

# Converting Colors

$Yxy(46.5699, 0.3012, 0.5187)$

Have a look what the booklet for  
Yxy(46.5699, 0.3012, 0.5187)  
contains.

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**Color**

**Yxy(46.5040, 0.3013, 0.5186)**

# Conversions

## Conversions Part 1

Format	Color
Hex	50CE55
RGB	80, 206, 85
RGB Percent	31%, 81%, 33%
CMY	0.6864, 0.1921, 0.6666
CMYK	0.61, 0.00, 0.59, 0.19
HSL	122°, 56%, 56%
HSV	122°, 61%, 81%
XYZ	27.0182, 46.5040, 16.1500
YIQ	154.5320, -36.2550, -64.3430

# Conversions

## Conversions Part 2

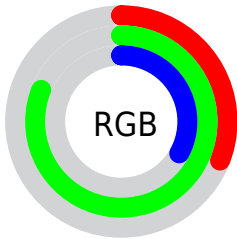
Format	Color
<a href="#">RYB</a>	<a href="#">80, 201, 206</a>
Decimal	<a href="#">5295701</a>
CIELab	<a href="#">73.87, -58.62, 49.08</a>
CIELCh	<a href="#">74, 76.454, 140.060</a>
Yxy	<a href="#">46.5040, 0.3013, 0.5186</a>
Android (android.graphics.Color)	<a href="#">4283485781 (0xFF50CE55)</a>
YUV	<a href="#">154.5320, -34.2793, -65.3646</a>
Hunter-Lab	<a href="#">68.1938, -48.6180, 33.6944</a>

# Details

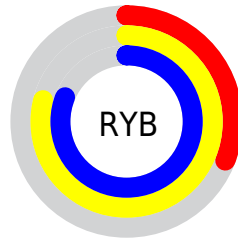
The Yxy color **46.5040, 0.3013, 0.5186** is a dark color, and the websafe version is hex **33CC66**. The color can be described as dark muted green. A complement of this color would be **23.0716, 0.3250, 0.1930**, and the grayscale version is **32.7258, 0.3127, 0.3290**.

A 20% lighter version of the original color is **79.0177, 0.3075, 0.4733**, and **21.9116, 0.2935, 0.5766** is the 20% darker color. If you saturate the color by 10%, you get **45.4711, 0.3001, 0.5489**, and if you desaturate by 10%, it is **47.9034, 0.3029, 0.4848**.

# Distribution



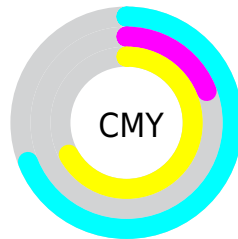
- Red (31%)
- Green (81%)
- Blue (33%)



- Red (31%)
- Yellow (79%)
- Blue (81%)



- Cyan (61%)
- Magenta (0%)
- Yellow (59%)
- Black (19%)




- Cyan (69%)
- Magenta (19%)
- Yellow (67%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 46.5040, 0.3013, 0.5186 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 46.5040, 0.3013, 0.5186 by changing the saturation by 10% instead.




