

# Converting Colors

$Y_{xy}(45.5153, 0.3458, 0.5124)$

Have a look what the booklet for  
Yxy(45.5153, 0.3458, 0.5124)  
contains.

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# Color

**Yxy(45.3364, 0.3462, 0.5116)**

# Conversions

## Conversions Part 1

Format	Color
Hex	85C544
RGB	133, 197, 68
RGB Percent	52%, 77%, 27%
CMY	0.4785, 0.2274, 0.7334
CMYK	0.33, 0.00, 0.65, 0.23
HSL	90°, 53%, 52%
HSV	90°, 65%, 77%
XYZ	30.6792, 45.3364, 12.6013
YIQ	163.1580, 3.2650, -53.6870

# Conversions

## Conversions Part 2

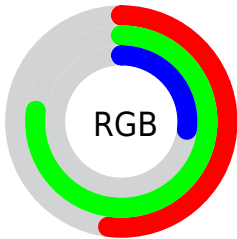
<b>Format</b>	<b>Color</b>
<b>RYB</b>	68, 197, 132
Decimal	8766788
CIELab	73.11, -41.12, 56.18
CIELCh	73, 69.622, 126.206
Yxy	45.3364, 0.3462, 0.5116
Android (android.graphics.Color)	4286956868 (0xFF85C544)
YUV	163.1580, -46.9129, -26.4486
Hunter-Lab	67.3323, -36.5001, 36.0364

# Details

The Yxy color **45.3364, 0.3462, 0.5116** is a dark color, and the websafe version is hex **99CC33**. The color can be described as middle muted chartreuse. A complement of this color would be **13.0735, 0.2436, 0.1470**, and the grayscale version is **36.9274, 0.3127, 0.3290**.

A 20% lighter version of the original color is **83.2359, 0.3445, 0.4764**, and **21.2227, 0.3433, 0.5656** is the 20% darker color. If you saturate the color by 10%, you get **44.3779, 0.3460, 0.5349**, and if you desaturate by 10%, it is **46.4538, 0.3443, 0.4847**.

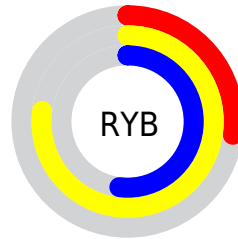
# Distribution



Red (52%)

Green (77%)

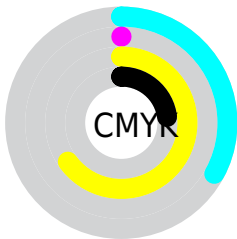
Blue (27%)



Red (27%)

Yellow (77%)

Blue (52%)

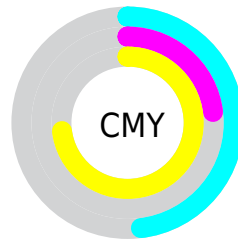


Cyan (33%)

Magenta (0%)

Yellow (65%)

Black (23%)



Cyan (48%)

Magenta (23%)

Yellow (73%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 45.3364, 0.3462, 0.5116 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 45.3364, 0.3462, 0.5116 by changing the saturation by 10% instead.




