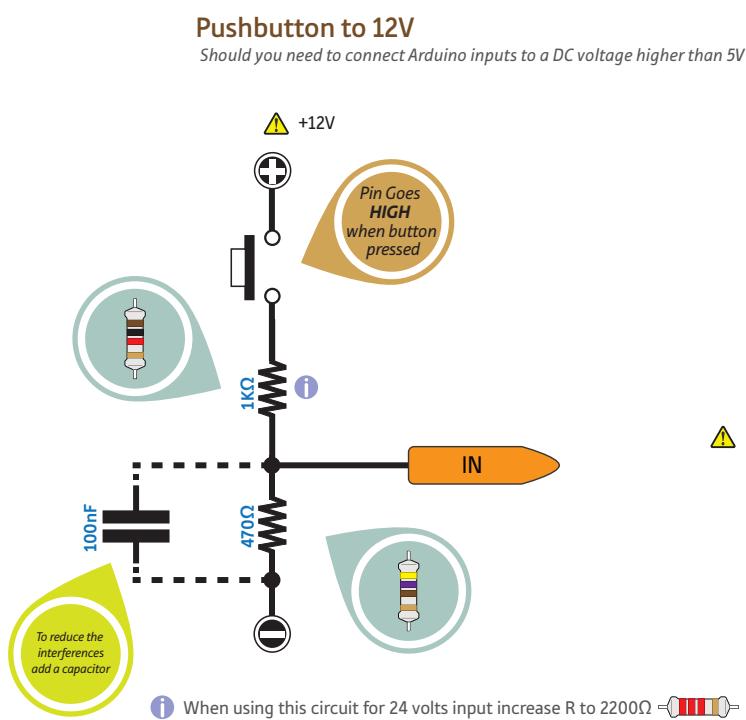
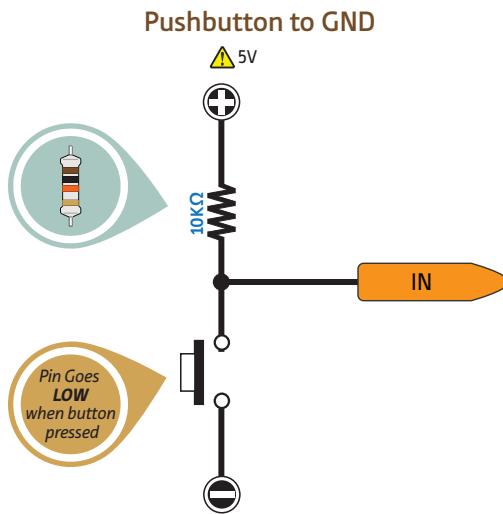


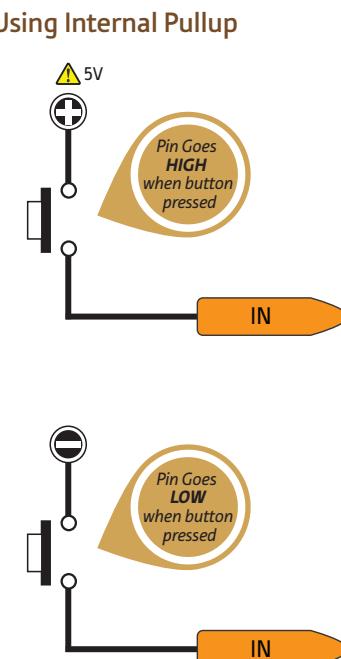
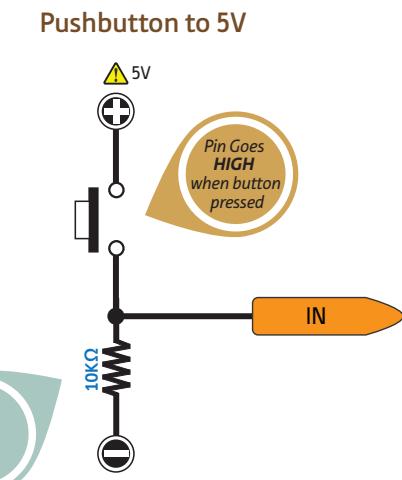
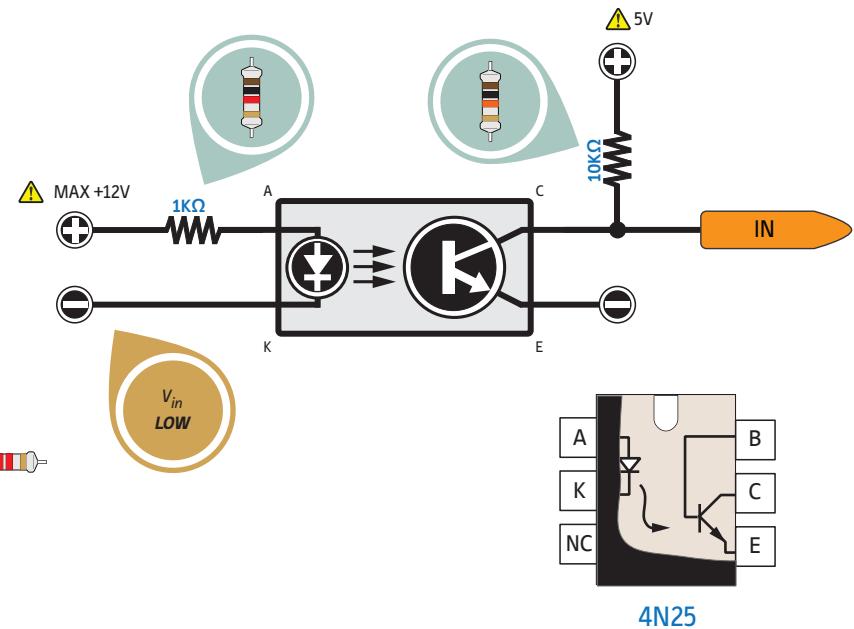
abc

ARDUINO BASIC CONNECTIONS

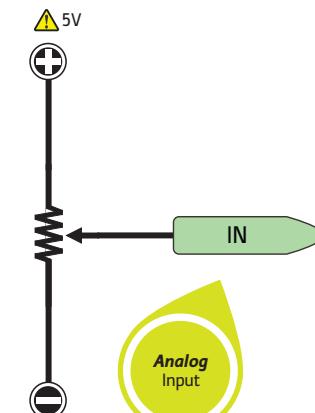




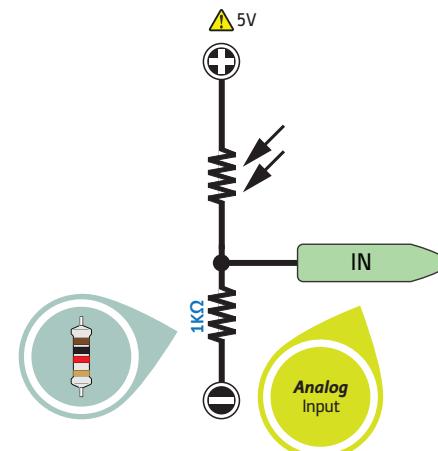
Optocoupled inputs
Used when galvanic separation between external circuitry and Arduino circuit is required

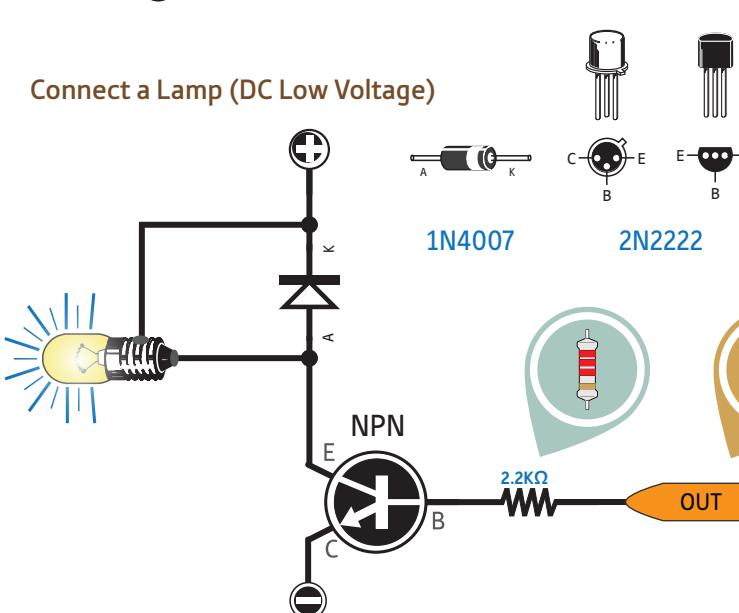
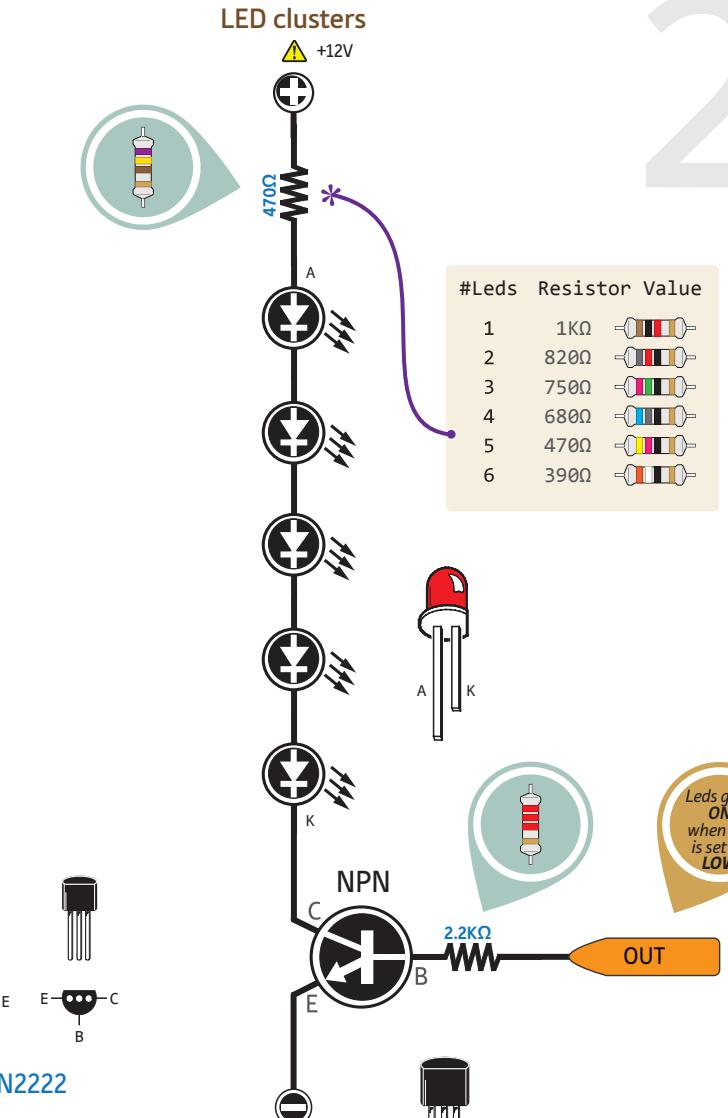
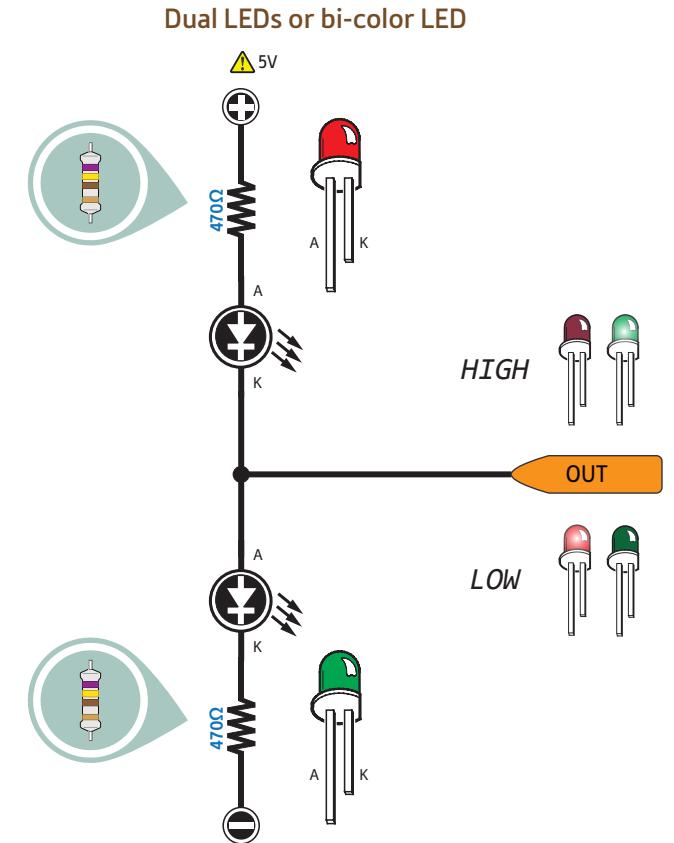
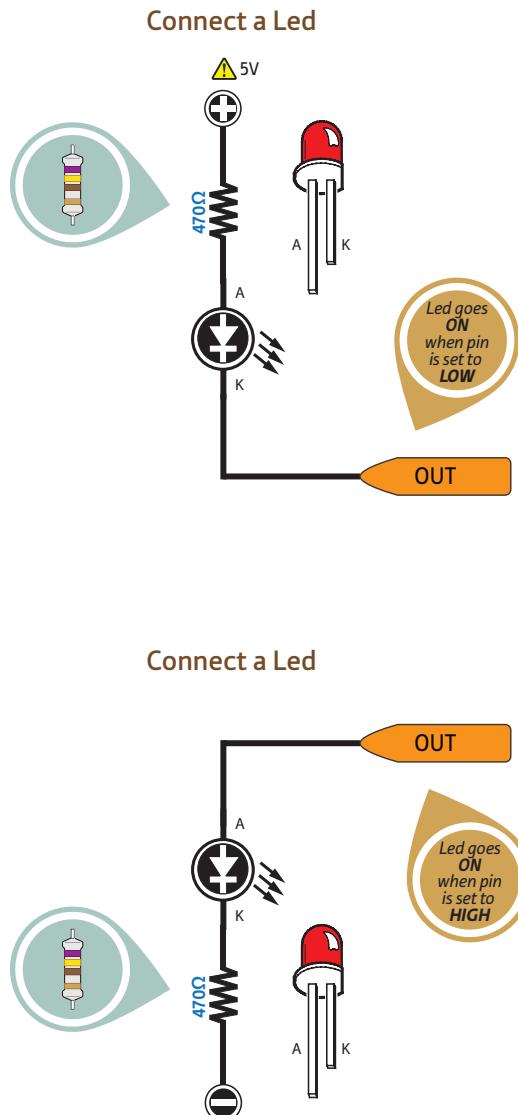


