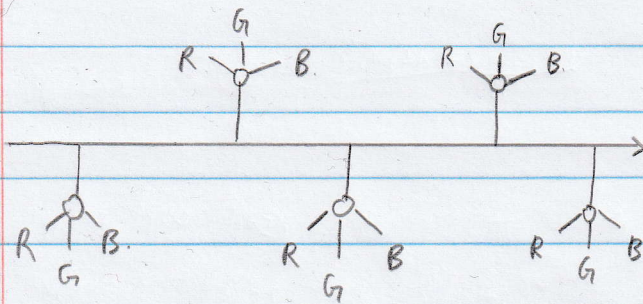


Hao Wang



0 3 6 9. Data Bus  
 ↓ ↓ ↓ ↓  
 010110 101001011

↓  
 010, 110, 101, 001, 111.  
 RGB RGB RGB RGB RGB

↓  
 G, RG, RB, B, RGB

↓  
 Green, Yellow, Magenta, Blue, white

3x3 ⇒ 27 bits

0x0 0x1 0x2

1x0 1x1 1x2

2x0 2x1 2x2

↓

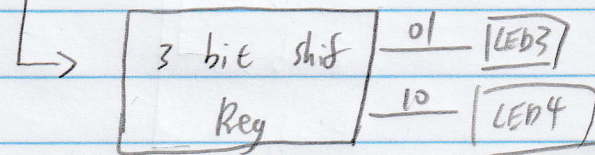
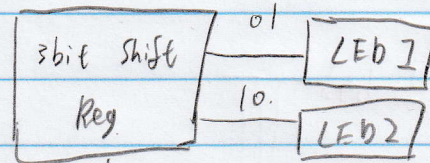
3<sup>0</sup> 3<sup>1</sup> 3<sup>2</sup>

3<sup>3</sup> 3<sup>4</sup> 3<sup>5</sup>

3<sup>6</sup> 3<sup>7</sup> 3<sup>8</sup>

Protocol Demo.

DATA BUS :  
 3bit 3bit 3bit 3bit 3bit  
 ↑ ↑ ↑ ↑ ↑  
 010 110 101 001 011 ...  
 0x0 0x1 0x2 2x0 2x1



$$27 \text{ bit} \div 6 = 4.5 \Rightarrow 5$$

to communicate a 3x3 picture will need 5 clk time

cost:

\$6 for 6 8bit shift register