Pins 2, 3, 5 are on port E.
for mode selection

Dual potentiometer
Joystick module

GND 5V   X   Y   SW

A15 A14 GND GND   5V

MAX7219 & 1088AS

V_{CC}	V_{CC}
GND	GND
D_{out}	D_{in}
CS	CS
CLK	CLK

Arduino Mega 2560

53	52
51	50
49	48
47	46
45	44
43	42
41	40
39	38
37	36
35	34
33	32
31	30
29	28
27	26
25	24
23	22
5V	5V

Port L
SPI & Corner toggles

All digital GPIO pins are
input pullup except purple.

Port C
Column toggles

Port A
Row toggles

2 3   5   GND