Trimmer or Potentiometer

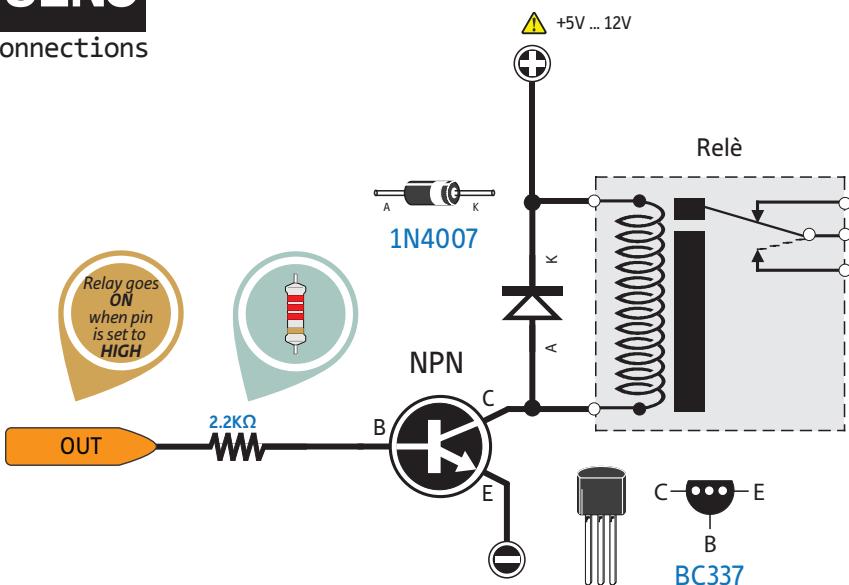


Photoresistor

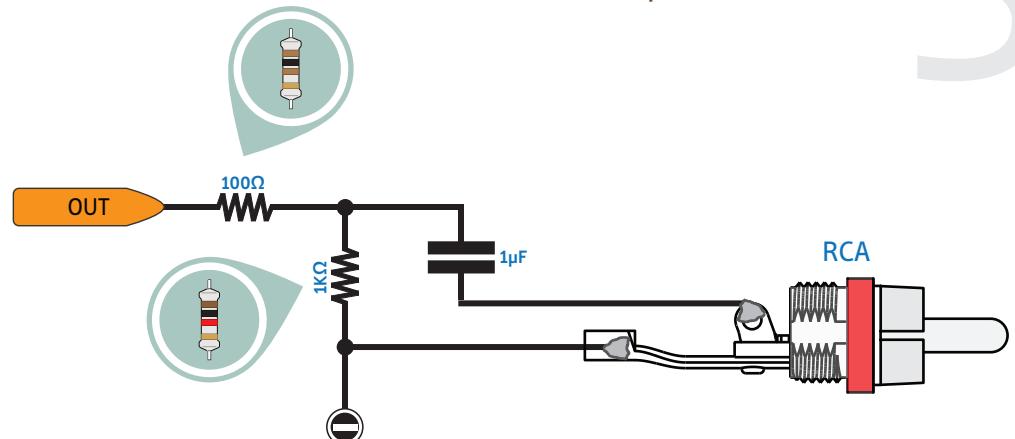




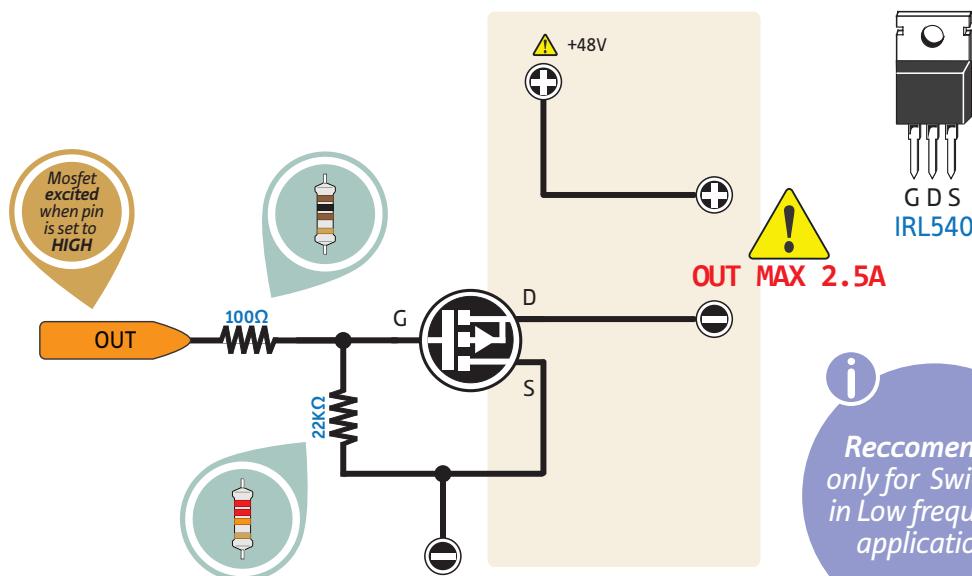
Connect a Relay



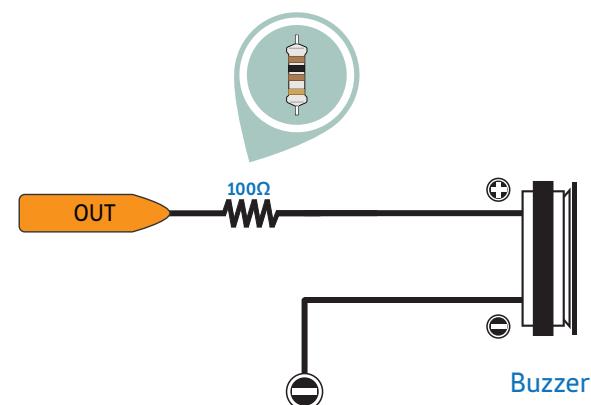
Connect an Audio Amplifier



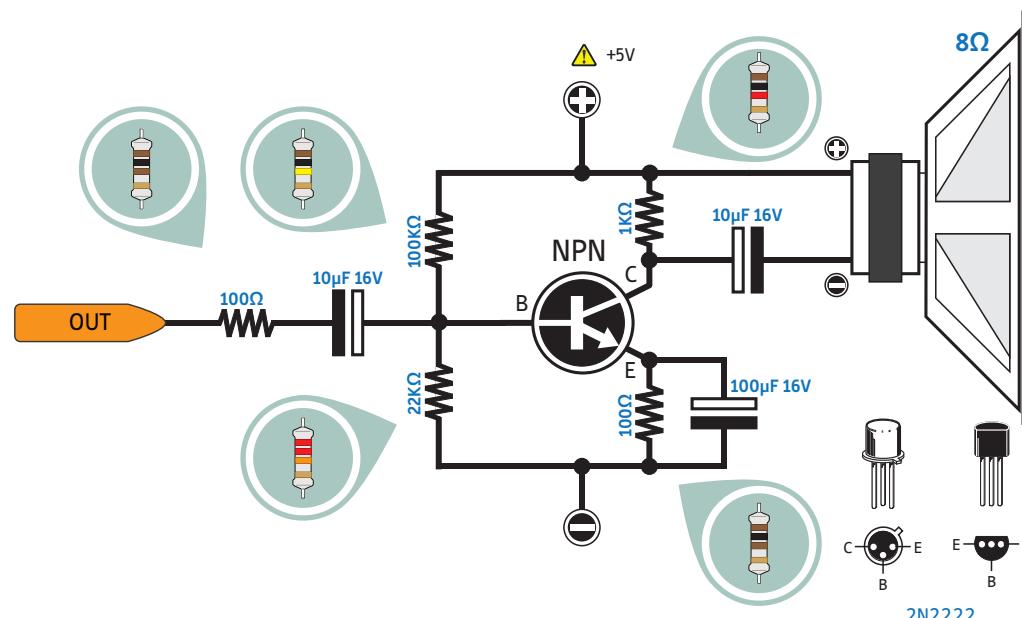
Connect a Mosfet



Connect a Buzzer

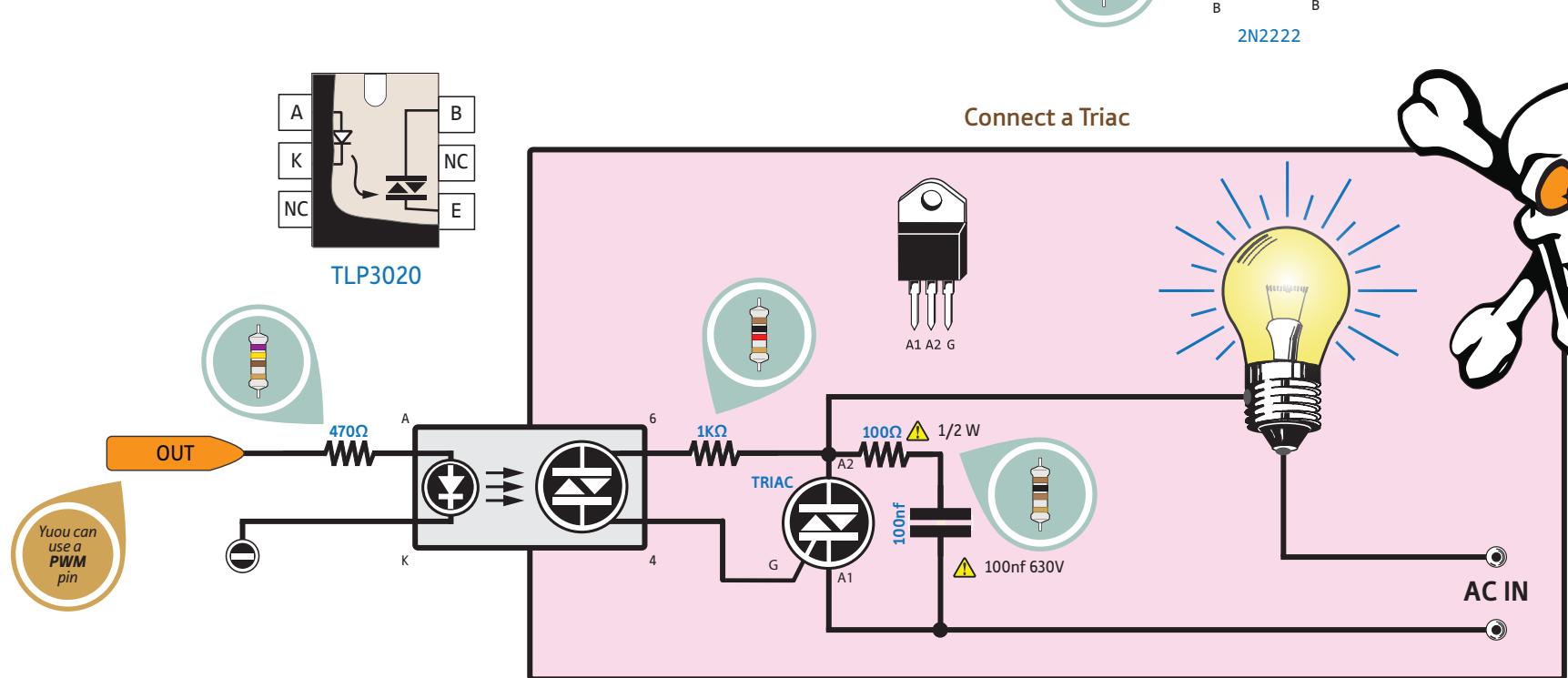


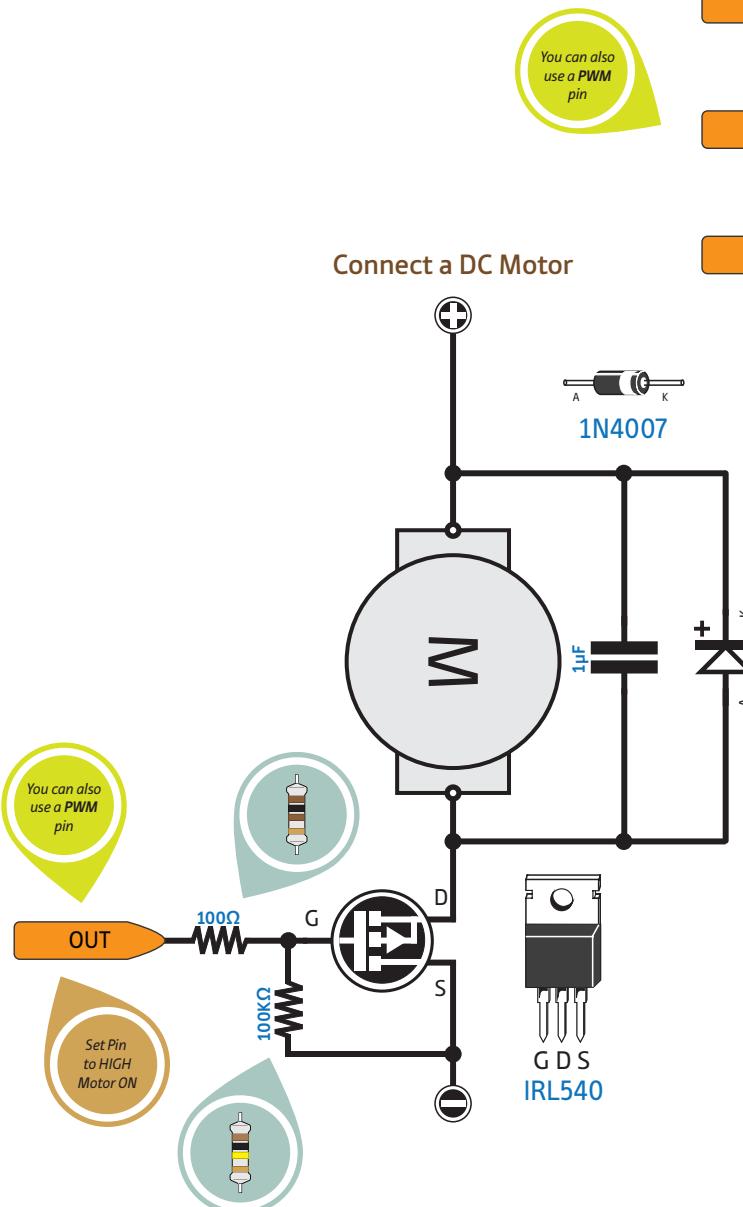
