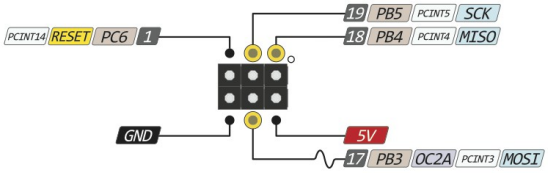
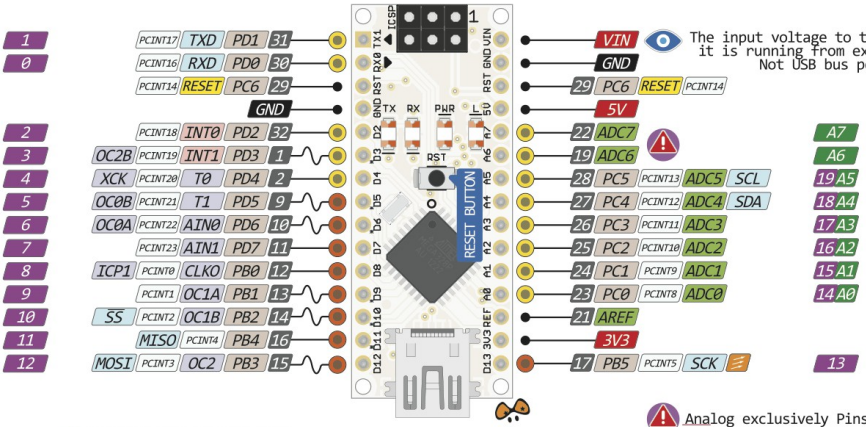
NANO PINOUT





The input voltage to the board when it is running from external power. Not USB bus power.

Analog exclusively Pins

Absolute MAX per pin 40mA
recommended 20mA

Absolute MAX 200mA
for entire package

USB JACK
Mini Type B

The power sum for each pin's group should not exceed 100mA

Setting up the board
Go to **Tools->Board** and select **Arduino Nano**.
Next go to **Tools->Port** and select the correct **COM** port.

Finding the correct COM port
Click the Windows **Start** button and type in the search window the following...
mmc devmgmt.msc
This will start the **Device Manager**.
From within this window you can click on the **Ports** arrow to expand the list.
For this particular board the menu item will be named...
USB-SERIAL CH340(COMXX)
Where **XX** is the port number that has been assigned to the device.
This is the COM port we select when setting the port from **Tools->Port** menu.
Back in the Arduino IDE the current port that will be used for programming is displayed in the bottom right hand corner.

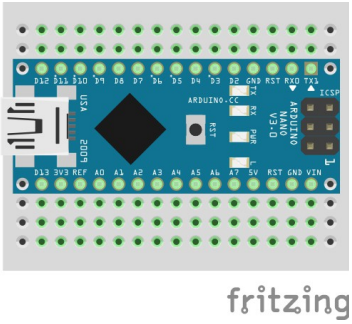
In the supplied folder there are a number of examples to load and try

Examples
1 LED on Board
2 External LED
3 Multiple external LED
4 Single smart LED
5 Multi smart LED
6 Graphic display

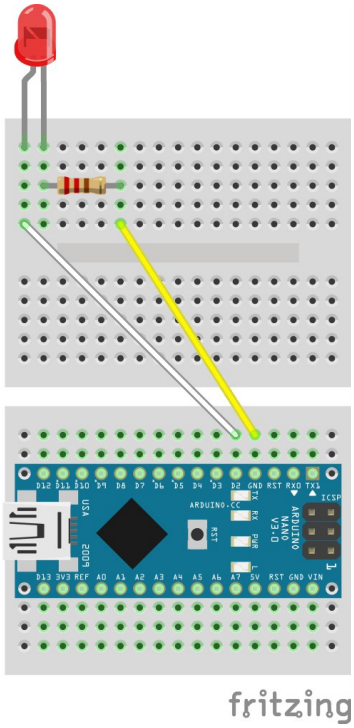
7 Digital input, switch
8 Analogue input, pot
9 Joystick

10 Servo single
11 Ultrasound

Explanation
1 LED on Board
LED flashes at a particular rate
Exercise: Try to make LED flash at a different rate.

