



Chapter 9

A Final Project: The Sense HAT

Main takeaways of this chapter

- ★ You can install expansion cards on your Raspberry Pi (HATs). They are plugged to the GPIO ports and can be controlled with Python. The Sense HAT is one of the most popular.
- ★ The Sense HAT come with an API that you can use in your scripts with:

```
from sense_hat import SenseHat  
sense = SenseHat()
```
- ★ There are functions available for each feature of the Sense HAT (sensors, LED display, joystick, etc.)

Action steps

- This chapter is a great way to wrap up everything we have seen previously, so feel free to read it twice if needed. In the examples I use concepts like variables, objects and classes, functions, lists, etc.
- Do the exercise given in the book.
- Try to improve your script and build a mini-game. For example, start the script by randomly placing a red pixel that will end the script if you touch it. You can go as far as doing a Pacman replica once you understand everything in this chapter.