Infrared Sensor

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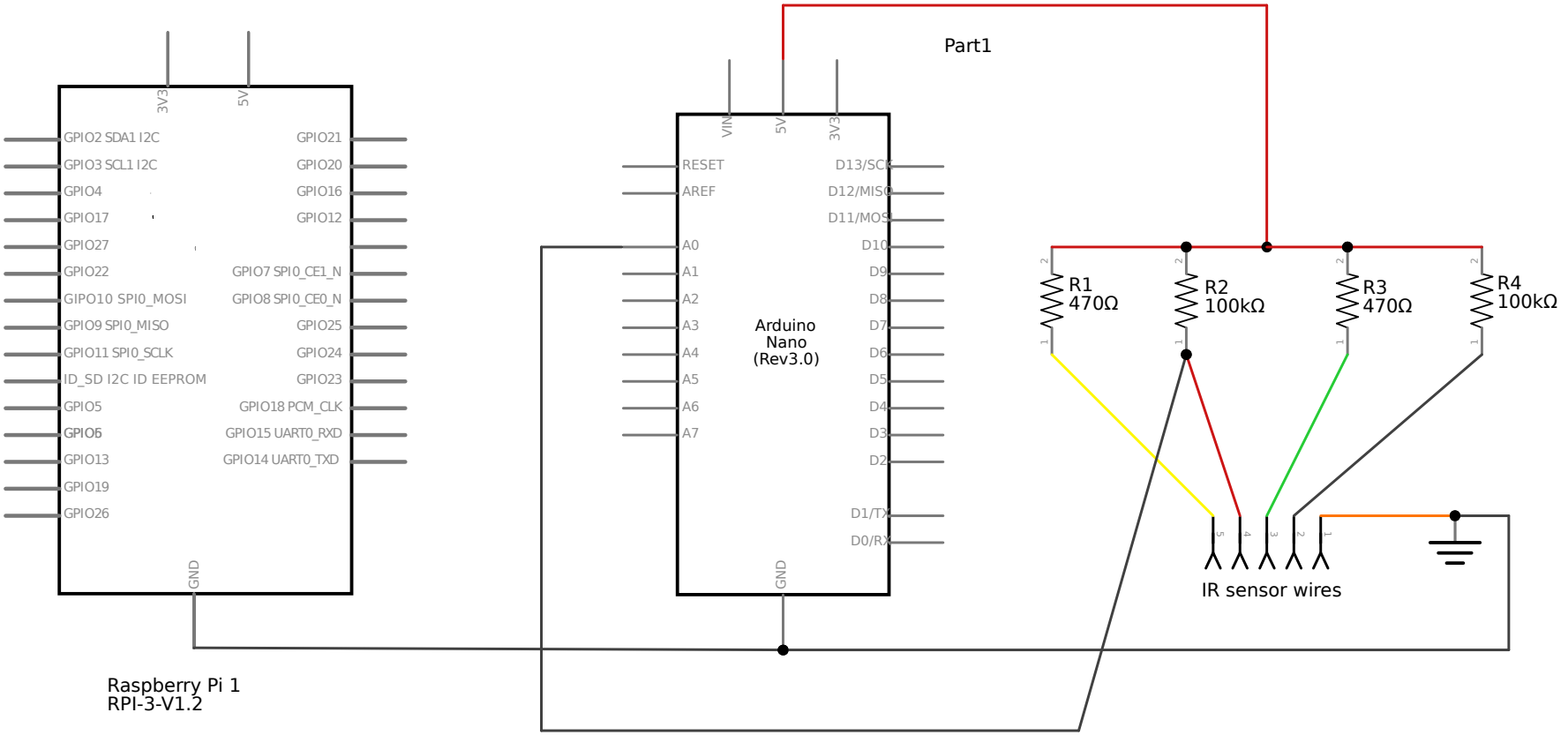
Arduino

- https://www.arduino.cc/
- Download, “Linux ARM (experimental)”
- $ cd ~/Downloads
- $ tar Jxf arduino-1.8.*-linuxarm.tar.xz
- $ cd arduino-1.8.*-linuxarm
- $ ./install.sh
- Start the Arduino IDE, set Board and Port

