can you edit your code to make the sparkles appear faster or slower?





Want to learn more? Find the whole project at **rpf.io/sparkles** Check out many other fun projects at **rpf.io/projects**