

# The dog performs a preset action

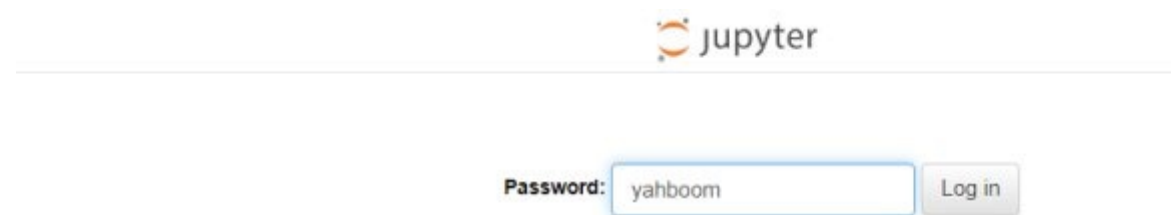
## 1. Purpose

Learn to control the preset actions of the robot dog

**If you want to climb stairs, you need to use firmware V4.3.2 or above, otherwise it will not work.**

## 2. Experimental path source code

Enter the robot dog system, end the robot dog program, enter "ip (ip is the robot dog's ip): 8888" in the browser, and enter the password "yahboom"



Then log in and go to **cd ~/DOGZILLA\_Lite\_class/3.Dog Base Control/06.Execute preset actions** and run **contorl\_action.ipynb**.

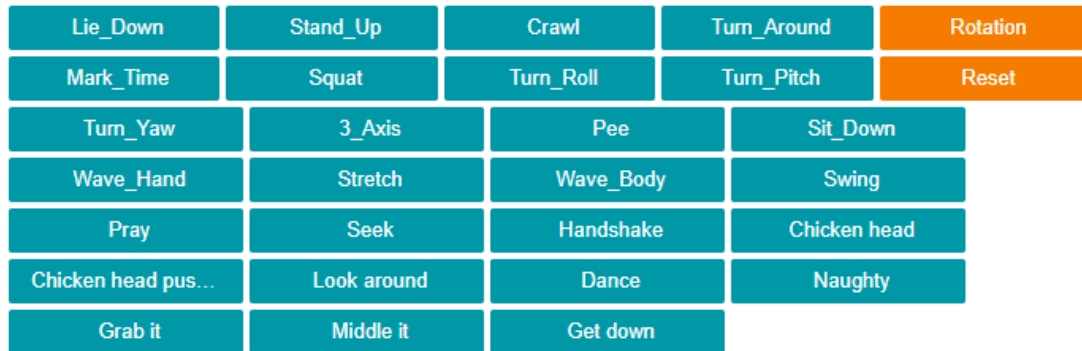
## 3. Experimental Phenomenon

After running the source code, run it to the end, and then control the preset actions according to the buttons at the bottom, and the robot dog will execute the corresponding action group. If you want the button prompt to be in Chinese, change False to True here. The default is English

```
# 中文开关, 默认为英文 Chinese switch. The default value is English  
g_ENABLE_CHINESE = False True
```

```
[6]: # 布局控件并显示 Layout widgets and display them
output = widgets.Output()
box_btn_1 = widgets.HBox([button_action_1, button_action_2, button_action_3, button_action_4, b
box_btn_2 = widgets.HBox([button_action_5, button_action_6, button_action_7, button_action_8, b
box_btn_3 = widgets.HBox([button_action_9, button_action_10, button_action_11, button_action_12
box_btn_4 = widgets.HBox([button_action_13, button_action_14, button_action_15, button_action_1
box_btn_5 = widgets.HBox([button_action_17, button_action_18, button_action_19, button_action_2
box_btn_6 = widgets.HBox([button_action_21, button_action_22, button_action_23, button_action_2
box_btn_7 = widgets.HBox([button_action_25, button_action_26, button_action_27]) #, button_acti

box_v = widgets.VBox([box_btn_1, box_btn_2, box_btn_3, box_btn_4, box_btn_5, box_btn_6, box_btn
box_display = widgets.VBox([box_v, output])
display(box_display)
```



## 4. Main source code analysis

1. g\_dog.action(num)

- Incoming parameter: num The action group number corresponding to the action group is as follows

ID	Actions	Duration/s	ID	Actions	Duration/s	ID	Actions	Duration/s
1	Lie down	3	2	Stand up	3	3	Crawl	5
4	Turn in a circle	5	5	Mini is stepping	4	6	Squat	4
7	Roll	4	8	Turn Pitch	4	9	Yaw	4
10	Three-axis rotation	7	11	Pee	7	12	Sit	5
13	Wave	7	14	Stretch	10	15	Wave	6
16	Sway	6	17	Beg	6	18	Find food	6
19	Shake hands	10	20	Chicken head	9	21	Push-ups	8
22	Look around	8	23	Dance	6	24	Playful	7
128	Grab up	10	129	Catch	10	130	Grab	10