程式：WiFiWebClient 讀取網頁資料

**開啟程式**WiFiWebClient

**程式位址：**https://github.com/brucetsao/BruceCourses/blob/master/105ANQU\_IOT/Code/WiFiWebClient/WiFiWebClient.ino

|  |
| --- |
| #include <WiFi.h>char ssid[] = "Ameba"; // your network SSID (name)char pass[] = "AP1234"; // your network password (use for WPA, or use as key for WEP)int keyIndex = 0; // your network key Index number (needed only for WEP)int status = WL\_IDLE\_STATUS;//IPAddress server(64,233,189,94); // numeric IP for Google (no DNS)char server[] = "www.google.com"; // name address for Google (using DNS)WiFiClient client;void setup() { //Initialize serial and wait for port to open: Serial.begin(9600); while (!Serial) { ; } // check for the presence of the shield: if (WiFi.status() == WL\_NO\_SHIELD) { Serial.println("WiFi shield not present"); // don't continue: while (true); } String fv = WiFi.firmwareVersion(); if (fv != "1.1.0") { Serial.println("Please upgrade the firmware"); } // attempt to connect to Wifi network: while (status != WL\_CONNECTED) { Serial.print("Attempting to connect to SSID: "); Serial.println(ssid); // Connect to WPA/WPA2 network. Change this line if using open or WEP network: status = WiFi.begin(ssid, pass); // wait 10 seconds for connection: delay(10000); } Serial.println("Connected to wifi"); printWifiStatus(); Serial.println("\nStarting connection to server..."); // if you get a connection, report back via serial: if (client.connect(server, 80)) { Serial.println("connected to server"); // Make a HTTP request: client.println("GET /search?q=ameba HTTP/1.1"); client.println("Host: www.google.com"); client.println("Connection: close"); client.println(); }}void loop() { // if there are incoming bytes available // from the server, read them and print them: while (client.available()) { char c = client.read(); Serial.write(c); } // if the server's disconnected, stop the client: if (!client.connected()) { Serial.println(); Serial.println("disconnecting from server."); client.stop(); // do nothing forevermore: while (true); }}void printWifiStatus() { // print the SSID of the network you're attached to: Serial.print("SSID: "); Serial.println(WiFi.SSID()); // print your WiFi shield's IP address: IPAddress ip = WiFi.localIP(); Serial.print("IP Address: "); Serial.println(ip); // print the received signal strength: long rssi = WiFi.RSSI(); Serial.print("signal strength (RSSI):"); Serial.print(rssi); Serial.println(" dBm");} |

WiFiWebClient**程式重點解說**

* #include <WiFi.h> 使用網路必要函數
* uint8\_t MacData[6]; 儲存 MAC資料
* GetWifiMac() 取得MAC函數
* WiFi.status(); 顯示WIFI狀態
* printWifiStatus(); 列印網路狀態
* client.connect(server, 80) 連到Server(用port80)
* client.println(“GET /search?q=ameba HTTP/1.1”); 送給伺服器端資料
* client.available() 連線對象要送資料
* char c = client.read(); 讀取連線對象要送資料

 