# 遠端行進控制

# 如何送出前進指令(網頁端)

<input type="**hidden**" name="action" value="1" id="forward" />

<input type="button" value="Forward" id="btnF" style="width:200px;height:70px"

**onclick**="**YBBControl(** *document.getElementById('forward').value* **);"** />

**1**

```
function YBBControl(action) {
    document.getElementById("description").innerHTML = " Button Click";
    server = "/arduino/robot/" + action;
    request = new XMLHttpRequest();
    request.open("GET", server, true);
    request.send(null);
}
```

http://YUN's IP/ arduino/ robot / 1

# Arduino分析接收訊息

**Arduino YUN**

*Linino*

網頁檔案(html)

Bridge/process

*Arduino*

Script (ino)

http://YUN's IP/ arduino/ robot / 1

robot/ 1

```
void setup() {
    …………
    servoLeft.attach(11);   // 連接左邊馬達的訊號到PIN 11
    servoRight.attach(10); // 連接右邊馬達的訊號到PIN 10
    …………
}
```

```
void process(YunClient client) {
    String command = client.readStringUntil('/');     //讀取指令，讀取指令的字串直到遇到 / 符號
    if (command == "status") {                // 是"status"指令? (回報個接腳狀態)
        statusCommand(client);        // 是的話執行statusCommand副程式
    }

    if (command == "robot") {              // 是否為"robot"指令? (控制移動方向)
        robotCommand(client);              // 是的話執行robotCommand副程式
    }
}  // end of process()
```
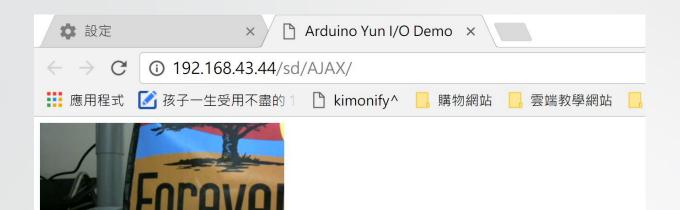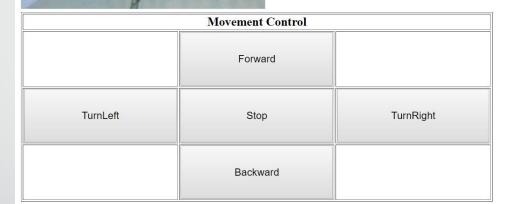
# Arduino控制行進方向

robot/1

1

```
void robotCommand(YunClient client) {
  byte command;
  command = client.parseInt();
  if (command == 1) {      // 前進
    forward();
  }
  if (command == 2) {      // 後退
    backward();
  }
  if (command == 3) {      // 右轉
    turnright();
  }
  if (command == 4) {      // 左轉
    turnleft();
  }
  if (command == 5) {      // 停止移動
    carstop();
  }
} //  end of robotCommand()
```

| Movement Control | | |
|:---:|:---:|:---:|
| | Forward | |
| TurnLeft | Stop | TurnRight |
| | Backward | |

| Status Display | | |
|:---:|:---:|:---:|
| **Light** | **LED Green (12)** | **LED Red (13)** |
| 1004 |  |  |
| **X axis** | **Y axis** | **Z axis** |
| 339 | 346 | 407 |

status,12=0,13=1,A0=1004,A1=407,A2=346,A3=339