

# Converting Colors

$Y_{xy}(58.8975, 0.3233, 0.5054)$

Have a look what the booklet for  
Yxy(58.8975, 0.3233, 0.5054)  
contains.

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# Color

**Yxy(58.7087, 0.3233, 0.5051)**

# Conversions

## Conversions Part 1

Format	Color
Hex	80E05E
RGB	128, 224, 94
RGB Percent	50%, 88%, 37%
CMY	0.4981, 0.1215, 0.6313
CMYK	0.43, 0.00, 0.58, 0.12
HSL	104°, 68%, 62%
HSV	104°, 58%, 88%
XYZ	37.5778, 58.7087, 19.9454
YIQ	180.4760, -15.4860, -60.7820

# Conversions

## Conversions Part 2

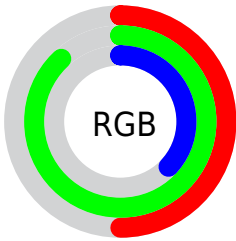
<b>Format</b>	<b>Color</b>
<b>RYB</b>	94, 224, 190
Decimal	8446046
CIELab	81.13, -51.70, 53.88
CIELCh	81, 74.671, 133.814
Yxy	58.7087, 0.3233, 0.5051
Android (android.graphics.Color)	4286636126 (0xFF80E05E)
YUV	180.4760, -42.6327, -46.0215
Hunter-Lab	76.6216, -46.5455, 38.2013

# Details

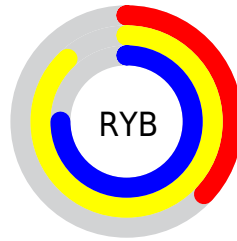
The Yxy color **58.7087, 0.3233, 0.5051** is a light color, and the websafe version is hex **66CC33**. The color can be described as light muted chartreuse. A complement of this color would be **24.3434, 0.2841, 0.1787**, and the grayscale version is **46.1525, 0.3127, 0.3290**.

A 20% lighter version of the original color is **84.0972, 0.3290, 0.4510**, and **29.4170, 0.3177, 0.5556** is the 20% darker color. If you saturate the color by 10%, you get **57.1855, 0.3220, 0.5349**, and if you desaturate by 10%, it is **60.5628, 0.3233, 0.4726**.

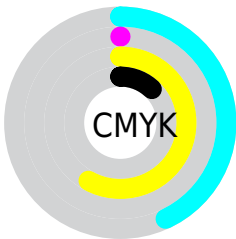
# Distribution



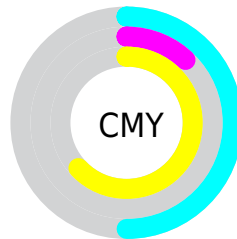
- Red (50%)
- Green (88%)
- Blue (37%)



- Red (37%)
- Yellow (88%)
- Blue (75%)



- Cyan (43%)
- Magenta (0%)
- Yellow (58%)
- Black (12%)



- Cyan (50%)
- Magenta (12%)
- Yellow (63%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 58.7087, 0.3233, 0.5051 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.


Similar to the brightness gradients but the following saturation gradients show a change of the Yxy color 58.7087, 0.3233, 0.5051 by changing the saturation by 10% instead.