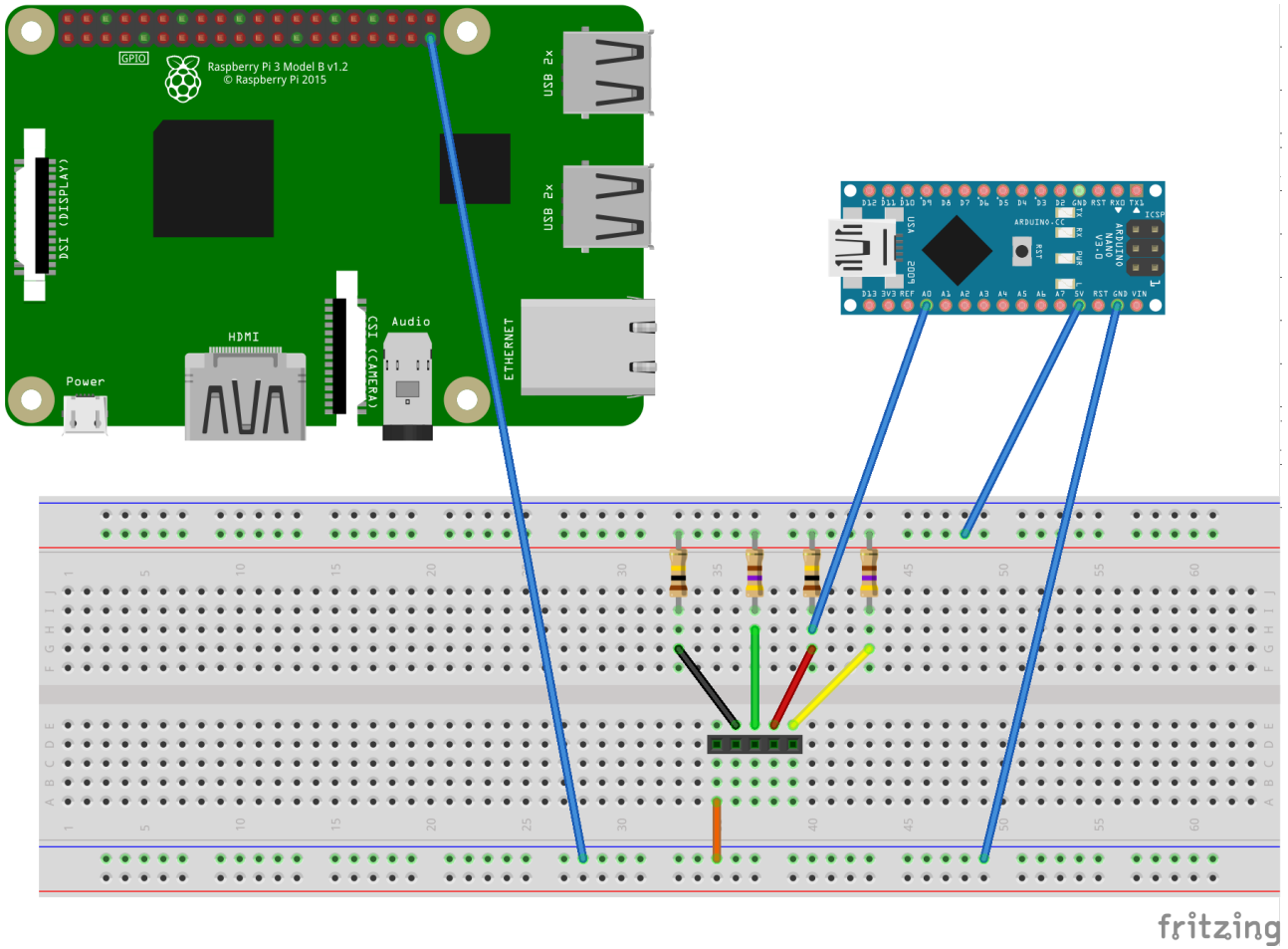
Processing

- https://processing.org/download/
- Select “Linux ARMv6hf” version
- $ cd ~/Downloads
- $ tar -zxf processing-3.3.*-linux-armv6hf.tgz
- $ cd processing-3.3.*
- $ ./install.sh
- $ ./processing
- Set board and port, etc.

R Pi, Arduino, sensor schematic



RPi, Arduino, sensor breadboard



Program The Arduino

- Get AnalogInOutSerial1.ino from github
- Open in Arduino IDE
- Upload to Arduino

Run Processing Program

- Get Sensorserial1.pde from github
- Open in Processing IDE
- Change line with “new Serial...” to have serial port for Arduino (displayed on Arduino IDE)
- Watch sensor values change