

# Converting Colors

$Y_{xy}(49.3538, 0.3206, 0.5814)$

Have a look what the booklet for  
Yxy(49.3538, 0.3206, 0.5814)  
contains.

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# Color

**Yxy(49.3554, 0.3207, 0.5813)**

# Conversions

## Conversions Part 1

Format	Color
Hex	51D508
RGB	81, 213, 8
RGB Percent	32%, 84%, 3%
CMY	0.6825, 0.1647, 0.9686
CMYK	0.62, 0.00, 0.96, 0.16
HSL	99°, 93%, 43%
HSV	99°, 96%, 84%
XYZ	27.2291, 49.3554, 8.3207
YIQ	150.1620, -12.8670, -91.7390

# Conversions

## Conversions Part 2

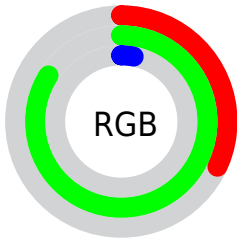
<b>Format</b>	<b>Color</b>
<b>RYB</b>	8, 213, 140
Decimal	5362952
CIELab	75.67, -65.53, 73.18
CIELCh	76, 98.232, 131.841
Yxy	49.3554, 0.3207, 0.5813
Android (android.graphics.Color)	4283553032 (0xFF51D508)
YUV	150.1620, -70.0859, -60.6551
Hunter-Lab	70.2534, -53.7597, 42.1552

# Details

The Yxy color **49.3554, 0.3207, 0.5813** is a dark color, and the websafe version is hex **33CC00**. The color can be described as dark washed green. A complement of this color would be **10.5585, 0.2357, 0.1086**, and the grayscale version is **30.8771, 0.3127, 0.3290**.

A 20% lighter version of the original color is **78.2116, 0.3304, 0.5262**, and **24.1139, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **49.1207, 0.3188, 0.5851**, and if you desaturate by 10%, it is **50.0985, 0.3257, 0.5684**.

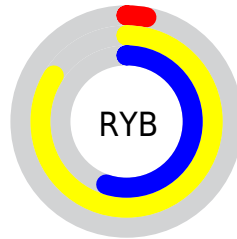
# Distribution



Red (32%)

Green (84%)

Blue (3%)



Red (3%)

Yellow (84%)

Blue (55%)

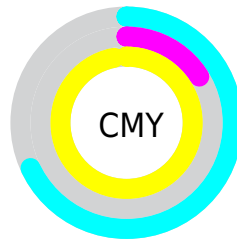


Cyan (62%)

Magenta (0%)

Yellow (96%)

Black (16%)



Cyan (68%)

Magenta (16%)


Yellow (97%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 49.3554, 0.3207, 0.5813 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 49.3554, 0.3207, 0.5813 by changing the saturation by 10% instead.