 58.7087, 0.3233,  
0.5051

 58.7087, 0.3233,  
0.5051


419.8215, 0.3235,  
0.4152

 42.3787, 0.3214,  
0.5272

 102.9542, 0.3248,  
0.4725


 29.3979, 0.3177,  
0.5551


 131.6384, 0.3249,  
0.4602

 19.3820, 0.3111,  
0.5907


 165.2095, 0.3248,  
0.4498

 11.9467, 0.2986,  
0.6370

 204.0518, 0.3247,  
0.4408

 6.7074, 0.2826,  
0.7174

248.5498, 0.3244,  
0.4331

 3.2798, 0.2277,  
0.7723

299.0878, 0.3241,

 1.2795, 0.0000,

0.4264

1.0000

356.0503, 0.3238,  
0.4205

■ 0.1252, 0.0000,  
1.0000

■ 0.0000, 0.0000,  
0.0000

■ 58.7087, 0.3233,  
0.5051

■ 58.7087, 0.3233,  
0.5051

■ 57.1855, 0.3220,  
0.5349

■ 60.5628, 0.3233,  
0.4726

■ 55.9652, 0.3194,  
0.5600


■ 62.7589, 0.3222,  
0.4394

■ 55.0270, 0.3157,  
0.5785


■ 65.3166, 0.3203,  
0.4072


■ 54.3417, 0.3111,  
0.5900


■ 68.2519, 0.3179,  
0.3769

 54.2300, 0.3103,  
0.5918

 71.5797, 0.3151,  
0.3492

 75.3142, 0.3121,  
0.3243

 79.4686, 0.3092,  
0.3022

 81.7942, 0.3141,  
0.2989

# Harmonies

## Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



58.7087, 0.4104, 0.4920



58.7087, 0.3233, 0.5051



58.7087, 0.2381, 0.4401

# Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



58.7087, 0.3233, 0.5051



58.7087, 0.1635, 0.2005



58.7087, 0.4635, 0.3020

# Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



58.7087, 0.3233, 0.5051



24.3434, 0.2841, 0.1787

# Split Complementary

Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



58.7087, 0.3748, 0.2454



58.7087, 0.3233, 0.5051



58.7087, 0.2040, 0.1894

# Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



58.7087, 0.3233, 0.5051



58.7087, 0.1545, 0.2458



58.7087, 0.2772, 0.2057



58.7087, 0.5013, 0.3668



# Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



58.7087, 0.3233, 0.5051



58.7087, 0.1944, 0.3681



58.7087, 0.2772, 0.2057



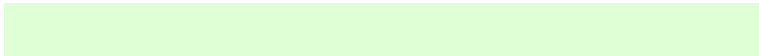
58.7087, 0.4378, 0.2818

# Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



58.7112, 0.3233, 0.5051



91.9404, 0.3176, 0.3743



53.1997, 0.4169, 0.4346



19.4975, 0.3182, 0.3801



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



58.7112, 0.3233, 0.5051



76.2706, 0.3215, 0.5417



57.1592, 0.2900, 0.4745



15.5095, 0.3155, 0.3530



31.6115, 0.3112, 0.5911



2.2339, 0.3223, 0.5823



# Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



24.3434, 0.2841, 0.1787



25.9191, 0.2754, 0.1526



27.7380, 0.3526, 0.2201



13.7460, 0.3096, 0.3056



7.8760, 0.2558, 0.1183



0.5884, 0.2663, 0.1240



# Previews

## White Background



This preview shows how the Yxy color 58.7087, 0.3233, 0.5051 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 58.7087, 0.3233, 0.5051 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

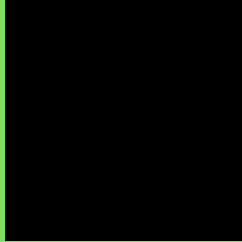
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 58.7087, 0.3233, 0.5051**

## **Background**



This preview shows how black text looks on a background with the Yxy color 58.7087, 0.3233, 0.5051.



This preview shows how white text looks on a background with the Yxy color 58.7087, 0.3233, 0.5051.

# Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



### Original Color

58.7087, 0.3233, 0.5051

### Protanopia

58.1494, 0.4123, 0.4521

### Deuteranopia

57.8337, 0.4288, 0.4197



## Tritanopia

58.2185, 0.2626, 0.3077

# Trichromacy



## Original Color

58.7087, 0.3233, 0.5051



## Protanomaly

57.0305, 0.3760, 0.4725



## Deuteranomaly

56.3285, 0.3863, 0.4506



## Tritanomaly

57.6952, 0.2862, 0.3772

# Monochromacy



## Original Color

58.7087, 0.3233, 0.5051



## Achromatopsia

45.6411, 0.3127, 0.3290



## Achromatomaly

49.2268, 0.3191, 0.3941

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 58.7087, 0.3233, 0.5051 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(128, 224, 94)` looks like.

```
.text, #text, p{  
    color:rgb(128, 224, 94)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(128, 224, 94) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(128, 224, 94) }
```

## Border

The CSS property to change the border of an element to Yxy 58.7087, 0.3233, 0.5051 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(128, 224, 94) }
```

If only the border color should be changed use the property border-color.

```
.border{ border-color:rgb(128, 224, 94) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel rgb(128, 224, 94) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(128, 224, 94); -webkit-box-  
shadow:4px 4px 4px 4px rgb(128, 224, 94);  
box-shadow:4px 4px 4px 4px rgb(128, 224,  
94) }
```



# Background

The CSS property to change the background color of an element to Yxy 58.7087, 0.3233, 0.5051 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(128, 224, 94) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(128,  
224, 94) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

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