

Analog Read Serial

Code Club Challenge – 01-04

Setup:

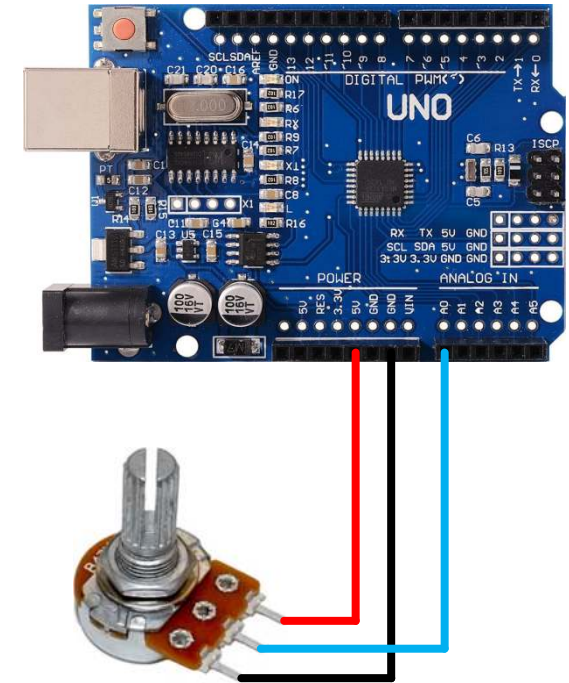
- Load the sketch from the IDE File/Examples/01.Basics/... menu
- Connect up your circuit as shown (disconnected from USB)
- Follow the tutorial at <https://www.arduino.cc/en/Tutorial/AnalogReadSerial>
- Display your results using the Serial Monitor and the Serial Plotter
- Show your understanding of the code by explaining it to your teacher

Code Challenges:

- Increase the baud rate to 19200 to make the data flow more responsively.
- Reverse the output so that 0v == 1023 and 5v == 0
- Present the value as a function of the mid-point. ie. -512 - 0 - +511

Can you:

- Explain the principle parts of a potentiometer and their purpose?
- Explain what is meant by baud rate?
- Give examples of real life applications of this control circuit?



WARNING!

Always disconnect power before making/changing circuit connections