Connect a Speaker



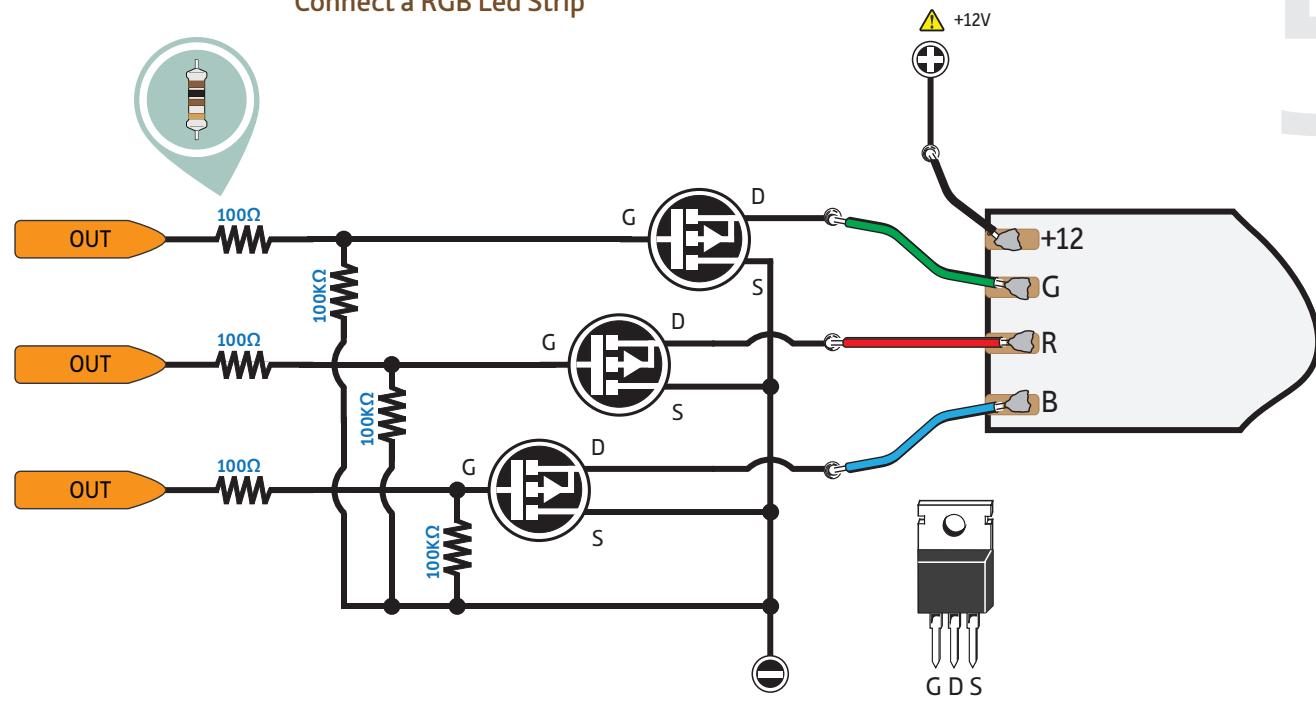
2N2222

Connect a Triac

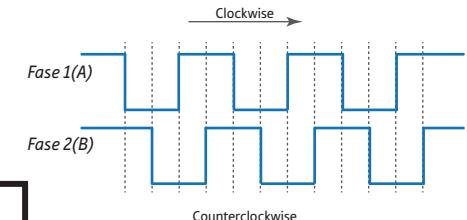
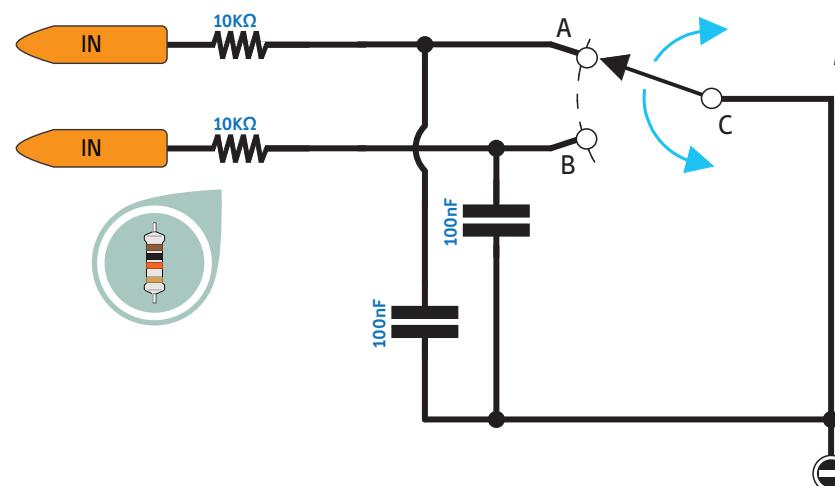




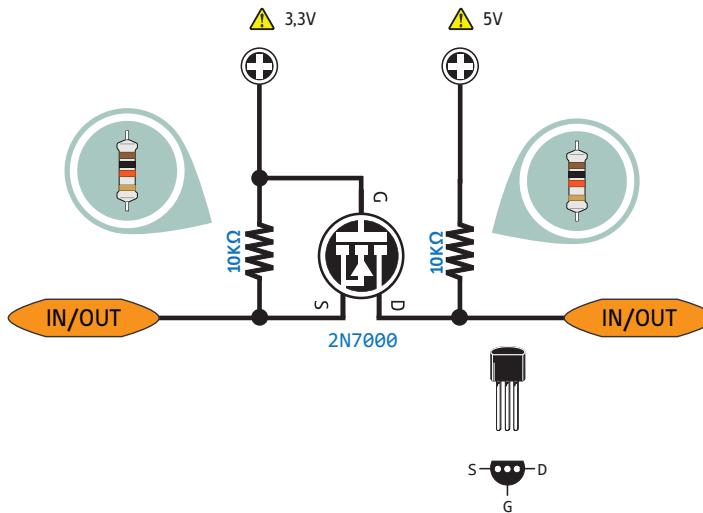
Connect a RGB Led Strip



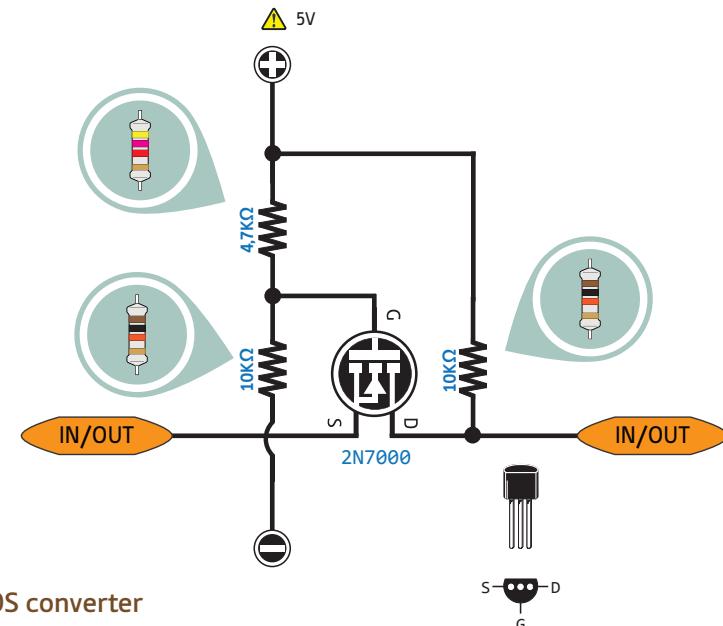
Connect an Encoder



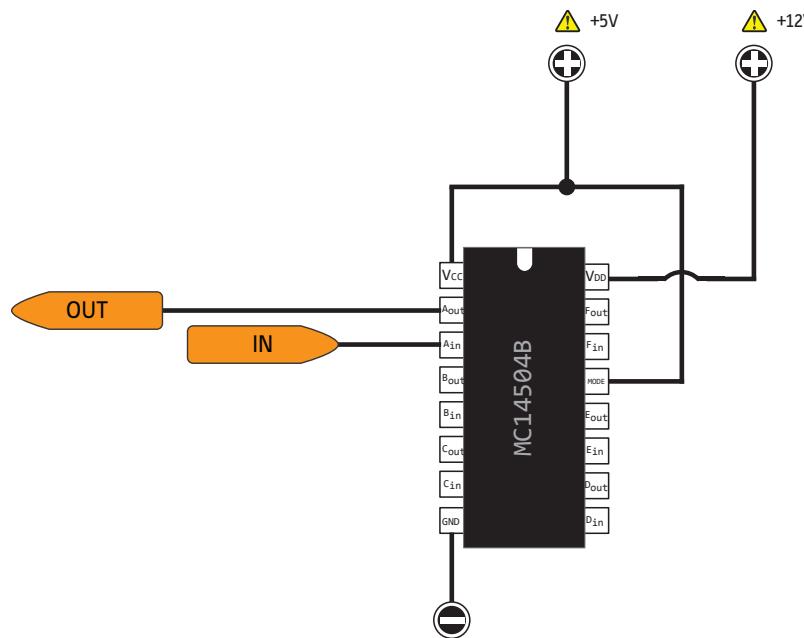
Bi-Directional Voltage Level Converter 3.3V to 5V



