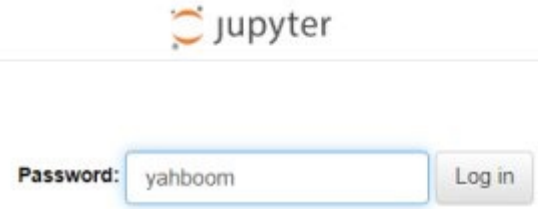
Car forward and backward

1. Experimental purpose

Drive the car's forward and backward movement

2. Experimental path source code

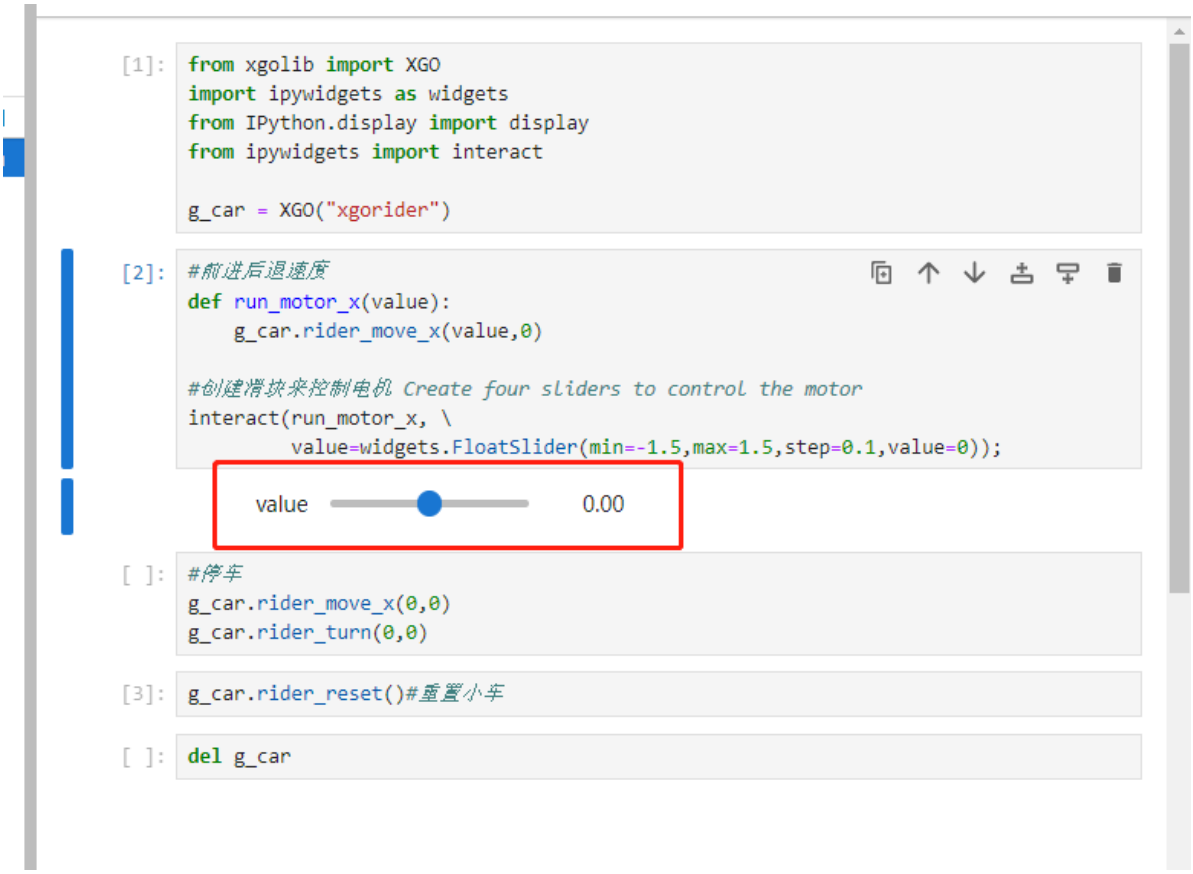
Enter the car's system, end the car program, enter "ip (ip is the car's ip): 8888" in the browser, enter the password "yahboom"



Then log in
Enter **Rider-pi_class/3.Base Motion/1. Front and rear movement of the car** and run **car_fb.ipynb**.

3. Experimental phenomenon

After running the code, adjust the slider's speed to make the car move forward and backward. **The car cannot be in a stopped state (that is, not in a standing balance state), otherwise it cannot move.**



```
[1]: from xgolib import XGO
     import ipywidgets as widgets
     from IPython.display import display
     from ipywidgets import interact

     g_car = XGO("xgorider")

[2]: #前进后退速度
     def run_motor_x(value):
         g_car.rider_move_x(value,0)

     #创建滑块来控制电机 Create four sliders to control the motor
     interact(run_motor_x, \
              value=widgets.FloatSlider(min=-1.5,max=1.5,step=0.1,value=0));
```

value 0.00

```
[ ]: #停车
     g_car.rider_move_x(0,0)
     g_car.rider_turn(0,0)

[3]: g_car.rider_reset()#重置小车

[ ]: del g_car
```

4. Analysis of main source code parameters

```
# Forward and backward speed
def run_motor_x(value):
g_car.rider_move_x(value,0)
# Create sliders to control the motor Create four sliders to control the motor
interact(run_motor_x, \
value=widgets.FloatSlider(min=-1.5,max=1.5,step=0.1,value=0));
```

rider_move_x: This function controls the forward movement of the car, with a speed range of -1.5~1.5, negative numbers for backward movement, and positive numbers for forward movement.