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HTTP Client

This example for a Yún device shows how create a basic HTTP client that connects to the internet and downloads content. In this case, you'll connect to the Arduino website and download a version of the logo as ASCII text.

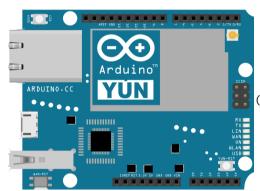
Open the Serial Monitor in the IDE once you've programmed the board.

Hardware Required

- Yún board or shield
- a wireless network connection to the internet

Circuit

There is no circuit for this example.



(//www.arduino.cc/en/uploads/Tutorial/Yun_Fritzing.png)

image developed using Fritzing (http://www.fritzing.org). For more circuit examples, see the Fritzing project page (http://fritzing.org/projects/)

Code

Include both the Bridge and HttpClient libraries

```
#include <Bridge.h>
#include <HttpClient.h>
```

[Get Code] (//www.arduino.cc/en/Tutorial/HttpClient?action=sourceblock&num=2)

In setup() start Bridge, and wait for a serial connection before going into loop().

```
void setup() {
  pinMode(13, OUTPUT);
  digitalWrite(13, LOW);
  Bridge.begin();
  Serial.begin(9600);
  while(!Serial);
}
```

[Get Code] (//www.arduino.cc/en/Tutorial/HttpClient?action=sourceblock&num=3)

In loop(), create a named instance of HttpClient, and call a URL with client.get(url).

```
void loop() {
  HttpClient client;
  client.get("http://www.arduino.cc/asciilogo.txt");
```

[Get Code] (//www.arduino.cc/en/Tutorial/HttpClient?action=sourceblock&num=4)

```
while (client.available()) {
     char c = client.read();
     Serial.print(c);
   Serial.flush();
   delay(5000);
 }
                                                      [Get Code] (//www.arduino.cc/en/Tutorial/HttpClient?action=sourceblock&num=5)
The complete sketch is below:
   Yún HTTP Client
  This example for the YunShield/Yún shows how create a basic
  HTTP client that connects to the internet and downloads
  content. In this case, you'll connect to the Arduino
  website and download a version of the logo as ASCII text.
  created by Tom igoe
 May 2013
  This example code is in the public domain.
  http://www.arduino.cc/en/Tutorial/HttpClient
 #include <Bridge.h>
 #include <HttpClient.h>
 void setup() {
   // Bridge takes about two seconds to start up
   // it can be helpful to use the on-board LED
   // as an indicator for when it has initialized
  pinMode(13, OUTPUT);
  digitalWrite(13, LOW);
   Bridge.begin();
  digitalWrite(13, HIGH);
   SerialUSB.begin(9600);
   while (!SerialUSB); // wait for a serial connection
 }
 void loop() {
   // Initialize the client library
   HttpClient client;
   // Make a HTTP request:
   client.get("http://www.arduino.cc/asciilogo.txt");
   // if there are incoming bytes available
   // from the server, read them and print them:
   while (client.available()) {
     char c = client.read();
     SerialUSB.print(c);
   SerialUSB.flush();
   delay(5000);
                                     [Get Code] (//www.arduino.cc/en/Tutorial/HttpClient?action=sourceblock&num=1)
```

See Also

- Bridge Library (//www.arduino.cc/en/Reference/YunBridgeLibrary) Your reference to the Bridge Library
- Bridge (//www.arduino.cc/en/Tutorial/Bridge) Simple REST style calls to access analog and digital pins
- Console Ascii Table (//www.arduino.cc/en/Tutorial/ConsoleAsciiTable) A complete ASCII table printed to the Console
- Console Pixel (//www.arduino.cc/en/Tutorial/ConsolePixel) Turn an LED on and off through the Console
- Console Read (//www.arduino.cc/en/Tutorial/ConsoleRead) Read data coming from bridge using the Console.read() function

- Data Logger (//www.arduino.cc/en/Tutorial/YunDatalogger) - Log data from three analog sensors to an SD card.
&SCOPE=PROFILE:CORE%20PROFILE:PUBLIC&RESPONSE_TYPE=TOKEN&REDIRECT_URI=HTTPS%3A%2F%2FWWW.ARDUINO.CC)
- File Write (//www.arduino.cc/en/Tutorial/FileWriteScript) - How to write file into the Yún filesystem.

- Http Client Console (//www.arduino.cc/en/Tutorial/HttpClientConsole) HTTP client that connects, downloads content and shows it using WiFi and Console.
- Mailbox Read Message (//www.arduino.cc/en/Tutorial/MailboxReadMessage) How to read the messages queue, called Mailbox, using the Bridge library.
- Process (//www.arduino.cc/en/Tutorial/Process) How to run linux processes using an Yún.
- Remote Due Blink (//www.arduino.cc/en/Tutorial/RemoteDueBlink) How to upload remotely a sketch on DUE boards.
- Shell Commands (//www.arduino.cc/en/Tutorial/ShellCommands) How to run linux shell commands using a Yún.
- Temperature Web Panel (//www.arduino.cc/en/Tutorial/TemperatureWebPanel) How to serve data from an analog input via the Yún's built-in webserver.
- Time check (//www.arduino.cc/en/Tutorial/TimeCheck) Gets the time from Linux via Bridge then parses out hours, minutes and seconds.
- WiFi Status (//www.arduino.cc/en/Tutorial/WiFiStatus) Prints information about the status of your wifi connection.
- Yún First Configuration (//www.arduino.cc/en/Tutorial/YunFirstConfig) Easily configure your Yún device using Serial Monitor and
- Serial Terminal (//www.arduino.cc/en/Tutorial/YunSerialTerminal) Use the Yún's 32U4 processor as a serial terminal for the Linux side on the Yún.

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