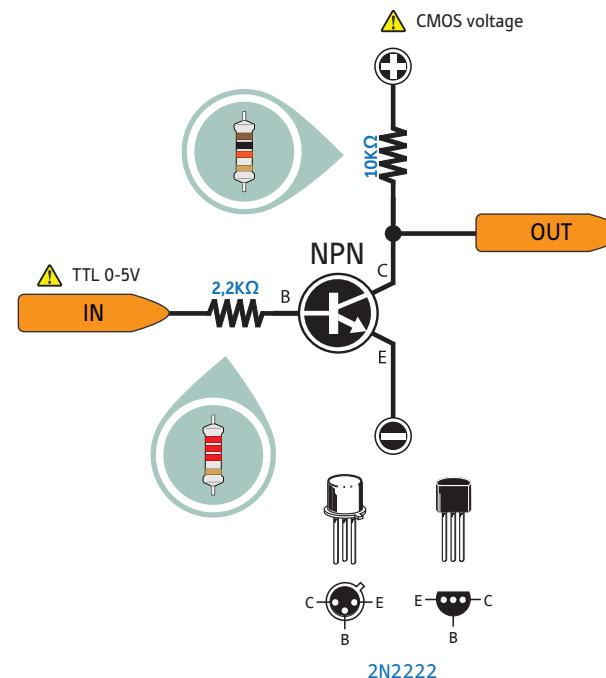
Bi-Directional Voltage Level Converter 3.3V to 5V
with voltage divider



TTL / CMOS converter (6 inputs/outputs)



TTL / CMOS converter



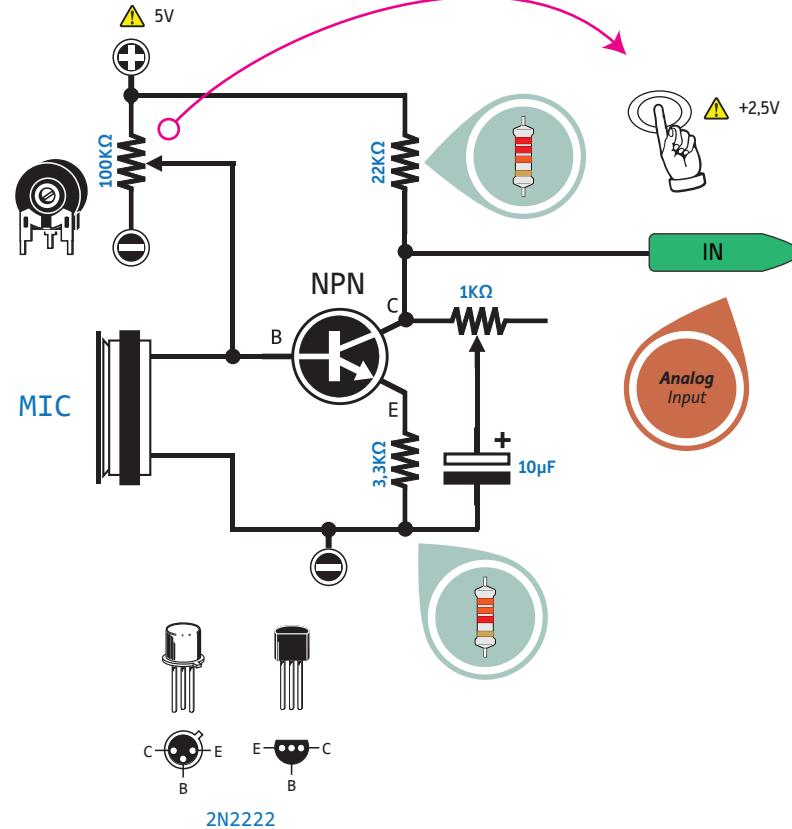
www.pighixxx.com



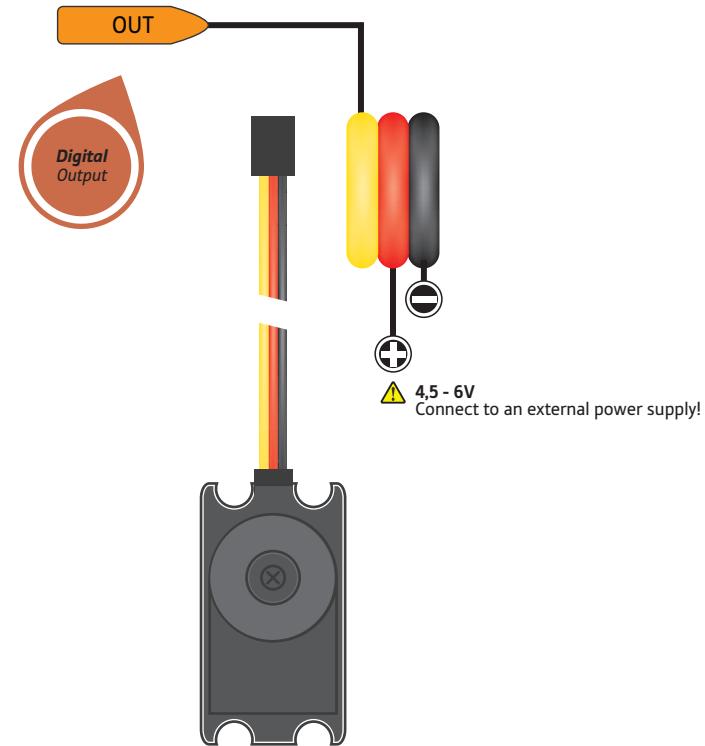
03 APR 2013

ver 1 rev 0

Connect a Microphone



Connect a Servo



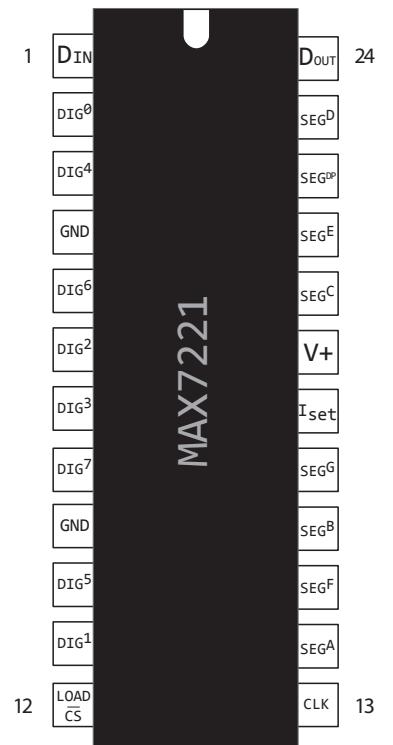
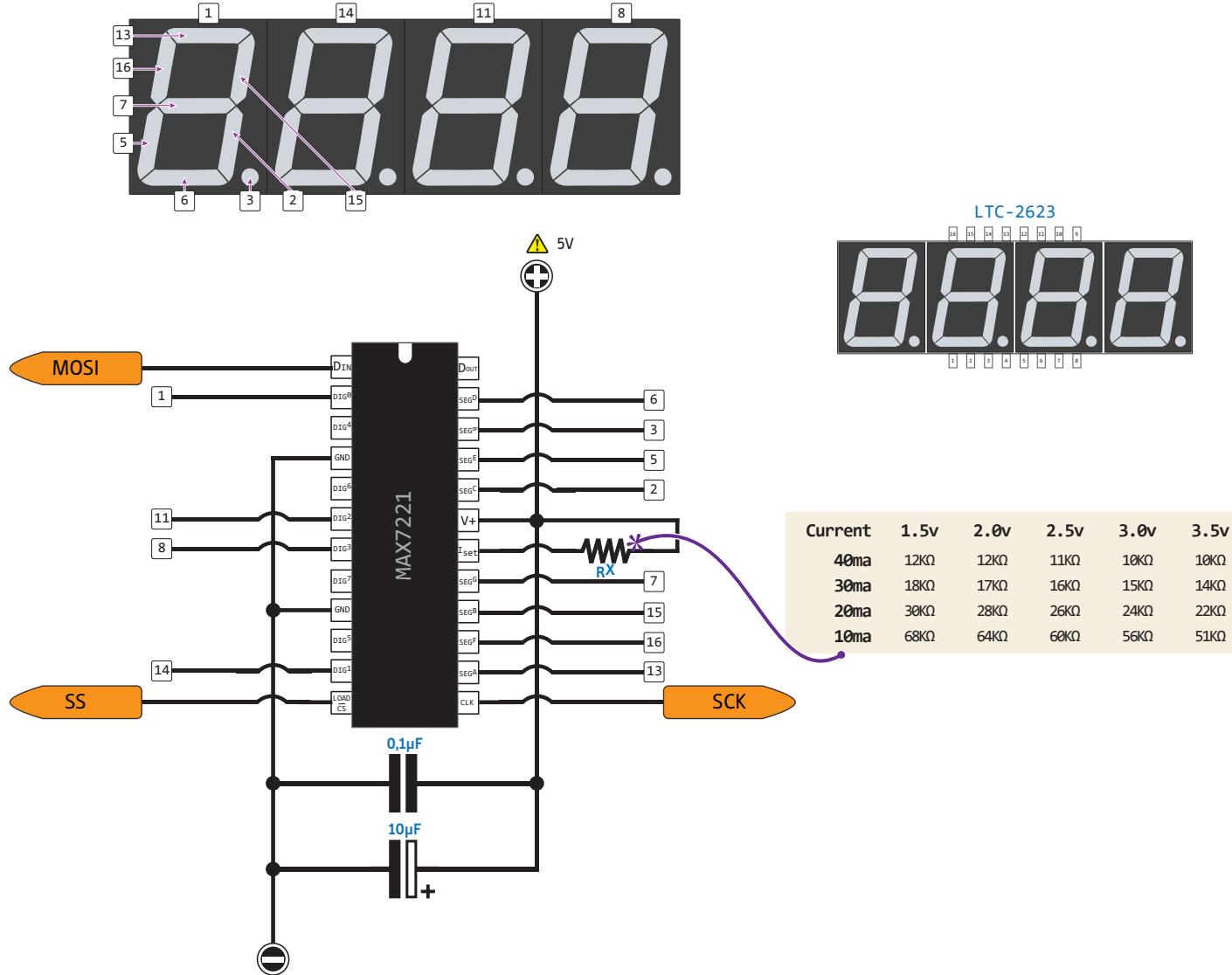
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03 APR 2013

