

NeoPixel Logic

Assumptions:

1. Square grid
2. Start counting at 0

pixelSide = 8
 a = current position

Movement Operations

Left = a - 1
Right = a + 1
Up = a - pixelSide
Down = a + pixelSide

Border Checks to permit movement:

Up:
 a - pixelSide >= 0

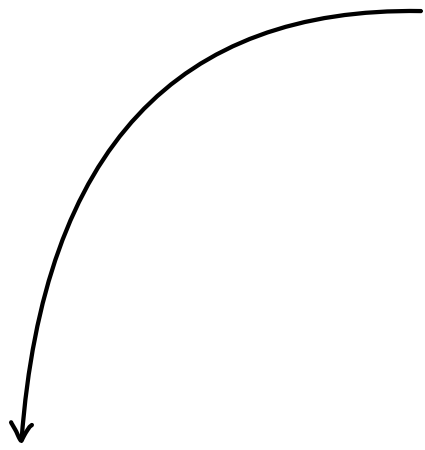
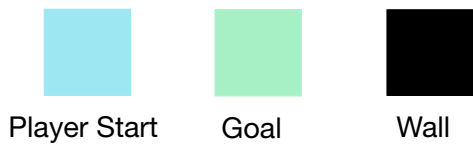
Down: a + pixelSide <= pixelSide^2 - 1

