

# Converting Colors

$Y_{xy}(47.6969, 0.3457, 0.5460)$

Have a look what the booklet for  
Yxy(47.6969, 0.3457, 0.5460)  
contains.

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**Color**

**Yxy(47.5366, 0.3458, 0.5460)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	7BCC26
RGB	123, 204, 38
RGB Percent	48%, 80%, 15%
CMY	0.5178, 0.2000, 0.8510
CMYK	0.40, 0.00, 0.81, 0.20
HSL	89°, 69%, 47%
HSV	89°, 81%, 80%
XYZ	30.1065, 47.5366, 9.4203
YIQ	160.8570, 5.0100, -68.7980

# Conversions

## Conversions Part 2

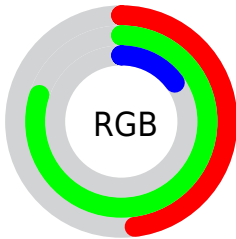
<b>Format</b>	<b>Color</b>
<b>RYB</b>	38, 204, 119
Decimal	8113190
CIELab	74.53, -49.39, 67.63
CIELCh	75, 83.746, 126.138
Yxy	47.5366, 0.3458, 0.5460
Android (android.graphics.Color)	4286303270 (0xFF7BCC26)
YUV	160.8570, -60.5685, -33.2006
Hunter-Lab	68.9468, -42.7125, 40.1619

# Details

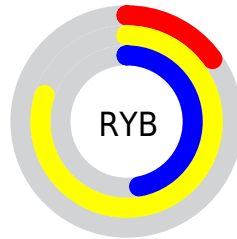
The Yxy color **47.5366, 0.3458, 0.5460** is a dark color, and the websafe version is hex **66CC33**. The color can be described as dark muted chartreuse. A complement of this color would be **9.6696, 0.2211, 0.1113**, and the grayscale version is **35.8517, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.2446, 0.3480, 0.5015**, and **22.5849, 0.3287, 0.5772** is the 20% darker color. If you saturate the color by 10%, you get **46.7439, 0.3422, 0.5610**, and if you desaturate by 10%, it is **48.4802, 0.3473, 0.5256**.

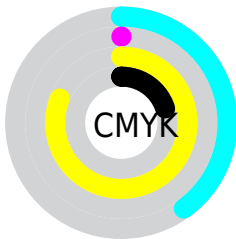
# Distribution



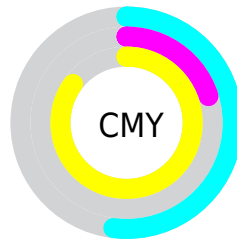
- Red (48%)
- Green (80%)
- Blue (15%)



- Red (15%)
- Yellow (80%)
- Blue (47%)



- Cyan (40%)
- Magenta (0%)
- Yellow (81%)
- Black (20%)




- Cyan (52%)
- Magenta (20%)
- Yellow (85%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 47.5366, 0.3458, 0.5460 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 47.5366, 0.3458, 0.5460 by changing the saturation by 10% instead.