ver 1 rev 0

7 Segments Display (Common Anode) with MAX7221



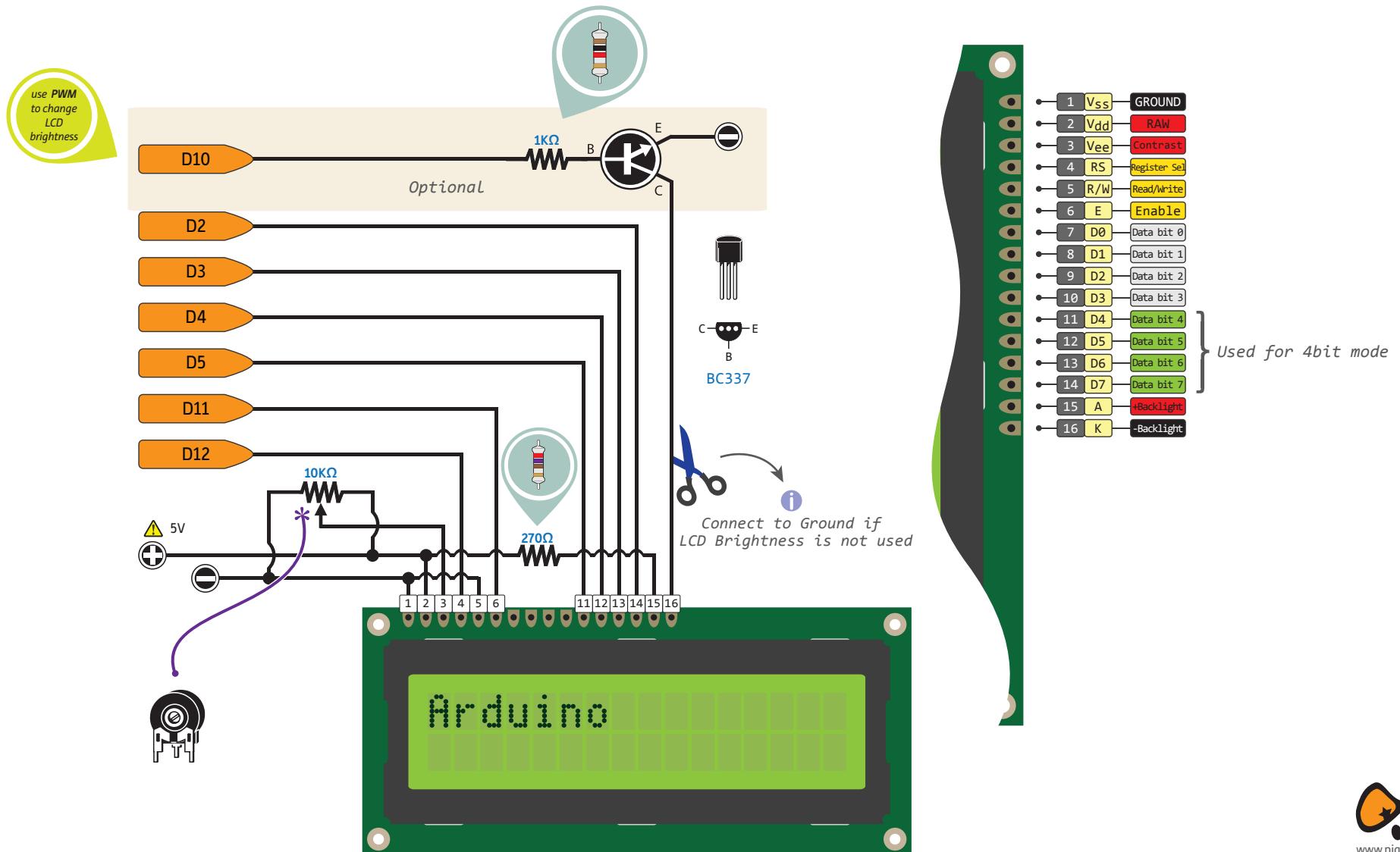
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03 APR 2013

ver 1 rev 0

Connect a LCD HITACHI 44780 compatible



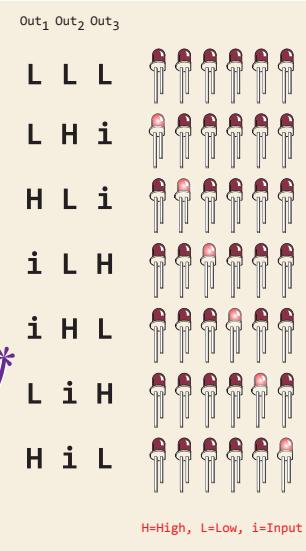
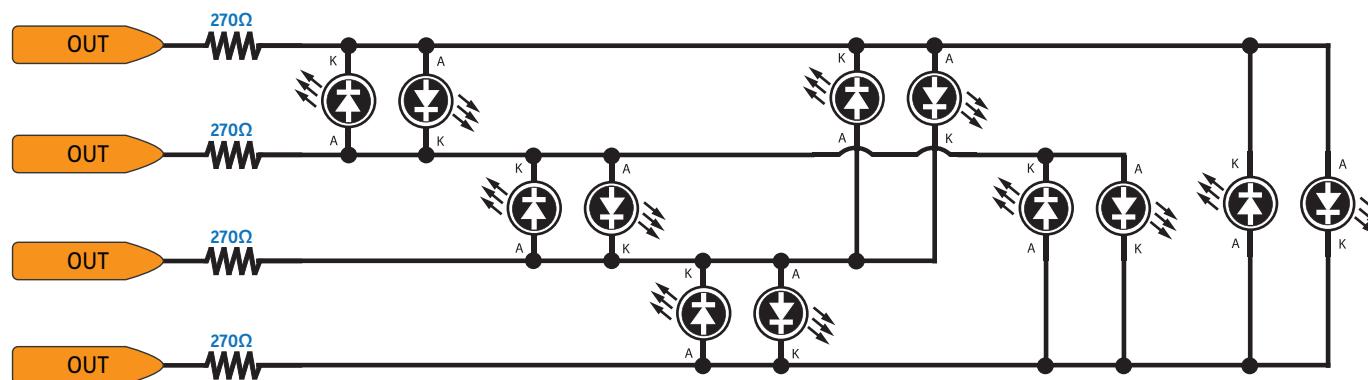
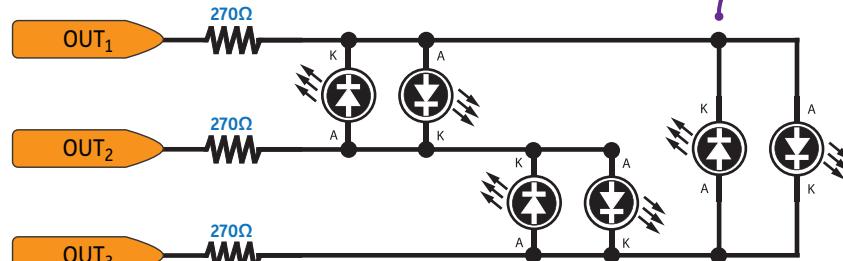
www.pighixxx.com



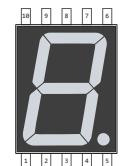
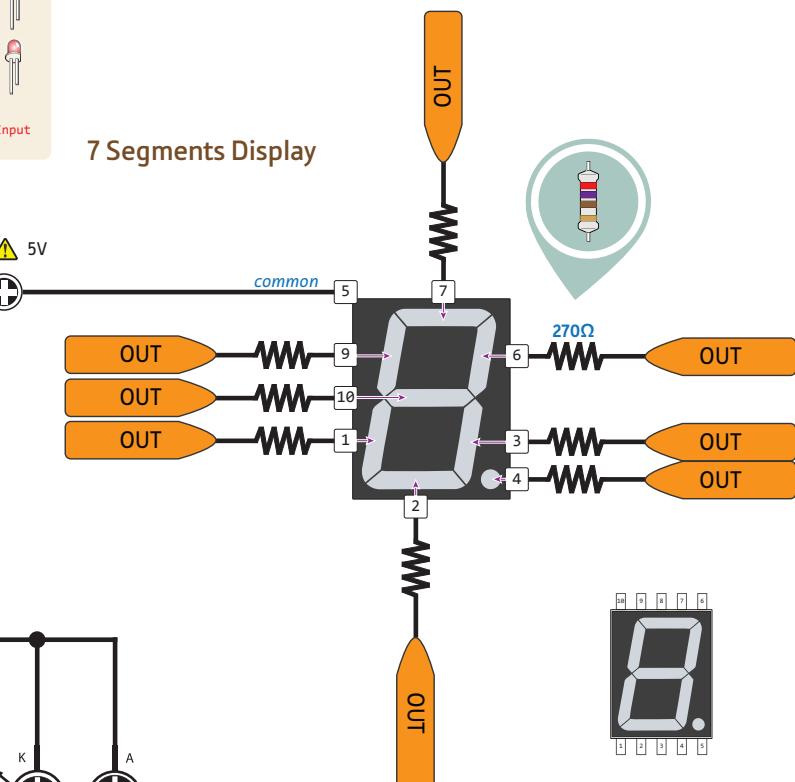
03 APR 2013

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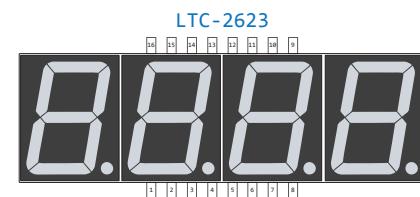
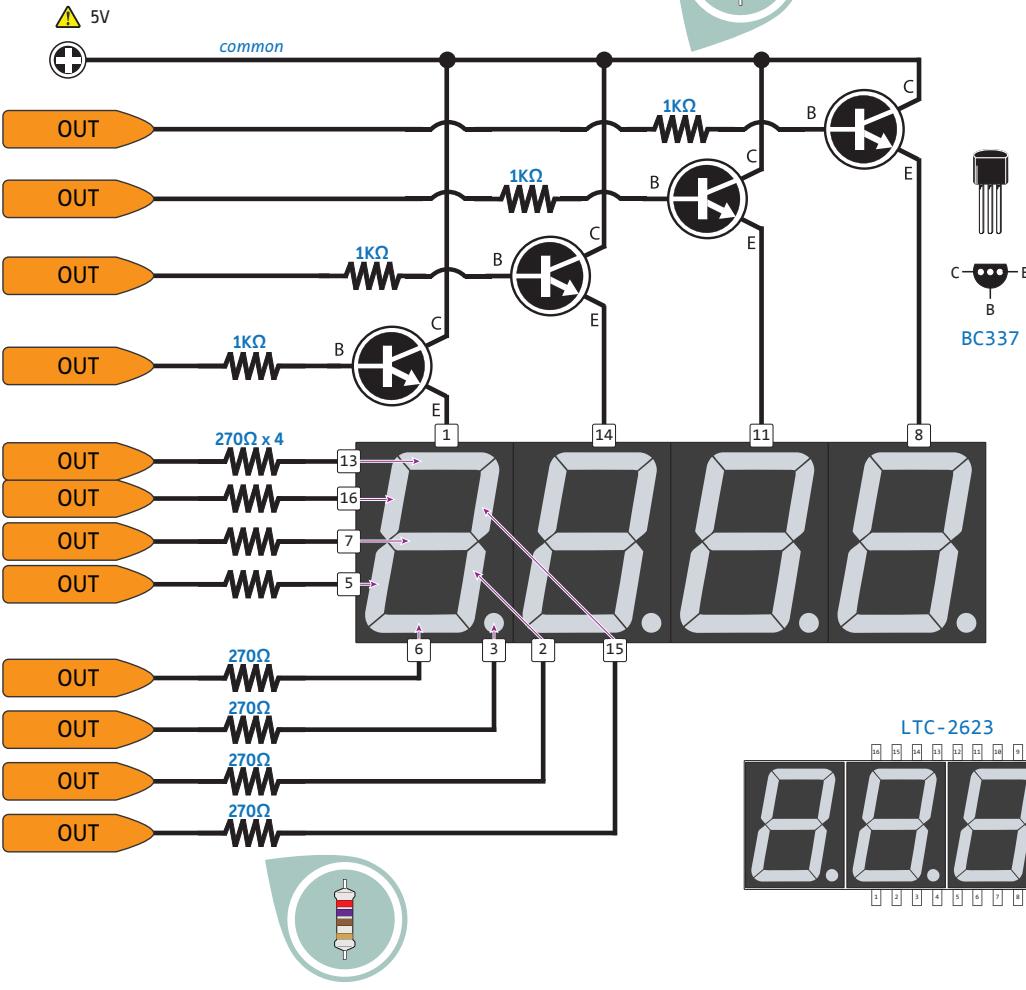
Charlieplexing