 46.5040, 0.3013,  
0.5186


 46.5040, 0.3013,  
0.5186


372.8312, 0.3128,  
0.4166


 32.6437, 0.2962,  
0.5455


 84.9728, 0.3071,  
0.4803


 21.8537, 0.2881,  
0.5804


 110.3501, 0.3088,  
0.4662

 13.7494, 0.2749,  
0.6266


 140.3351, 0.3100,  
0.4545

 7.9466, 0.2526,  
0.6908

 175.3124, 0.3109,  
0.4446

 4.0608, 0.2138,  
0.7862

215.6662, 0.3116,  
0.4361

 1.7076, 0.0165,  
0.9835

261.7811, 0.3121,

 0.4286, 0.0000,

0.4287

1.0000

314.0413, 0.3125,  
0.4223

■ 0.0000, 0.0000,  
0.0000

■ 46.5040, 0.3013,  
0.5186

■ 46.5040, 0.3013,  
0.5186

■ 45.4711, 0.3001,  
0.5489

■ 47.9034, 0.3029,  
0.4848

■ 44.7654, 0.2995,  
0.5733

■ 49.6928, 0.3048,  
0.4500

■ 44.3488, 0.2994,  
0.5898

■ 51.9007, 0.3068,  
0.4163

■ 44.1634, 0.2994,  
0.5978

■ 54.5512, 0.3088,  
0.3849

■ 57.6665, 0.3107,  
0.3567

■ 61.2674, 0.3125,  
0.3317

■ 65.3734, 0.3142,  
0.3100

■ 70.0031, 0.3156,  
0.2912

■ 72.6253, 0.3150,  
0.2811

# Harmonies

## Analogous

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



46.5040, 0.3973, 0.5159



46.5040, 0.3013, 0.5186



46.5040, 0.2132, 0.4291

# Triad

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



46.5040, 0.3013, 0.5186



46.5040, 0.1578, 0.1842



46.5040, 0.4936, 0.3118

# Complementary

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



46.5040, 0.3013, 0.5186



23.0716, 0.3250, 0.1930

# 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.



46.5040, 0.4038, 0.2493



46.5040, 0.3013, 0.5186



46.5040, 0.2077, 0.1795

# Square

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



46.5040, 0.3013, 0.5186



46.5040, 0.1412, 0.2230



46.5040, 0.2938, 0.2026



46.5040, 0.5187, 0.3815

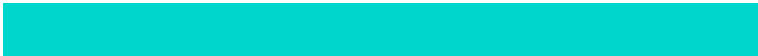


# Rectangle

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



46.5040, 0.3013, 0.5186



46.5040, 0.1719, 0.3457



46.5040, 0.2938, 0.2026



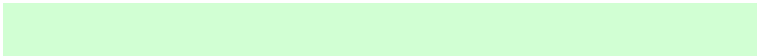
46.5040, 0.4693, 0.2898

# Sweetspot

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



46.5059, 0.3013, 0.5186



89.7899, 0.3094, 0.3762



57.2535, 0.3946, 0.4724



18.9175, 0.3088, 0.3849



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.



46.5059, 0.3013, 0.5186



73.3057, 0.2999, 0.5563



47.9623, 0.2691, 0.4209



12.5441, 0.3111, 0.3520



27.1962, 0.2992, 0.5971



1.4056, 0.2965, 0.5874



# Inverse Universe

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



23.0716, 0.3250, 0.1930



32.2472, 0.3274, 0.1753



20.7143, 0.4106, 0.2580



11.3957, 0.3144, 0.3071



10.5872, 0.3311, 0.1598



0.5486, 0.3289, 0.1586



# Previews

## White Background



This preview shows how the Yxy color 46.5040, 0.3013, 0.5186 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 46.5040, 0.3013, 0.5186 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 46.5040, 0.3013, 0.5186**

## Background



This preview shows how black text looks on a background with the Yxy color 46.5040, 0.3013, 0.5186.



This preview shows how white text looks on a background with the Yxy color 46.5040, 0.3013, 0.5186.

# 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

46.5040, 0.3013, 0.5186

### Protanopia

45.4577, 0.4125, 0.4521

### Deuteranopia

45.7034, 0.4258, 0.4173



## Tritanopia

46.1229, 0.2467, 0.3064

# Trichromacy



## Original Color

46.5040, 0.3013, 0.5186



## Protanomaly

44.0423, 0.3636, 0.4801



## Deuteranomaly

43.5824, 0.3724, 0.4558



## Tritanomaly

45.7778, 0.2675, 0.3809

# Monochromacy



## Original Color

46.5040, 0.3013, 0.5186



## Achromatopsia

32.7778, 0.3127, 0.3290



## Achromatomaly

36.4730, 0.3077, 0.3998

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 46.5040, 0.3013, 0.5186 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(80, 206, 85)` looks like.

```
.text, #text, p{  
    color:rgb(80, 206, 85)  
}
```

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(80, 206, 85) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(80, 206, 85) }
```

## Border

The CSS property to change the border of an element to Yxy 46.5040, 0.3013, 0.5186 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(80, 206, 85) }
```

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

```
.border{ border-color:rgb(80, 206, 85) }
```

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

Here you see how a box with a 4 pixel `rgb(80, 206, 85)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(80, 206, 85); -webkit-box-  
shadow:4px 4px 4px 4px rgb(80, 206, 85);  
box-shadow:4px 4px 4px 4px rgb(80, 206,  
85) }
```



# Background

The CSS property to change the background color of an element to Yxy 46.5040, 0.3013, 0.5186 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(80, 206, 85) }
```

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

```
.background{ background-color: rgb(80, 206,  
85) }
```

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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