Computer

Max

USB

Serial.print()
Serial.read()

Arduino +
Grove Base Shield

Connect an Arduino with a Grove Base Shield to your computer. The serial object (in a special subpatch) will handle communication with the Arduino.

Any component connected to the Grove Base shield is immediatly available through the user interface objects in the main window of the talkToArduino maxpatch.

In addition automatic behaviour can be entered in the my-behaviour subpatch.

Values of connected sensors can be obtained through receive objects.

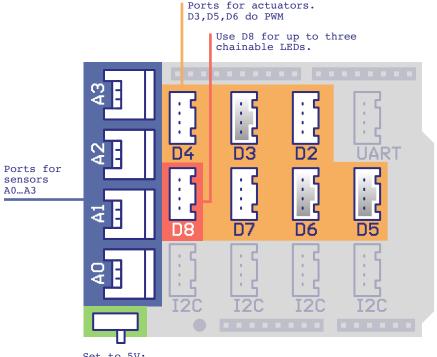Connected actuators can be controlled by sending values to send objects.

In order for this to work you should upload talkToMax.ino to the Arduino – or write your own sketch with similiar functionality.

The serial data sent and received has to be in accordance with this Max patch and the Arduino sketch.

Ports D3, D5 and D6 can dim LEDs, also known as pulse-width modulation (PWM, done through *analogWrite*). They accept values in the range of 0…255.

The other actuator ports D2, D4 and D7 can be set to 1 (=HIGH) or 0 (=LOW).

Send three bytes [0…255] to LED[1…3] to control chainable LEDs connected to pin D8.

Ports for actuators.
D3,D5,D6 do PWM

Use D8 for up to three chainable LEDs.

Ports for sensors
A0…A3

Set to 5V:
Voltage switch

A system Setup Guide

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