 45.3364, 0.3462,  
0.5116

 45.3364, 0.3462,  
0.5116

368.1343, 0.3357,  
0.4162


 31.7225, 0.3461,  
0.5354


 83.2250, 0.3443,  
0.4766

 21.1496, 0.3440,  
0.5651


 108.2684, 0.3430,  
0.4635


 13.2334, 0.3379,  
0.6028


 137.8905, 0.3416,  
0.4525

 7.5895, 0.3302,  
0.6642

 172.4756, 0.3403,  
0.4431

 3.8334, 0.2912,  
0.7088

 212.4082, 0.3390,  
0.4350

 1.5808, 0.1921,  
0.8079

258.0725, 0.3378,

 0.3446, 0.0000,

0.4279

1.0000

309.8531, 0.3367,  
0.4217

■ 0.0000, 0.0000,  
0.0000

■ 45.3364, 0.3462,  
0.5116

■ 45.3364, 0.3462,  
0.5116

■ 44.3779, 0.3460,  
0.5349

■ 46.4538, 0.3443,  
0.4847

■ 43.5618, 0.3436,  
0.5533

■ 47.7333, 0.3406,  
0.4556

■ 42.8776, 0.3391,  
0.5661

■ 49.1854, 0.3356,  
0.4258

■ 42.6020, 0.3368,  
0.5708

■ 50.8176, 0.3296,  
0.3965

■ 52.6371, 0.3231,  
0.3685

■ 54.6506, 0.3164,  
0.3424

■ 56.8644, 0.3097,  
0.3185

■ 59.2846, 0.3032,  
0.2968

■ 61.9170, 0.2969,  
0.2773

# Harmonies

## Analogous

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



45.3364, 0.4314, 0.4816



45.3364, 0.3462, 0.5116



45.3364, 0.2571, 0.4660

# Triad

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



45.3364, 0.3462, 0.5116



45.3364, 0.1564, 0.2066



45.3364, 0.4465, 0.2858

# Complementary

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



45.3364, 0.3462, 0.5116



13.0735, 0.2436, 0.1470

# 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.



45.3364, 0.3496, 0.2321



45.3364, 0.3462, 0.5116



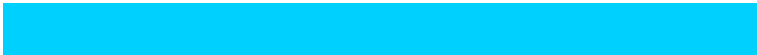
45.3364, 0.1890, 0.1876

# Square

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



45.3364, 0.3462, 0.5116



45.3364, 0.1553, 0.2625



45.3364, 0.2547, 0.1975



45.3364, 0.5007, 0.3498

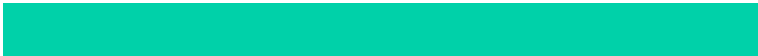


# Rectangle

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



45.3364, 0.3462, 0.5116



45.3364, 0.2076, 0.3974



45.3364, 0.2547, 0.1975



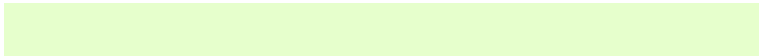
45.3364, 0.4168, 0.2663

# Sweetspot

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



45.3384, 0.3462, 0.5116



92.6507, 0.3263, 0.3818



28.3480, 0.4606, 0.4067



19.6346, 0.3282, 0.3898



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.



45.3384, 0.3462, 0.5116



78.7517, 0.3451, 0.5443



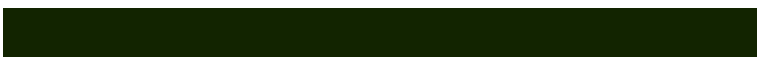
41.6615, 0.3039, 0.5377



12.1459, 0.3190, 0.3523



28.0681, 0.3377, 0.5700



1.3721, 0.3538, 0.5573



# Inverse Universe

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



13.0735, 0.2436, 0.1470



16.6416, 0.2242, 0.1145



19.7487, 0.3170, 0.1809



10.5417, 0.3059, 0.3057



4.4011, 0.2025, 0.0889



0.2515, 0.2256, 0.1016



# Previews

## White Background



This preview shows how the Yxy color 45.3364, 0.3462, 0.5116 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 45.3364, 0.3462, 0.5116 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

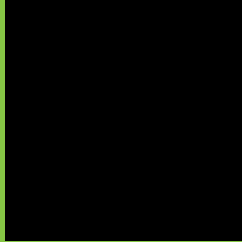
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 45.3364, 0.3462, 0.5116**

## **Background**



This preview shows how black text looks on a background with the Yxy color 45.3364, 0.3462, 0.5116.



This preview shows how white text looks on a background with the Yxy color 45.3364, 0.3462, 0.5116.

# 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

45.3364, 0.3462, 0.5116

### Protanopia

44.8784, 0.4213, 0.4630

### Deuteranopia

44.8149, 0.4411, 0.4313



## Tritanopia

44.9838, 0.2758, 0.3085

# Trichromacy



**Original Color**

45.3364, 0.3462, 0.5116

**Protanomaly**

44.7296, 0.3922, 0.4817

**Deuteranomaly**

44.0841, 0.4048, 0.4601

**Tritanomaly**

44.5588, 0.3045, 0.3846

# Monochromacy



**Original Color**

45.3364, 0.3462, 0.5116

**Achromatopsia**

36.6253, 0.3127, 0.3290

**Achromatomaly**

38.8939, 0.3307, 0.3997

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 45.3364, 0.3462, 0.5116 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(133, 197, 68)` looks like.

```
.text, #text, p{  
    color:rgb(133, 197, 68)  
}
```

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(133, 197, 68) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(133, 197, 68) }
```

## Border

The CSS property to change the border of an element to Yxy 45.3364, 0.3462, 0.5116 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(133, 197, 68) }
```

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

```
.border{ border-color:rgb(133, 197, 68) }
```

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

Here you see how a box with a 4 pixel rgb(133, 197, 68) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(133, 197, 68); -webkit-box-  
shadow:4px 4px 4px 4px rgb(133, 197, 68);  
box-shadow:4px 4px 4px 4px rgb(133, 197,  
68) }
```



# Background

The CSS property to change the background color of an element to Yxy 45.3364, 0.3462, 0.5116 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(133, 197, 68) }
```

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

```
.background{ background-color: rgb(133,  
197, 68) }
```

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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