

Cut the meter-long Neo-pixel strips into 12 sections of 5 LEDs each.

Glue the smaller strips in a spoke-like pattern around a 1-1.5 inch hole in the centre of the foamcore mounting board.

Solder the centre data-in leads together, then the 5V and GRD leads around the perimeter.

The assembly can be inserted into a frame if desired.

The schematic of the project is very simple requiring only that it be connected to an output pin, GRD and 5V on the arduino. A 560 Ω resistor is placed between the arduino output and the LED strips input to prevent overloading. The photoresistor is connected to one of the arduino's analog pins with a 10K Ω resistor between the photoresistor and 5V.

