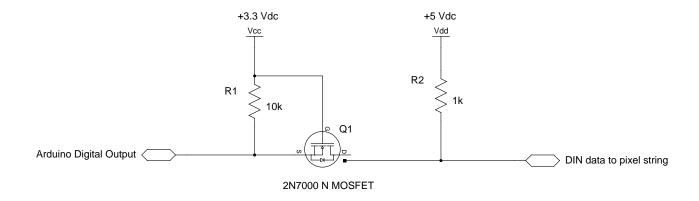
This circuit allows the 3.3 Vdc output of a Moteino/Arduino to the 5 Vdc required by the WS2811 chip used in addressable tricolour LED (pixel) strings.



Note that R2 (the high voltage pull-up resistor) must be less than 10k. The 1k resistor seemed to work well. The output (5 V) waveform has a significant ramp on the rising edge of each pulse. With the 10k resistor, an oscilloscope shows peak-to-peak voltage of about 3 V (less than the low voltage side of the converter). With the 1K resistor P-P voltage approaches the 5 volt mark.

Test was performed using the strandtest_solid_white Arduino sketch.

LED Pixel String Logic Le	evel Converter Circuit	
FILE: Pixel_LED_String_Logic_Converter.sch	h REVISION: 1.0 (Mar.01,2016)	
PAGE 1 OF 1	DRAWN BY: J. van Schouwen	