 47.5366, 0.3458,  
0.5460


 47.5366, 0.3458,  
0.5460

376.9524, 0.3390,  
0.4342


 33.4601, 0.3434,  
0.5725


 86.5140, 0.3463,  
0.5059

 22.4791, 0.3377,  
0.6047


 112.1837, 0.3455,  
0.4905

 14.2094, 0.3264,  
0.6446


 142.4866, 0.3445,  
0.4775

 8.2664, 0.3053,  
0.6947

 177.8070, 0.3434,  
0.4664

 4.2659, 0.2597,  
0.7403

 218.5294, 0.3423,  
0.4567

 1.8234, 0.1507,  
0.8493

 265.0382, 0.3412,

 0.5017, 0.0000,

0.4482

1.0000

317.7177, 0.3401,  
0.4408

■ 0.0000, 0.0000,  
0.0000

■ 47.5366, 0.3458,  
0.5460

■ 47.5366, 0.3458,  
0.5460

■ 46.7439, 0.3422,  
0.5610

■ 48.4802, 0.3473,  
0.5256

■ 46.1590, 0.3378,  
0.5700

■ 49.5810, 0.3465,  
0.5008

■ 50.8518, 0.3437,  
0.4729

■ 52.3020, 0.3393,  
0.4434

■ 53.9404, 0.3337,  
0.4137

■ 55.7750, 0.3273,  
0.3849

■ 57.8132, 0.3206,  
0.3576

■ 60.0621, 0.3137,  
0.3323

■ 62.5284, 0.3069,  
0.3092

# Harmonies

## Analogous

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



47.5366, 0.4439, 0.5007



47.5366, 0.3458, 0.5460



47.5366, 0.2448, 0.4960

# Triad

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



47.5366, 0.3458, 0.5460



47.5366, 0.1358, 0.1876



47.5366, 0.4704, 0.2770

# Complementary

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



47.5366, 0.3458, 0.5460



9.6696, 0.2211, 0.1113

# 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.



47.5366, 0.3545, 0.2179



47.5366, 0.3458, 0.5460



47.5366, 0.1712, 0.1682

# Square

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



47.5366, 0.3458, 0.5460



47.5366, 0.1335, 0.2487



47.5366, 0.2442, 0.1797



47.5366, 0.5325, 0.3469

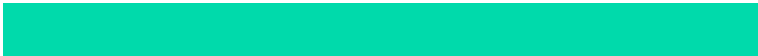


# Rectangle

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



47.5366, 0.3458, 0.5460



47.5366, 0.1894, 0.4105



47.5366, 0.2442, 0.1797



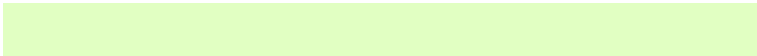
47.5366, 0.4348, 0.2556

# Sweetspot

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



47.5387, 0.3458, 0.5460



91.4335, 0.3293, 0.3932



25.9897, 0.5047, 0.4130



19.3352, 0.3316, 0.4036



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.



47.5387, 0.3458, 0.5460



76.5181, 0.3380, 0.5689



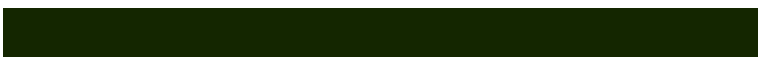
43.7970, 0.3017, 0.5783



12.8145, 0.3192, 0.3524



29.1052, 0.3388, 0.5692



1.5466, 0.3536, 0.5574



# Inverse Universe

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



9.6696, 0.2211, 0.1113



11.8501, 0.2002, 0.0883



18.1966, 0.3172, 0.1615



11.1083, 0.3057, 0.3056



4.4896, 0.2008, 0.0880



0.2767, 0.2225, 0.1000



# Previews

## White Background



This preview shows how the Yxy color 47.5366, 0.3458, 0.5460 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 47.5366, 0.3458, 0.5460 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 47.5366, 0.3458, 0.5460**

## **Background**



This preview shows how black text looks on a background with the Yxy color 47.5366, 0.3458, 0.5460.



This preview shows how white text looks on a background with the Yxy color 47.5366, 0.3458, 0.5460.

# 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

47.5366, 0.3458, 0.5460

### Protanopia

46.9504, 0.4345, 0.4815

### Deuteranopia

46.8115, 0.4576, 0.4470



## Tritanopia

47.2544, 0.2686, 0.3087

# Trichromacy



## Original Color

47.5366, 0.3458, 0.5460

## Protanomaly

46.4911, 0.3993, 0.5073

## Deuteranomaly

45.4415, 0.4145, 0.4841

## Tritanomaly

46.3622, 0.3039, 0.4041

# Monochromacy



## Original Color

47.5366, 0.3458, 0.5460

## Achromatopsia

35.6400, 0.3127, 0.3290

## Achromatomaly

38.9083, 0.3351, 0.4219

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 47.5366, 0.3458, 0.5460 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(123, 204, 38)` looks like.

```
.text, #text, p{  
    color:rgb(123, 204, 38)  
}
```

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(123, 204, 38) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(123, 204, 38) }
```

## Border

The CSS property to change the border of an element to Yxy 47.5366, 0.3458, 0.5460 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(123, 204, 38) }
```

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

```
.border{ border-color:rgb(123, 204, 38) }
```

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

Here you see how a box with a 4 pixel `rgb(123, 204, 38)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(123, 204, 38); -webkit-box-  
shadow:4px 4px 4px 4px rgb(123, 204, 38);  
box-shadow:4px 4px 4px 4px rgb(123, 204,  
38) }
```



# Background

The CSS property to change the background color of an element to Yxy 47.5366, 0.3458, 0.5460 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(123, 204, 38) }
```

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

```
.background{ background-color: rgb(123,  
204, 38) }
```

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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