Wi-Fi Web Server

Description

   This example uses a potentiometer to input a value to A0 and prints the value of the potentiometer in an html browser. We will be using the code provided under the examples on the Arduino* IDE 1.5.3.

Hardware

- Intel® Galileo
- Breadboard
- Potentiometer
- Wires
- Wi-Fi Card

Instructions

1. Follow the instructions on the Wireless Card Tutorial to set up wireless card.
2. Place the potentiometer on the breadboard. *(see circuit below)*
3. Connect pin 1 on the potentiometer to GND on the Galileo board. *(see circuit below)*
4. Connect pin 2 on the potentiometer to A0 on the Galileo board. *(see circuit below)*
5. Connect pin 3 on the potentiometer to 5V on the Galileo board. *(see circuit below)*
6. Connect power supply to the Galileo and USB to USB Client Port on the Galileo.
7. Open Arduino IDE under Tools → Board select Intel® Galileo
8. Under Tools → Serial Port select the Com # where the Galileo is connected to.
9. Under File → Examples → Wifi and select the "WiFiWebServer" example.
10. Modify the code to your network name and network password.
11. Upload to the Galileo by clicking the upload button.
12. Monitor the value of the potentiometer in the Serial Monitor.
13. On a device connected to the same network open a web browser and go the IP Address printed in the serial monitor and observe the value.

Circuit