

Swagbot 3k

USER MANUAL

Starting up

STEP 1 To access all the applications you can use with Swagbot 3k you begin with starting up the GUI. To do this you import the file GUI.py from the

terminal while you have Python running.

STEP 2 Press the **'connect'** button in the right lower corner of the GUI window. Then type in your **'password'** button to connect to Swagbot 3k. When you are connected to your robot you are ready to go.

When you have imported the file the GUI will appear in a new window. Now you have a graphical view of all the functions you can use with Swagbot 3k. There are different pre-programmed states you can utilize.

States

Run state

In this mode you can steer Swagbot 3k freely using the keys 'w', 'a', 's' and 'd' on your keyboard. You can also add commands such as different moving commands found in the upper corner of the GUI window.

Peaceful state

This mode is one of the pre-programmed states. Swagbot 3k will run randomly in an unspecified area until it finds an intruder. When the intruder is spotted Swagbot 3k goes into 'Guard state'.

Guard state

In this state Swagbot 3k patrols the area in the current room. When the intruder is spotted Swagbot 3k attacks the target by firing balls.

Programming state

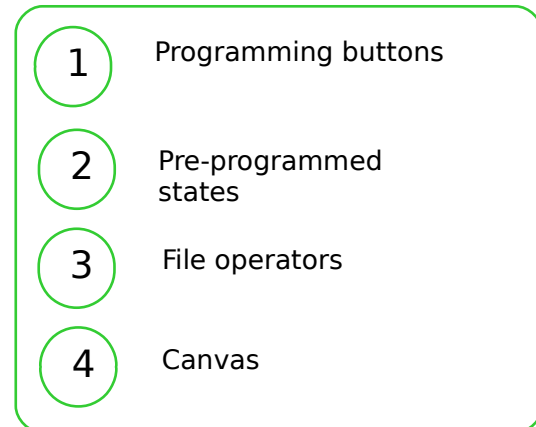
To make your own programs you will enter programming state. In this state you will be able to save and upload your written programs. To create a program you will use the different pre-programmed moving functions.

Guardroom

This is a pre-programmed state that makes Swagbot 3k partroll an area of 1x1 meter at the time.

Shutdown

To close the program you press the **'shutdown'** button.



Graphical

user

interface

1

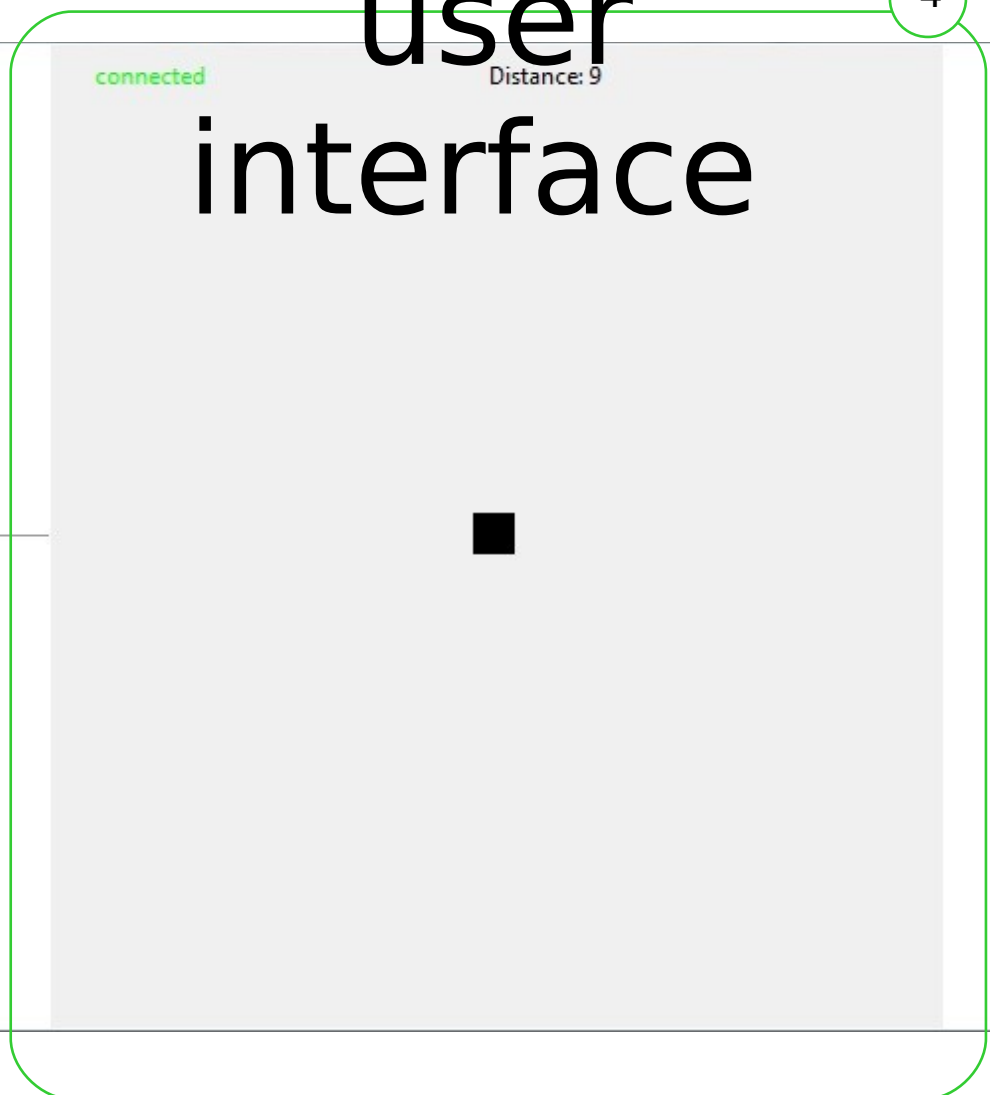
left forward right
backward
turn by degree
while end while
if end if
time distance on/off

2

run state
programming state
guard state
peaceful state
guard room

4

connected
Distance: 9



3

shutdown

clear
run
save
open
connect
disconnect
manual connection