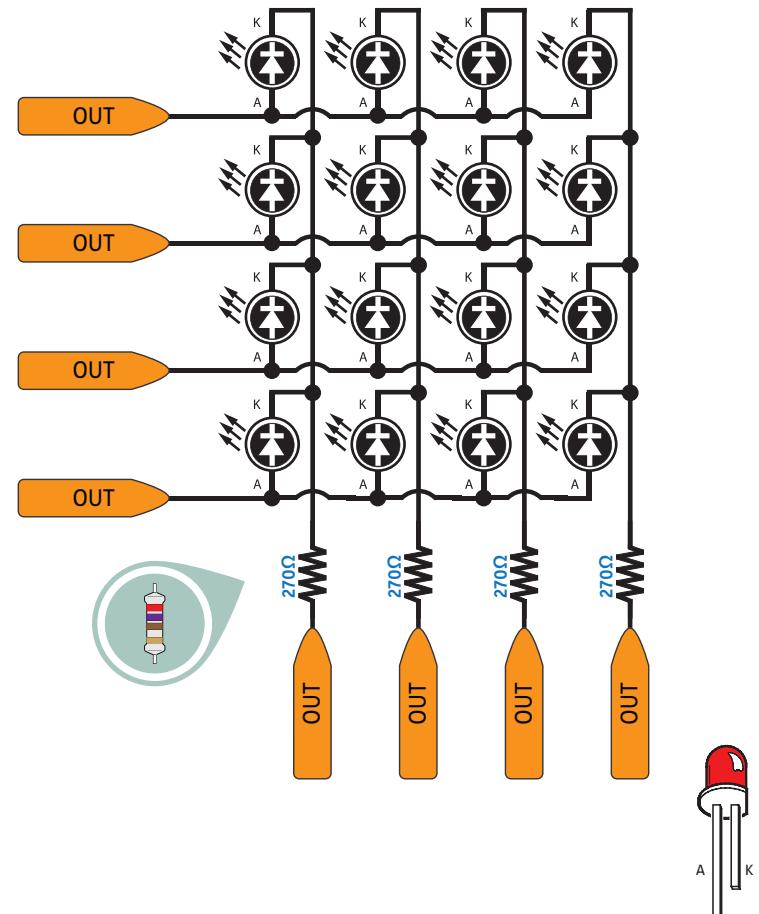
7 Segments Display



7 Segments Display (Common Anode) with Multiplexing



LED Array



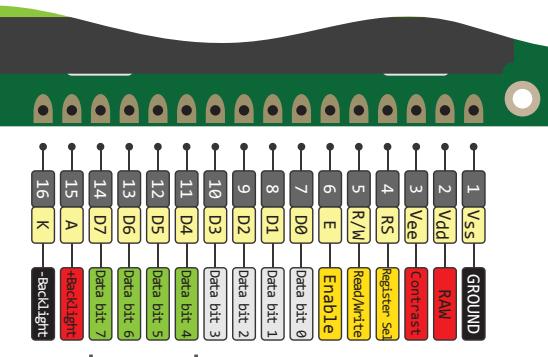
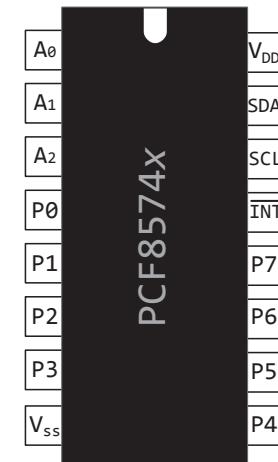
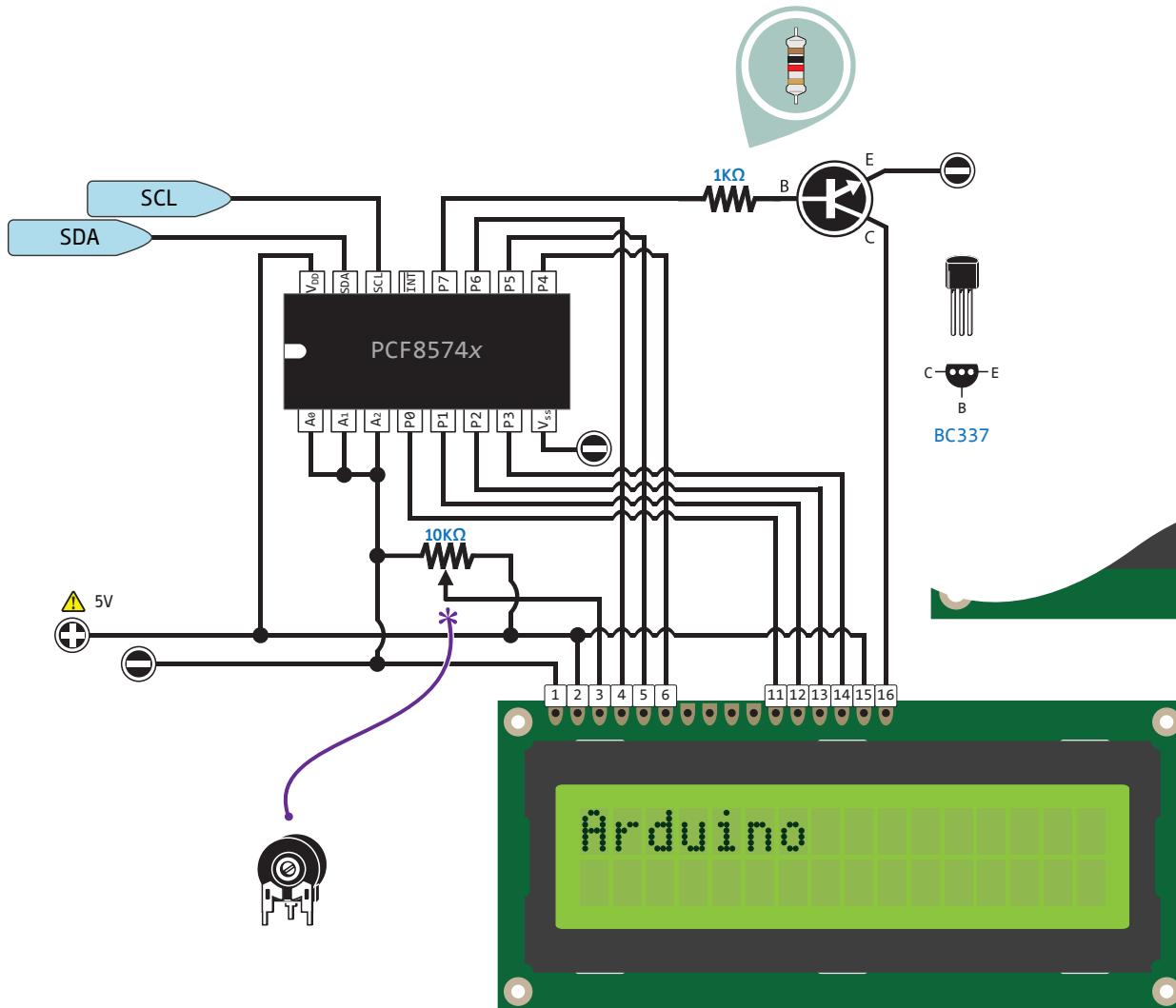
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03 APR 2013

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Connect via I2C a LCD HITACHI 44780 compatible



Used for 4bit mode



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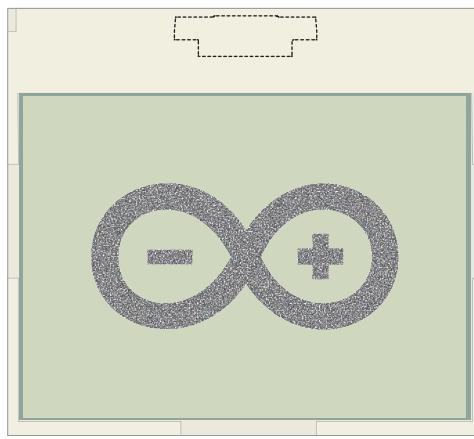


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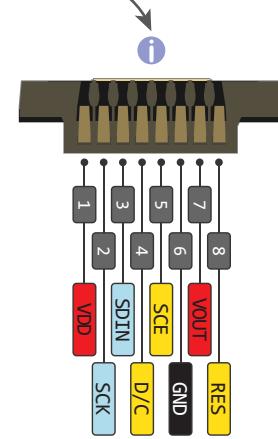
ver 1 rev 0

Connect a NOKIA LCD (Basic)

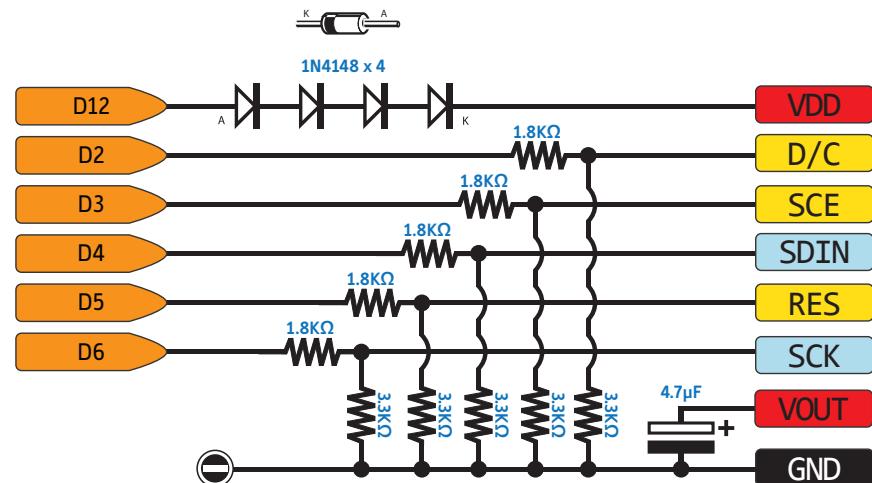
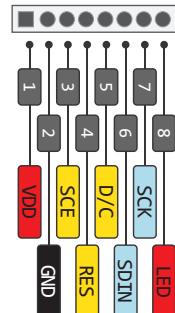
⚠ Only for 5V Arduino



NOKIA 3110



NOKIA 5110



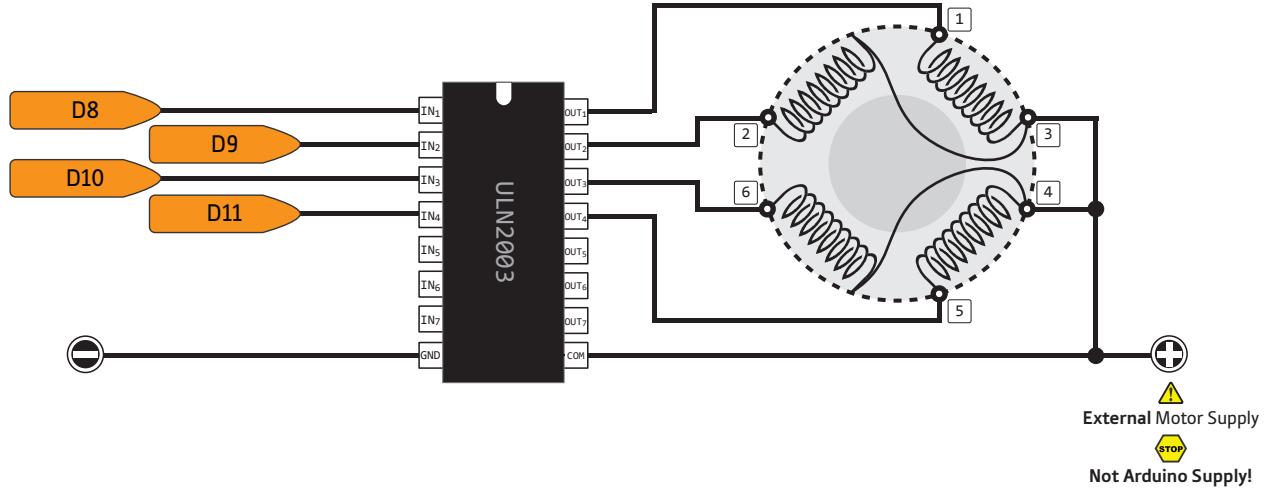
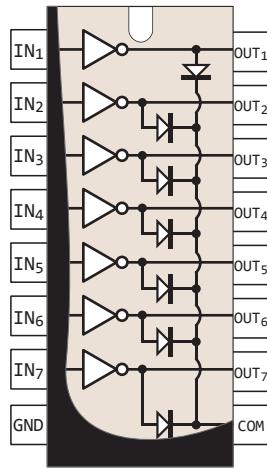
www.pighixxx.com



