Week 6

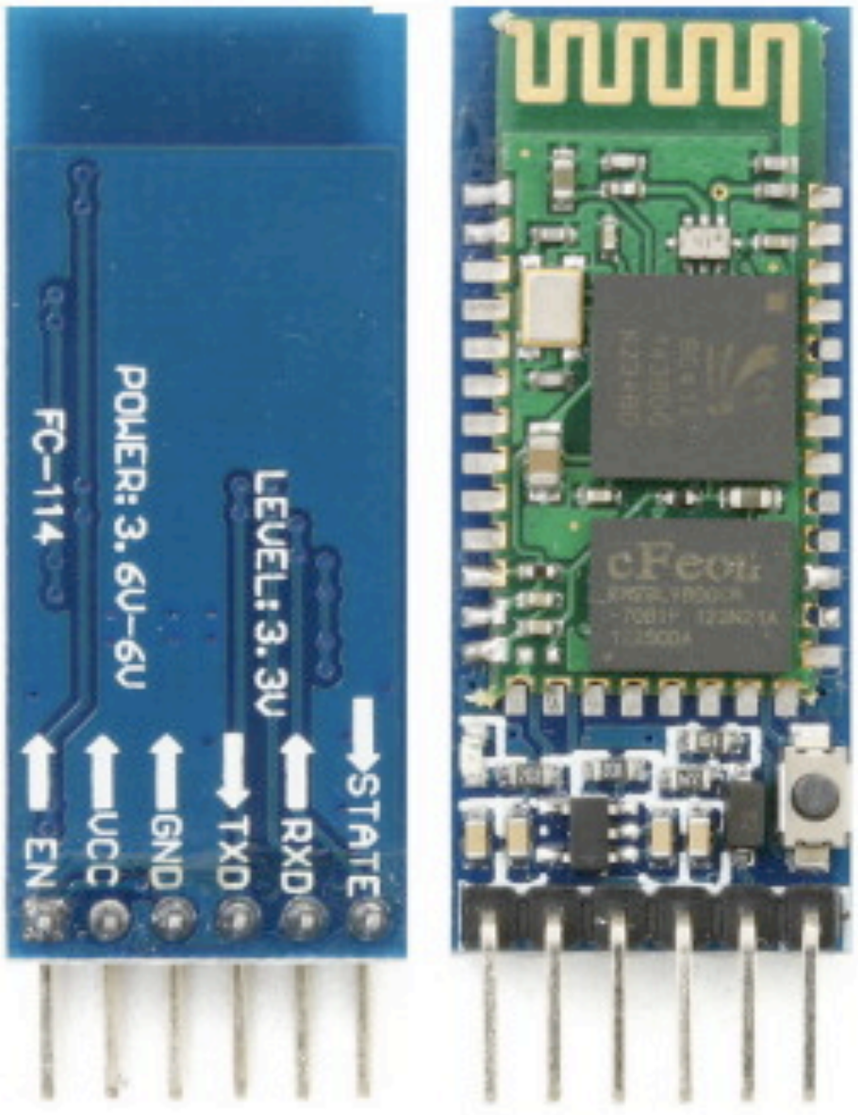
Howard Ke

https://goo.gl/o1fVWj

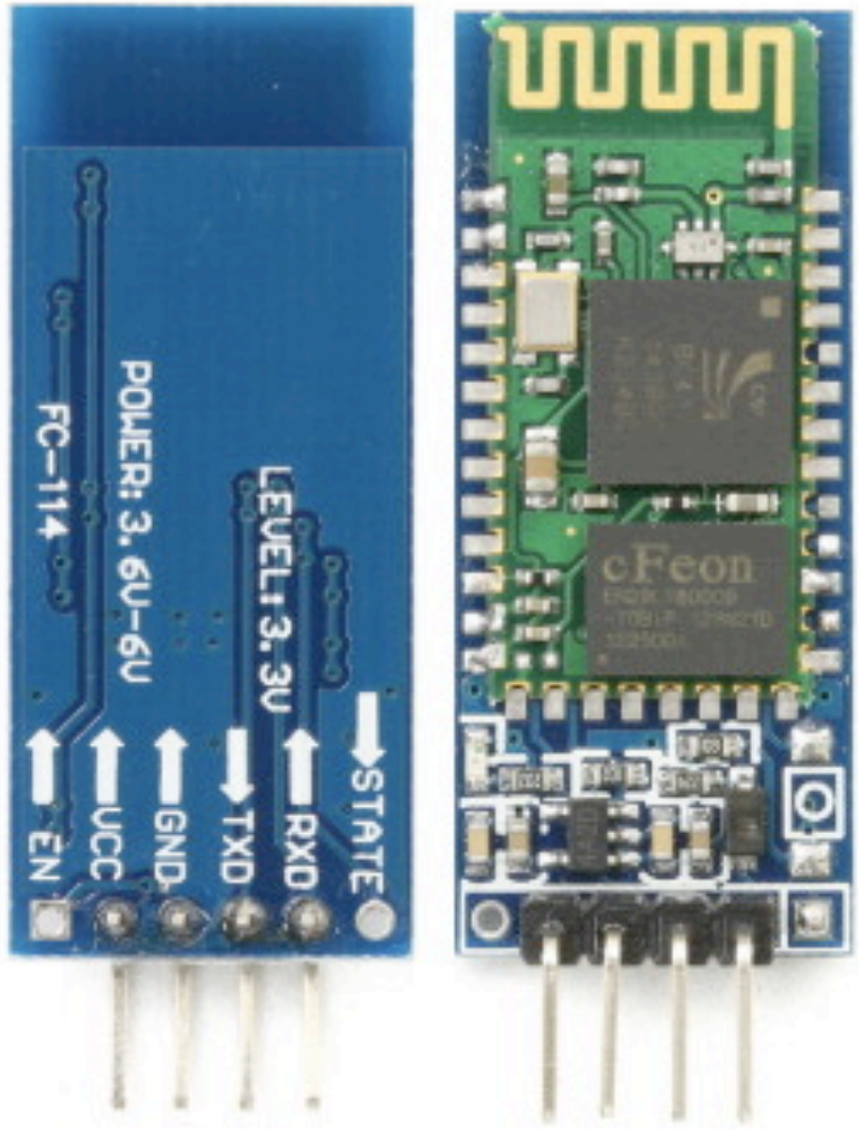
投影片檔案

藍牙模組

HC-05 FC-114



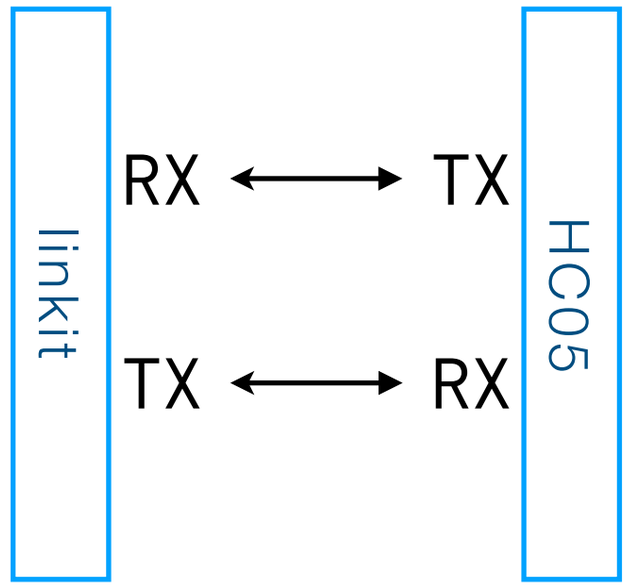
HC-06 FC-114



初始化

```
#include "SoftwareSerial.h"
#include "Wire.h"
                          RX   TX
SoftwareSerial I2CBT(11, 12);

void setup()
{
  Serial.begin(9600);
  I2CBT.begin(9600);
}
```



字元

```
char a = 'a';
char question_mark = '?';
char b = '1';

a = '2';
b = 'd';
```

字串

```
String hello = "helloworld";
String s = "";

Serial.println(hello);   // helloworld
Serial.println("hello"); // hello

s = "hello";  // s == "hello"
s += "world"; // s == "helloworld"
s += '!';     // s == "helloworld!"
```

讀取藍牙指令

```
String command;
int insize;

void getBTData()
{
  command = "";
  insize = I2CBT.available();
  if (insize > 0)
  {
    for (int i = 0; i <= insize - 1; i++)
    {
      command += char(I2CBT.read());
    }
  }
}
```

判斷藍牙指令

```
void loop()
{
  getBTData();
  delay(500);

  if (command == "forth")
  {
    forward();
  }
  else if (command == "back")
  {
    backward();
  }
  // 左轉、右轉、停止、其他自定義的動作
}
```

指令表

字串	說明
forth	前進
back	後退
left	左轉
right	右轉
stop	停止