

# Converting Colors

$Yxy(45.1946, 0.3156, 0.4998)$

Have a look what the booklet for  
Yxy(45.1946, 0.3156, 0.4998)  
contains.

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# Color

**Yxy(45.1556, 0.3157, 0.4998)**

# Conversions

## Conversions Part 1

Format	Color
Hex	6BC859
RGB	107, 200, 89
RGB Percent	42%, 78%, 35%
CMY	0.5803, 0.2157, 0.6509
CMYK	0.46, 0.00, 0.55, 0.22
HSL	110°, 50%, 57%
HSV	110°, 55%, 78%
XYZ	28.5227, 45.1556, 16.6691
YIQ	159.5390, -19.7970, -54.2370

# Conversions

## Conversions Part 2

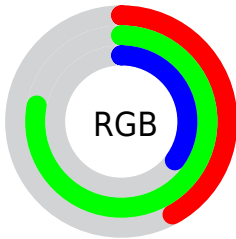
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	89, 200, 182
Decimal	7063641
CIE <sub>Lab</sub>	72.99, -48.85, 46.45
CIE <sub>LCh</sub>	73, 67.404, 136.442
Yxy	45.1556, 0.3157, 0.4998
Android (android.graphics.Color)	4285253721 (0xFF6BC859)
YUV	159.5390, -34.7757, -46.0767
Hunter-Lab	67.1979, -41.8307, 32.3311

# Details

The Yxy color **45.1556, 0.3157, 0.4998** is a dark color, and the websafe version is hex **66CC66**. The color can be described as dark muted chartreuse. A complement of this color would be **21.2666, 0.2985, 0.1906**, and the grayscale version is **35.1035, 0.3127, 0.3290**.

A 20% lighter version of the original color is **81.3655, 0.3185, 0.4632**, and **21.0127, 0.3083, 0.5547** is the 20% darker color. If you saturate the color by 10%, you get **43.9256, 0.3143, 0.5315**, and if you desaturate by 10%, it is **46.6820, 0.3163, 0.4659**.

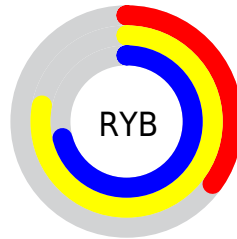
# Distribution



Red (42%)

Green (78%)

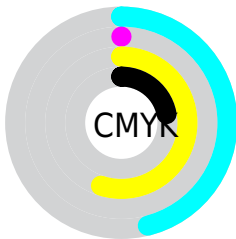
Blue (35%)



Red (35%)

Yellow (78%)

Blue (71%)

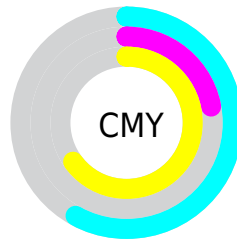


Cyan (46%)

Magenta (0%)

Yellow (55%)

Black (22%)



Cyan (58%)

Magenta (22%)


Yellow (65%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 45.1556, 0.3157, 0.4998 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 45.1556, 0.3157, 0.4998 by changing the saturation by 10% instead.