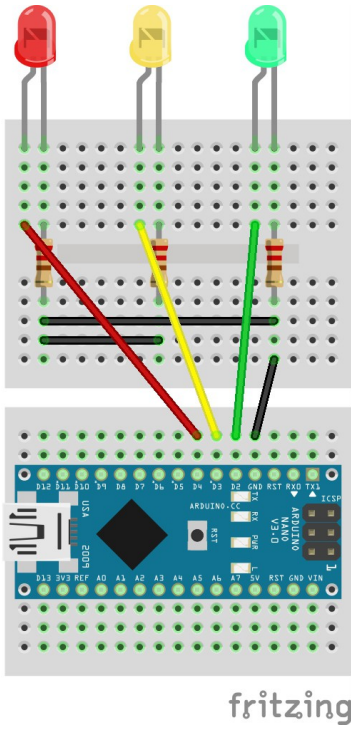


2 External LED
LED flashes at a particular rate
Exercise: Move the LED to new pin.

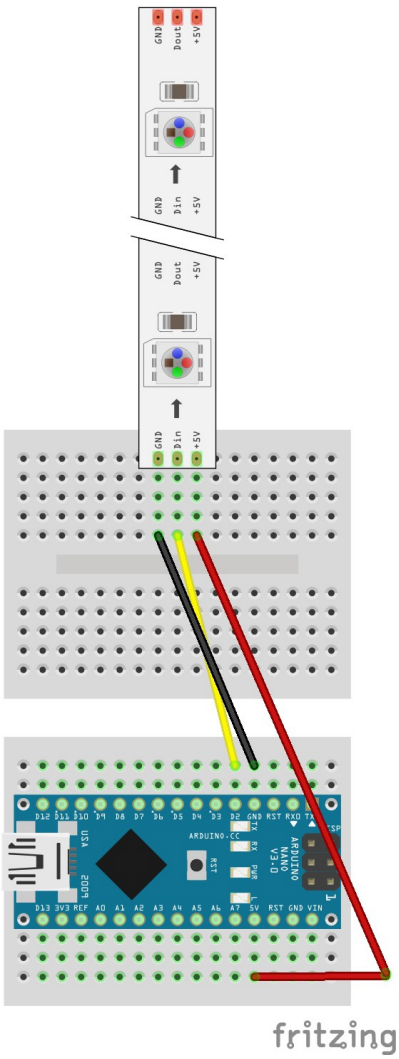


3 Multiple external LED

Turn on and off LED's in a sequence.



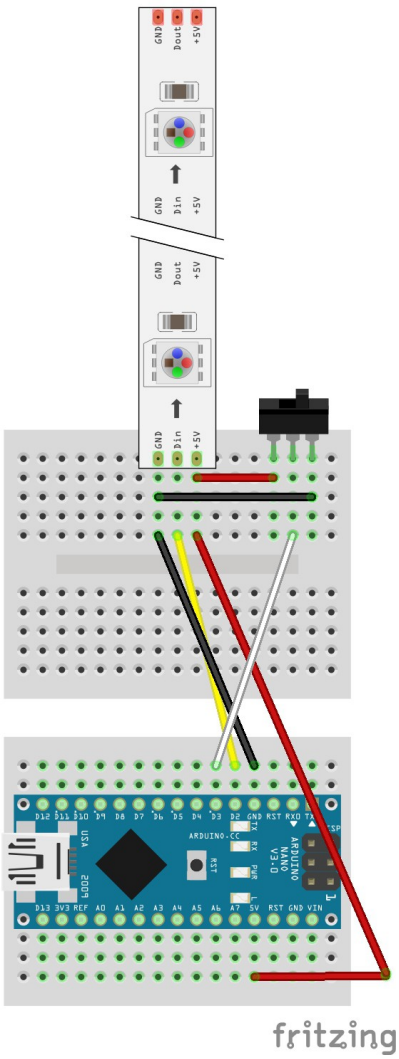
4 Single smart LED
Turn on each smart LED in a row.
Exercise: Change the color of the LED's



5 Multi smart LED

Each time the switch is flicked change the color cycle pattern

Exercise: Make a red cyclone light chaser.

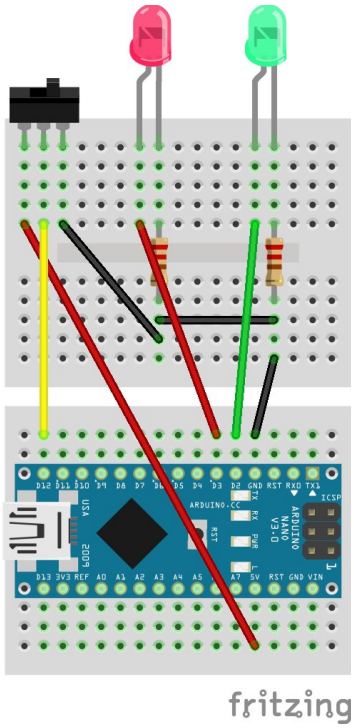


6 Graphic display

Hook up SCL to A5 and SDA to A4.
Also hook up the power lines VCC to +5V and GND.

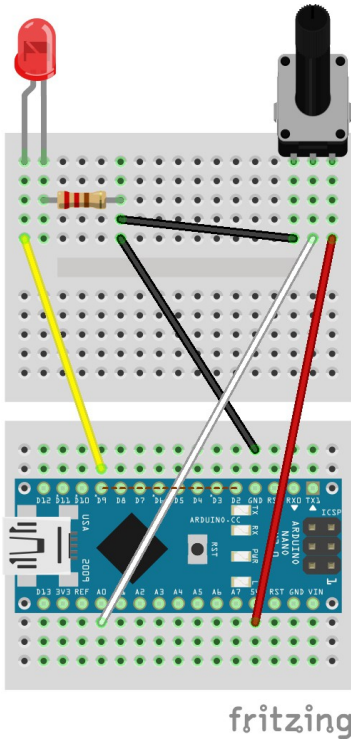
7 Digital input, switch

Use a switch to turn on two different coloured LED's



8 Analogue input, pot

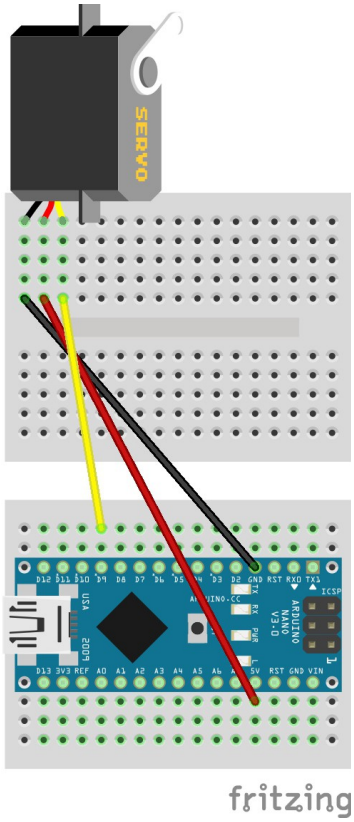
Use a variable resistor to control the brightness of a LED.



9 Joystick

Use the example code to figure out which pins to connect up

10 Servo single



11 Ultrasound