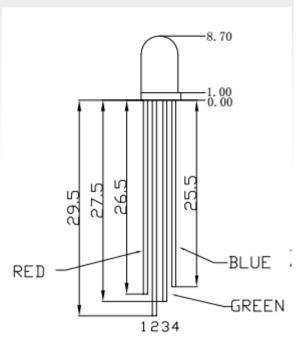


Color Mixing Tri-color LED



In the SIK, this is a standard – Common Cathode LED

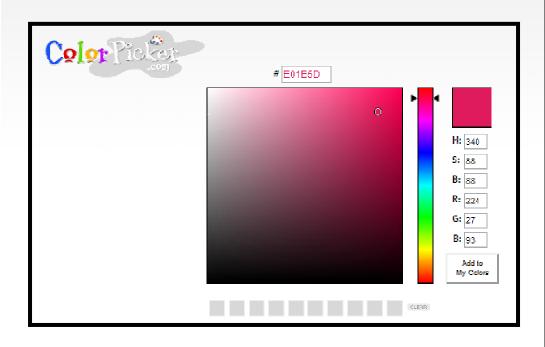
This means the negative side of the LED is all tied to Ground.





How many unique colors can you create?

of unique colors = $256 \cdot 256 \cdot 256$ = $16,777,216 \ colors!$



Use Colorpicker.com or experiment on your own.

Pick out a few colors that you want to try recreating for a lamp or lighting display...

Play around with this with the analogWrite() command.



RGB LED Color Mixing

```
int redPin = 5;
int greenPin = 6;
int bluePin = 9;
void setup()
  pinMode(redPin, OUTPUT);
  pinMode(greenPin, OUTPUT);
  pinMode(bluePin, OUTPUT);
```



RGB LED Color Mixing

```
void loop()
{
   analogWrite(redPin, 255);
   analogWrite (greenPin, 255);
   analogWrite (bluePin, 255);
}
```



Project: Mood Lamp / Light Sculpture