 45.1556, 0.3157,  
0.4998

 45.1556, 0.3157,  
0.4998


367.4034, 0.3190,  
0.4084


 31.5800, 0.3129,  
0.5239


 82.9539, 0.3183,  
0.4655

 21.0409, 0.3080,  
0.5551


 107.9453, 0.3188,  
0.4529

 13.1539, 0.2991,  
0.5967


 137.5108, 0.3191,  
0.4424

 7.5346, 0.2824,  
0.6542

 172.0348, 0.3192,  
0.4335

 3.7986, 0.2533,  
0.7467

211.9017, 0.3192,  
0.4258

 1.5616, 0.1007,  
0.8993

257.4958, 0.3192,

 0.3315, 0.0000,

0.4192

1.0000

309.2016, 0.3191,  
0.4135

■ 0.0000, 0.0000,  
0.0000

■ 45.1556, 0.3157,  
0.4998

■ 45.1556, 0.3157,  
0.4998

■ 43.9256, 0.3143,  
0.5315

■ 46.6820, 0.3163,  
0.4659

■ 42.9671, 0.3120,  
0.5587

■ 48.5165, 0.3163,  
0.4320

■ 42.2602, 0.3091,  
0.5794

■ 50.6772, 0.3157,  
0.3995

■ 41.7797, 0.3059,  
0.5922

■ 53.1790, 0.3147,  
0.3696

■ 41.6230, 0.3046,  
0.5963

■ 56.0359, 0.3135,  
0.3425

■ 59.2611, 0.3121,  
0.3185

■ 62.8671, 0.3106,  
0.2975

■ 66.8660, 0.3091,  
0.2791

■ 69.7893, 0.3152,  
0.2752

# Harmonies

## Analogous

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



45.1556, 0.4024, 0.4934



45.1556, 0.3157, 0.4998



45.1556, 0.2328, 0.4296

# Triad

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



45.1556, 0.3157, 0.4998



45.1556, 0.1675, 0.1999



45.1556, 0.4670, 0.3079

# Complementary

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



45.1556, 0.3157, 0.4998



21.2666, 0.2985, 0.1906

# 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.



45.1556, 0.3827, 0.2508



45.1556, 0.3157, 0.4998



45.1556, 0.2104, 0.1914

# Square

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



45.1556, 0.3157, 0.4998



45.1556, 0.1559, 0.2415



45.1556, 0.2855, 0.2097



45.1556, 0.4989, 0.3726



# Rectangle

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



45.1556, 0.3157, 0.4998



45.1556, 0.1914, 0.3581



45.1556, 0.2855, 0.2097



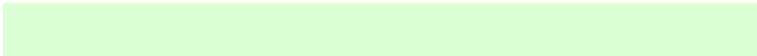
45.1556, 0.4431, 0.2877

# Sweetspot

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



45.1575, 0.3157, 0.4998



91.2656, 0.3149, 0.3746



46.2551, 0.4037, 0.4419



19.3398, 0.3151, 0.3806



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.



45.1575, 0.3157, 0.4998



75.5966, 0.3138, 0.5388



44.9413, 0.2843, 0.4476



11.9691, 0.3140, 0.3527



26.4910, 0.3052, 0.5958



1.2810, 0.3176, 0.5860



# Inverse Universe

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



21.2666, 0.2985, 0.1906



29.9656, 0.2936, 0.1659



22.0736, 0.3649, 0.2368



10.7263, 0.3112, 0.3061



7.9489, 0.2806, 0.1320



0.4003, 0.2895, 0.1369



# Previews

## White Background



This preview shows how the Yxy color 45.1556, 0.3157, 0.4998 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

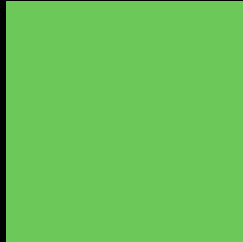
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 45.1556, 0.3157, 0.4998 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 45.1556, 0.3157, 0.4998**

## **Background**



This preview shows how black text looks on a background with the Yxy color 45.1556, 0.3157, 0.4998.



This preview shows how white text looks on a background with the Yxy color 45.1556, 0.3157, 0.4998.

# 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

45.1556, 0.3157, 0.4998

### Protanopia

44.3203, 0.4080, 0.4468

### Deuteranopia

44.5179, 0.4229, 0.4142



## Tritanopia

44.9454, 0.2591, 0.3080

# Trichromacy



## Original Color

45.1556, 0.3157, 0.4998



## Protanomaly

43.6662, 0.3696, 0.4676



## Deuteranomaly

43.3209, 0.3796, 0.4455



## Tritanomaly

44.3729, 0.2804, 0.3741

# Monochromacy



## Original Color

45.1556, 0.3157, 0.4998



## Achromatopsia

35.1533, 0.3127, 0.3290



## Achromatomaly

38.0439, 0.3158, 0.3924

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 45.1556, 0.3157, 0.4998 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(107, 200, 89)` looks like.

```
.text, #text, p{  
    color:rgb(107, 200, 89)  
}
```

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(107, 200, 89) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(107, 200, 89) }
```

## Border

The CSS property to change the border of an element to Yxy 45.1556, 0.3157, 0.4998 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(107, 200, 89) }
```

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

```
.border{ border-color:rgb(107, 200, 89) }
```

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

Here you see how a box with a 4 pixel `rgb(107, 200, 89)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(107, 200, 89); -webkit-box-  
shadow:4px 4px 4px 4px rgb(107, 200, 89);  
box-shadow:4px 4px 4px 4px rgb(107, 200,  
89) }
```



# Background

The CSS property to change the background color of an element to Yxy 45.1556, 0.3157, 0.4998 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(107, 200, 89) }
```

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

```
.background{ background-color: rgb(107,  
200, 89) }
```

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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