 49.3554, 0.3207,  
0.5813

 49.3554, 0.3207,  
0.5813

384.1398, 0.3292,  
0.4502

 34.9015, 0.3138,  
0.6124


 89.2191, 0.3273,  
0.5342


 23.5870, 0.3021,  
0.6499


 115.3976, 0.3287,  
0.5161


 15.0275, 0.2839,  
0.6981


 146.2532, 0.3295,  
0.5008

 8.8387, 0.2505,  
0.7495

 182.1701, 0.3298,  
0.4877

 4.6361, 0.1959,  
0.8041

 223.5329, 0.3299,  
0.4764

 2.0354, 0.0237,  
0.9763

 270.7258, 0.3297,

 0.6279, 0.0000,

0.4665


1.0000


324.1333, 0.3295,  
0.4579


 0.0000, 0.0000,  
0.0000


 49.3554, 0.3207,  
0.5813


 49.3554, 0.3207,  
0.5813


 49.1207, 0.3188,  
0.5851

 50.0985, 0.3257,  
0.5684

 51.0414, 0.3293,  
0.5489

 52.2056, 0.3312,  
0.5238

 53.6076, 0.3313,  
0.4946

 55.2617, 0.3300,  
0.4633

■ 57.1813, 0.3274,  
0.4314

■ 59.3783, 0.3239,  
0.4004

■ 61.8643, 0.3198,  
0.3713

■ 64.6497, 0.3155,  
0.3444

# Harmonies

## Analogous

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



49.3554, 0.4326, 0.5325



49.3554, 0.3207, 0.5813



49.3554, 0.2124, 0.5014

# Triad

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



49.3554, 0.3207, 0.5813



49.3554, 0.1218, 0.1632



49.3554, 0.5146, 0.2817

# Complementary

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



49.3554, 0.3207, 0.5813



10.5585, 0.2357, 0.1086

# 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.



49.3554, 0.3864, 0.2152



49.3554, 0.3207, 0.5813



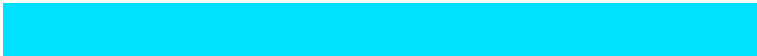
49.3554, 0.1664, 0.1508

# Square

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



49.3554, 0.3207, 0.5813



49.3554, 0.1119, 0.2176



49.3554, 0.2546, 0.1690



49.3554, 0.5650, 0.3570



# Rectangle

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



49.3554, 0.3207, 0.5813



49.3554, 0.1577, 0.3908



49.3554, 0.2546, 0.1690



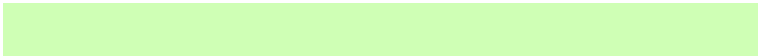
49.3554, 0.4774, 0.2581

# Sweetspot

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



49.3575, 0.3207, 0.5813



88.1766, 0.3250, 0.4098



32.2964, 0.4981, 0.4401



18.5697, 0.3265, 0.4231



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.



49.3575, 0.3207, 0.5813



73.7314, 0.3181, 0.5856



47.7673, 0.2969, 0.5859



14.1088, 0.3169, 0.3527



30.0550, 0.3198, 0.5843



1.8585, 0.3334, 0.5734



# Inverse Universe

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



10.5585, 0.2357, 0.1086



15.1393, 0.2315, 0.1049



17.8525, 0.3564, 0.1750



12.4014, 0.3082, 0.3056



6.2527, 0.2336, 0.1061



0.4228, 0.2488, 0.1144



# Previews

## White Background



This preview shows how the Yxy color 49.3554, 0.3207, 0.5813 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

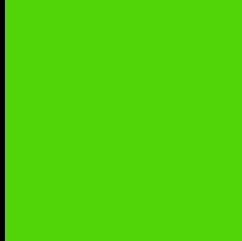
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 49.3554, 0.3207, 0.5813 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

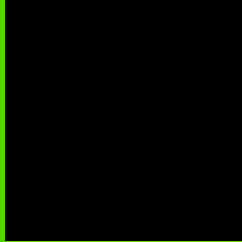
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

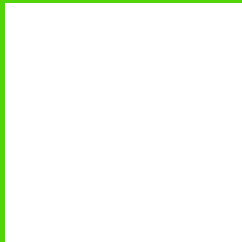
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 49.3554, 0.3207, 0.5813**

## Background



This preview shows how black text looks on a background with the Yxy color 49.3554, 0.3207, 0.5813.



This preview shows how white text looks on a background with the Yxy color 49.3554, 0.3207, 0.5813.

# 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

49.3554, 0.3207, 0.5813

### Protanopia

48.2532, 0.4412, 0.4878

### Deuteranopia

48.1730, 0.4628, 0.4512



## Tritanopia

49.0251, 0.2484, 0.3070

# Trichromacy



## Original Color

49.3554, 0.3207, 0.5813



## Protanomaly

46.7182, 0.3893, 0.5283



## Deuteranomaly

45.9645, 0.4042, 0.5047



## Tritanomaly

47.5190, 0.2854, 0.4274

# Monochromacy



## Original Color

49.3554, 0.3207, 0.5813



## Achromatopsia

30.4987, 0.3127, 0.3290



## Achromatomaly

35.1290, 0.3295, 0.4520

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 49.3554, 0.3207, 0.5813 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(81, 213, 8)` looks like.

```
.text, #text, p{  
    color:rgb(81, 213, 8)  
}
```

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(81, 213, 8) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(81, 213, 8) }
```

## Border

The CSS property to change the border of an element to Yxy 49.3554, 0.3207, 0.5813 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(81, 213, 8) }
```

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

```
.border{ border-color:rgb(81, 213, 8) }
```

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

Here you see how a box with a 4 pixel rgb(81, 213, 8) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(81, 213, 8); -webkit-box-  
shadow:4px 4px 4px 4px rgb(81, 213, 8);  
box-shadow:4px 4px 4px 4px rgb(81, 213, 8)  
}
```



# Background

The CSS property to change the background color of an element to Yxy 49.3554, 0.3207, 0.5813 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(81, 213, 8) }
```

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

```
.background{ background-color: rgb(81, 213,  
8) }
```

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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