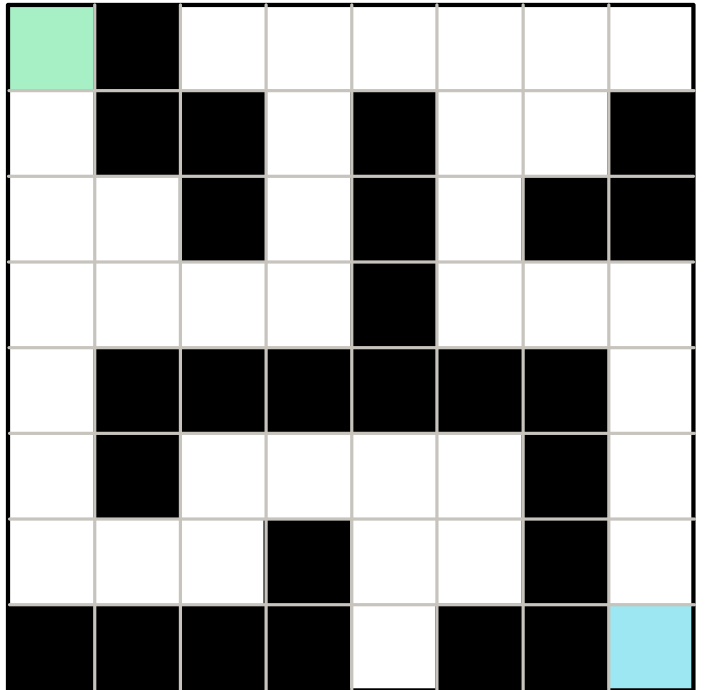
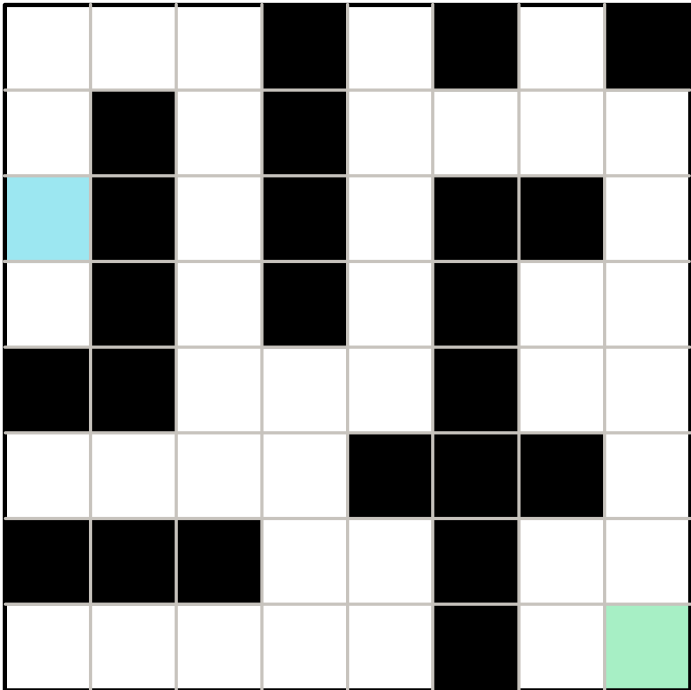
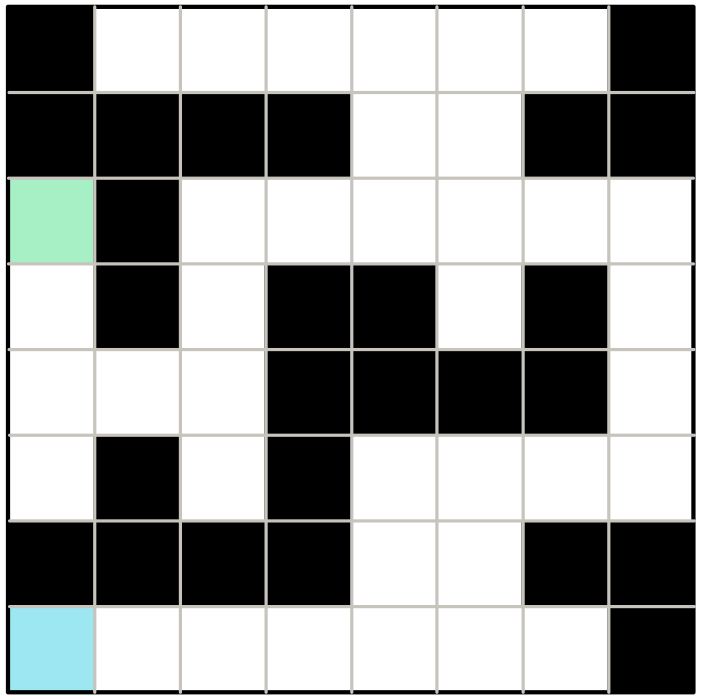
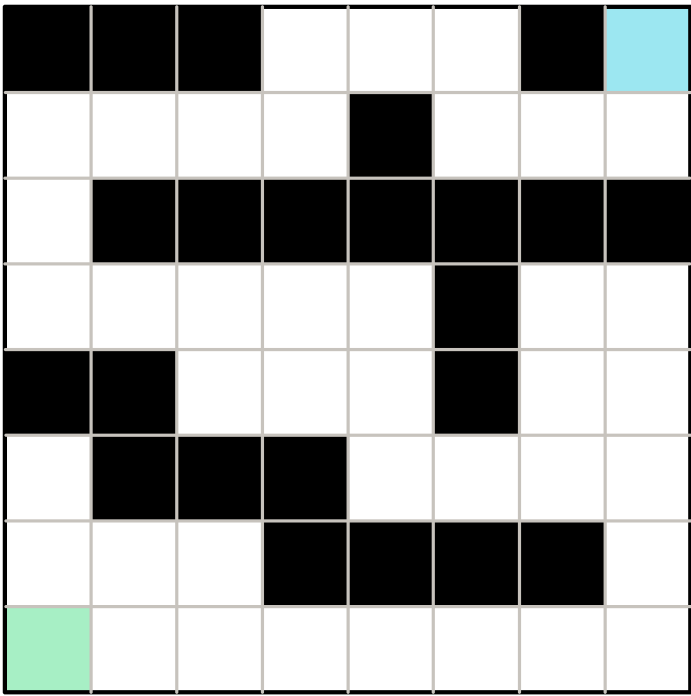
Left:
 a % pixelSide != 0

Right:
 a % pixelSide != pixelSide - 1

0	1	2	3	4	5	6	7
8	...						15
16							23
24							31
32							39
40							47
48							55
56	57	58	59	60	61	62	63