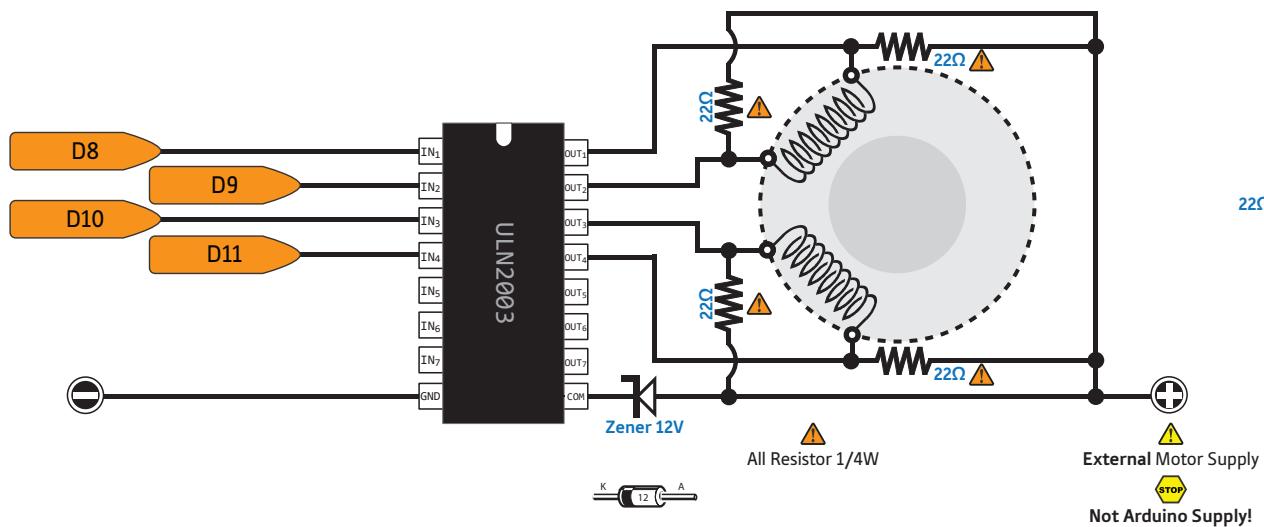
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ver 1 rev 0

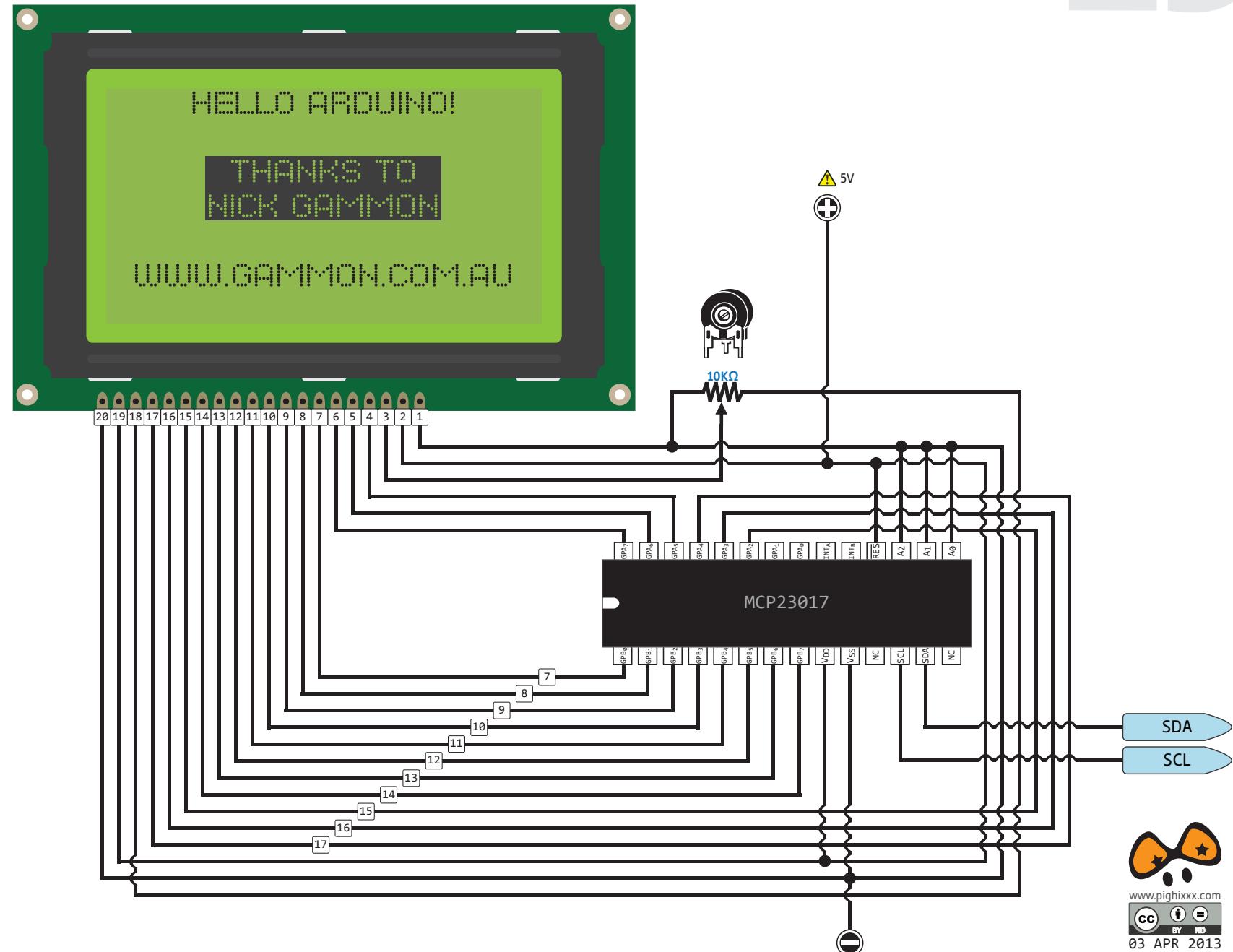
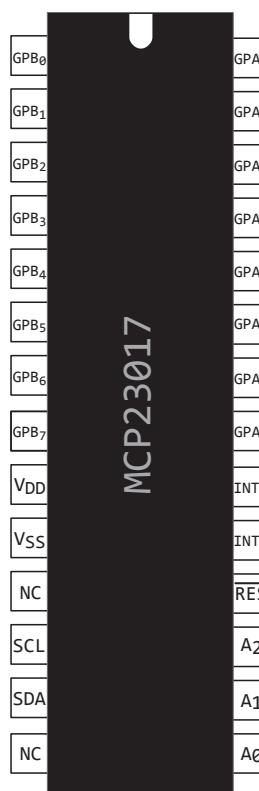
Drive a Unipolar Stepper (Basic 1)



Drive a Bipolar Stepper (Basic 1)



Connect a graphical LCD via I₂C



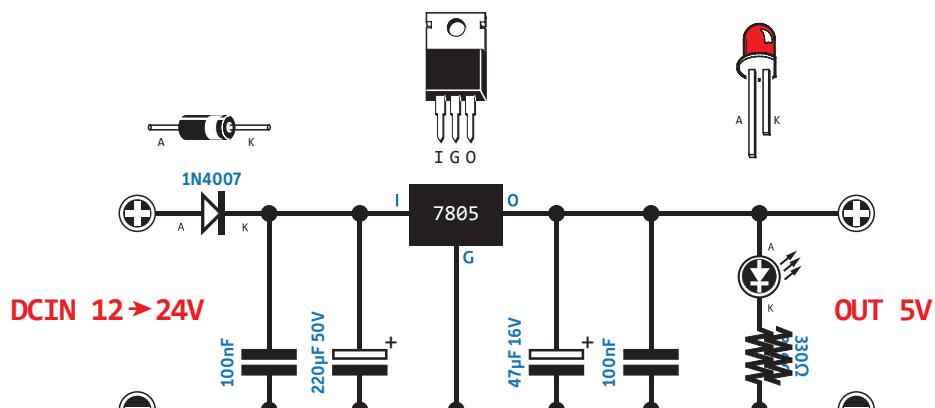
www.pighixxx.com



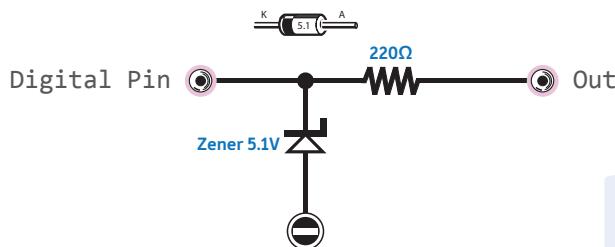
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ver 1 rev 0

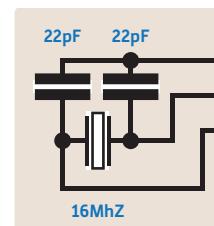
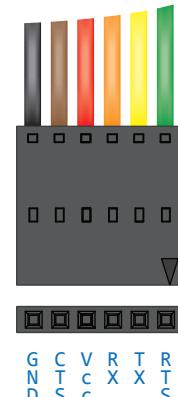
Simple 5V Power Supply



