

// led rgb interactivo con fotocelda

```
int PinLDR = A0;
int LDRValor = 0;
int LedRojo = 9;
int LedVerde = 10;
int LedAzul = 11;

void setup ( )
{
  pinMode (LedRojo, OUTPUT);
  pinMode (LedVerde, OUTPUT);
  pinMode (LedAzul, OUTPUT);
}

void loop ( )
{
  LDRValor = analogRead (PinLDR);
  if ( LDRValor >= 1023 )
  {
    analogWrite(LedRojo, 128);
    analogWrite(LedVerde, 0);
    analogWrite(LedAzul, 0);
  }
  else if (( LDRValor >= 959) && ( LDRValor < 1023))
  {
    analogWrite(LedRojo, 255);
    analogWrite(LedVerde, 0);
    analogWrite(LedAzul, 0);
  }
  else if (( LDRValor >= 895) && ( LDRValor < 959))
  {
    analogWrite(LedRojo, 255);
    analogWrite(LedVerde, 128);
    analogWrite(LedAzul, 0);
  }
  else if (( LDRValor >= 831) && ( LDRValor < 895))
  {
    analogWrite(LedRojo, 255);
    analogWrite(LedVerde, 255);
    analogWrite(LedAzul, 0);
  }
  else if (( LDRValor >= 767) && ( LDRValor < 831))
  {
    analogWrite(LedRojo, 255);
    analogWrite(LedVerde, 255);
    analogWrite(LedAzul, 128);
  }
}
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else if (( LDRValor >= 703) && ( LDRValor < 767))
{
    analogWrite(LedRojo, 128);
    analogWrite(LedVerde, 255);
    analogWrite(LedAzul, 255);
}
else if (( LDRValor >= 639) && ( LDRValor < 703))
{
    analogWrite(LedRojo, 128);
    analogWrite(LedVerde, 128);
    analogWrite(LedAzul, 255);
}
else if (( LDRValor >= 575) && ( LDRValor < 639))
{
    analogWrite(LedRojo, 0);
    analogWrite(LedVerde, 128);
    analogWrite(LedAzul, 255);
}
else if (( LDRValor >= 511) && ( LDRValor < 575))
{
    analogWrite(LedRojo, 0);
    analogWrite(LedVerde, 0);
    analogWrite(LedAzul, 255);
}
else if (( LDRValor >= 447) && ( LDRValor < 511))
{
    analogWrite(LedRojo, 0);
    analogWrite(LedVerde, 0);
    analogWrite(LedAzul, 128);
}
else if (( LDRValor >= 383) && ( LDRValor < 447))
{
    analogWrite(LedRojo, 0);
    analogWrite(LedVerde, 128);
    analogWrite(LedAzul, 0);
}
else if (( LDRValor >= 319) && ( LDRValor < 383))
{
    analogWrite(LedRojo, 0);
    analogWrite(LedVerde, 255);
    analogWrite(LedAzul, 0);
}
else if (( LDRValor >= 255) && ( LDRValor < 319))
{
    analogWrite(LedRojo, 128);
    analogWrite(LedVerde, 255);
    analogWrite(LedAzul, 0);
}
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else if (( LDRValor >= 191) && ( LDRValor < 255))
{
    analogWrite(LedRojo, 0);
    analogWrite(LedVerde, 255);
    analogWrite(LedAzul, 128);
}
else if (( LDRValor >= 127) && ( LDRValor < 191))
{
    analogWrite(LedRojo, 128);
    analogWrite(LedVerde, 255);
    analogWrite(LedAzul, 128);
}
else if (( LDRValor >= 63) && ( LDRValor < 127))
{
    analogWrite(LedRojo, 128);
    analogWrite(LedVerde, 128);
    analogWrite(LedAzul, 128);
}
else {
    analogWrite(LedRojo, 0);
    analogWrite(LedVerde, 0);
    analogWrite(LedAzul, 0);
}
}
```