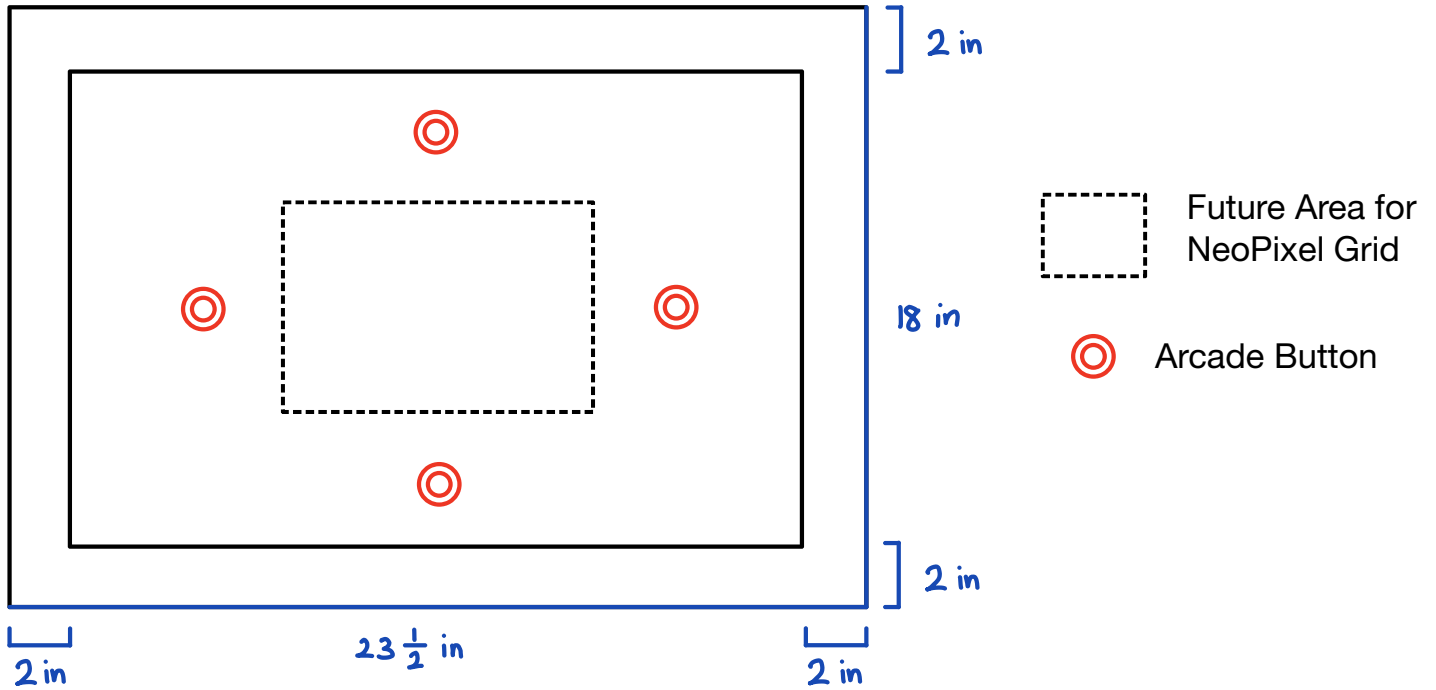
Player Start	Wall	Wall	Wall	Wall	Wall	Goal	Wall
Wall	Wall	Wall	Wall	Wall	Wall	Wall	Wall
Wall	Wall	Wall	Wall	Wall	Wall	Wall	Wall
Wall	Wall	Wall	Wall	Wall	Wall	Wall	Wall
Wall	Wall	Wall	Wall	Wall	Wall	Wall	Wall
Wall	Wall	Wall	Wall	Wall	Wall	Wall	Wall
Wall	Wall	Wall	Wall	Wall	Wall	Wall	Wall
Wall	Wall	Wall	Wall	Wall	Wall	Wall	Wall





Play Testing Prototype

Top piece of enclosure (cardboard piece + frame)



Bottom piece of enclosure (inside)