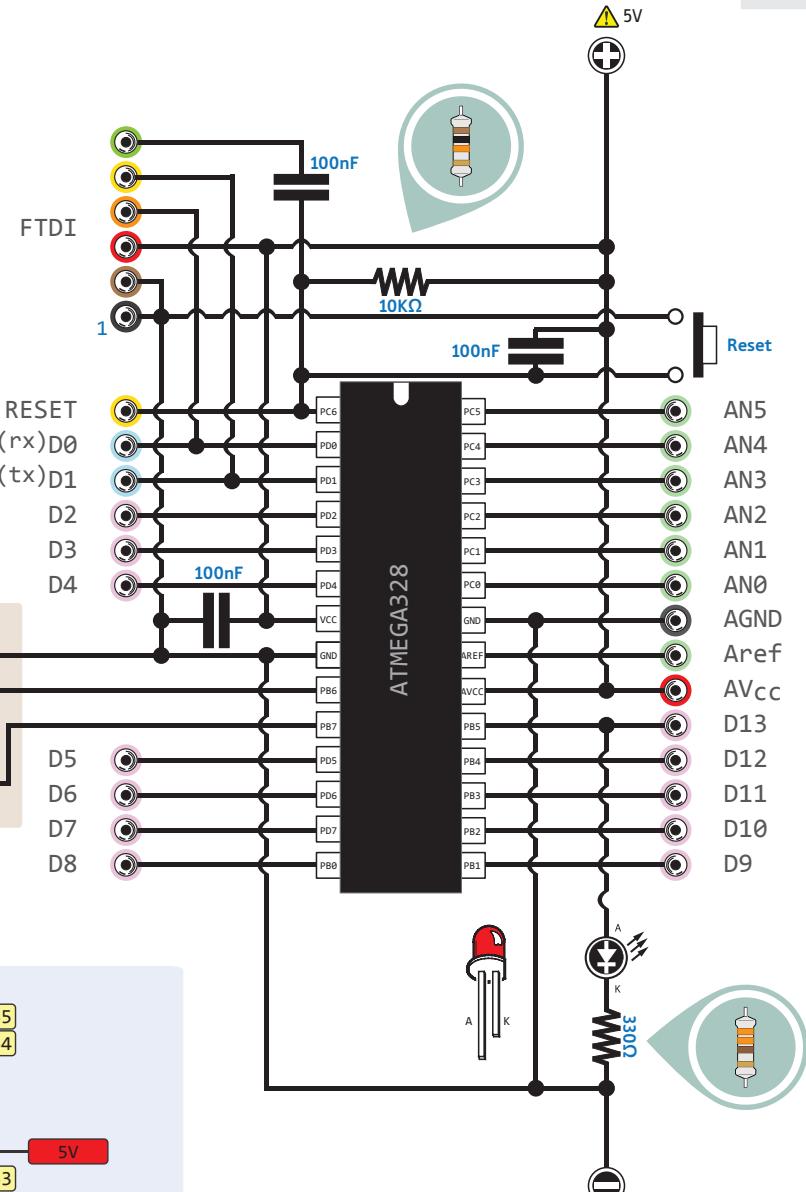
Protect a I/O Pin



FTDI Connector



DIY Arduino



Recommended ICSP pinout

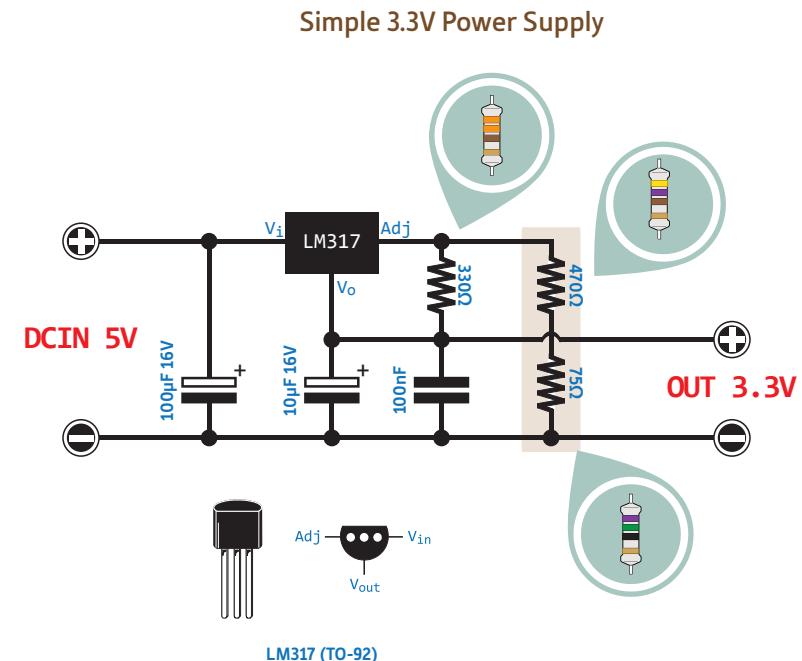
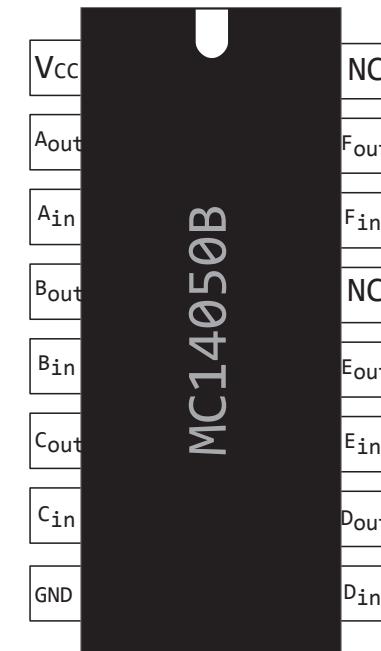
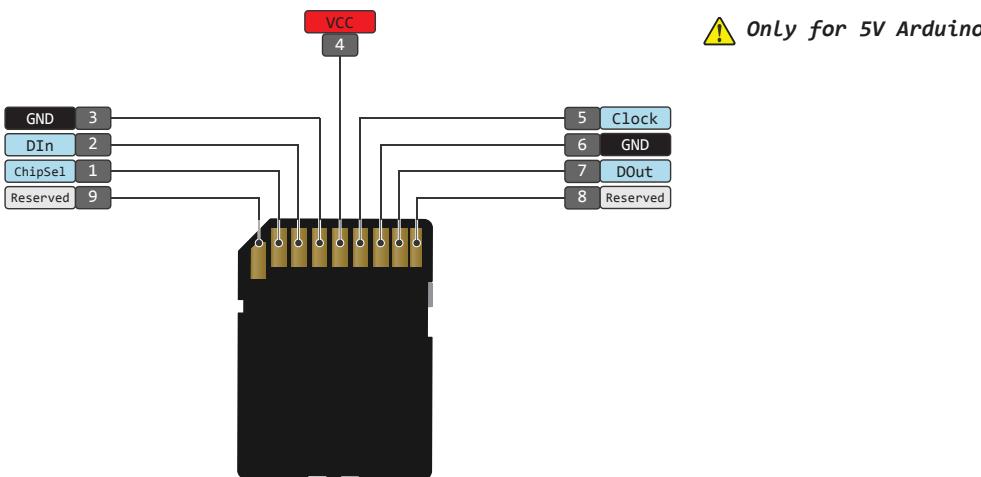
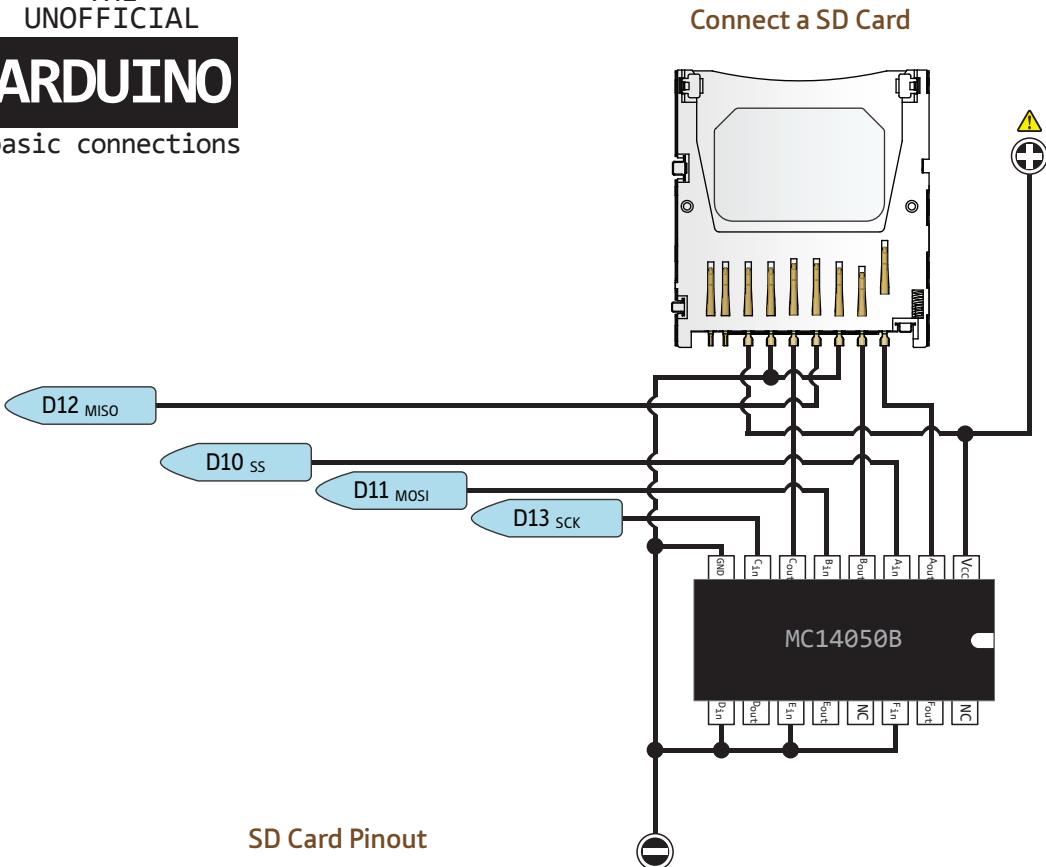


www.pighixxx.com

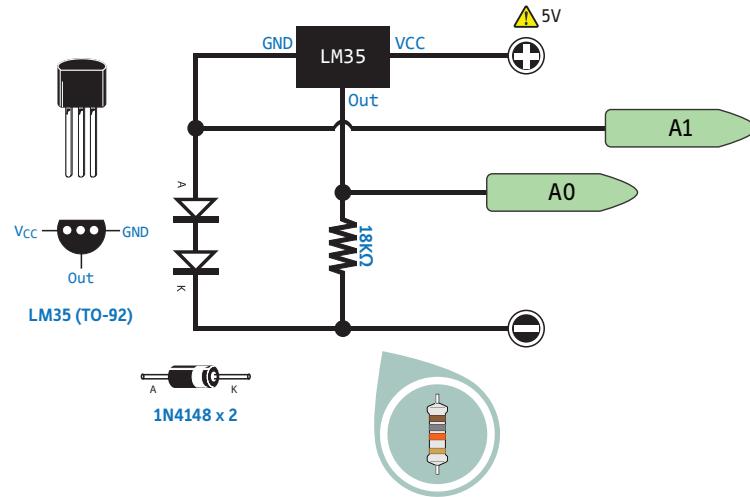


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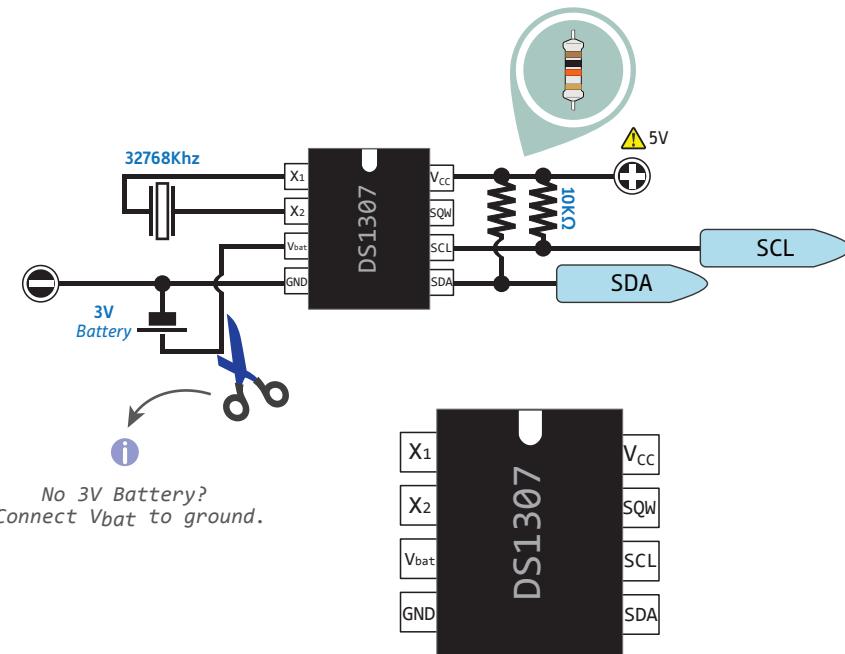
ver 1 rev 0



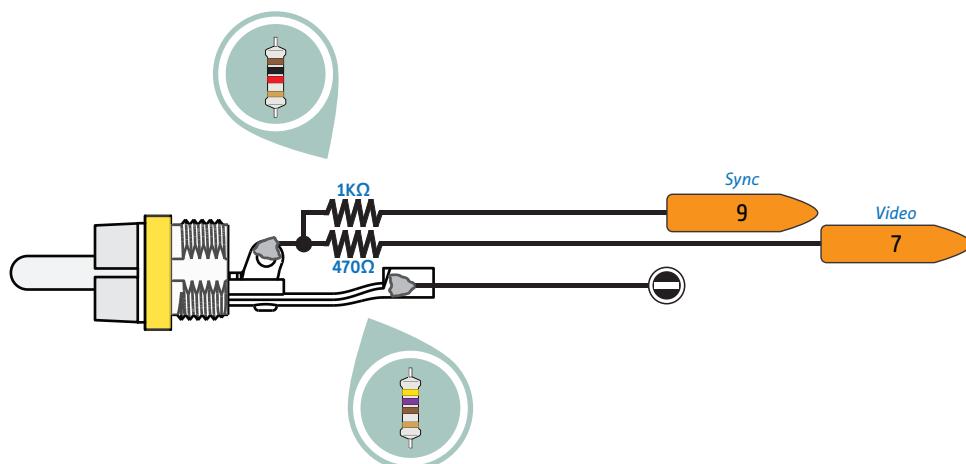
Connect a Temperature Sensor (LM35)



Connect a RTC (DS1307)



Connect to Composite Video



Connect to VGA

