

# Converting Colors

$Y_{xy}(47.9833, 0.3572, 0.5546)$

Have a look what the booklet for  
Yxy(47.9833, 0.3572, 0.5546)  
contains.

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# Color

**Yxy(48.0110, 0.3574, 0.5544)**

# Conversions

## Conversions Part 1

Format	Color
Hex	83CC00
RGB	131, 204, 0
RGB Percent	51%, 80%, 0%
CMY	0.4864, 0.2000, 0.9996
CMYK	0.36, 0.00, 1.00, 0.20
HSL	81°, 100%, 40%
HSV	81°, 100%, 80%
XYZ	30.9508, 48.0110, 7.6381
YIQ	158.9170, 21.9760, -78.9200

# Conversions

## Conversions Part 2

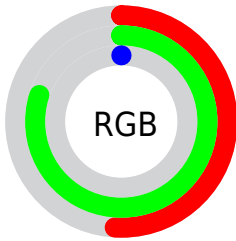
Format	Color
<b>RYB</b>	0, 204, 73
Decimal	8637440
CIELab	74.83, -47.53, 74.12
CIELCh	75, 88.050, 122.667
Yxy	48.0110, 0.3574, 0.5544
Android (android.graphics.Color)	4286827520 (0xFF83CC00)
YUV	158.9170, -78.3461, -24.4832
Hunter-Lab	69.2900, -41.5241, 41.9672

# Details

The Yxy color **48.0110, 0.3574, 0.5544** is a dark color, and the websafe version is hex **99CC00**. The color can be described as dark washed chartreuse. A complement of this color would be **5.7840, 0.1775, 0.0751**, and the grayscale version is **34.9932, 0.3127, 0.3290**.

A 20% lighter version of the original color is **83.0917, 0.3597, 0.5104**, and **22.8726, 0.3355, 0.5718** is the 20% darker color. If you saturate the color by 10%, you get **48.0099, 0.3574, 0.5544**, and if you desaturate by 10%, it is **48.6693, 0.3612, 0.5450**.

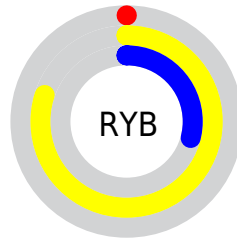
# Distribution



Red (51%)

Green (80%)

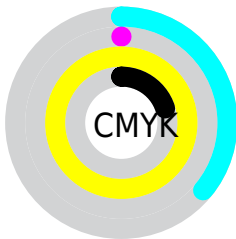
Blue (0%)



Red (0%)

Yellow (80%)

Blue (29%)

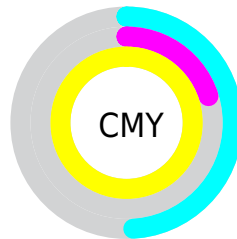


Cyan (36%)

Magenta (0%)

Yellow (100%)

Black (20%)



Cyan (49%)

Magenta (20%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 48.0110, 0.3574, 0.5544 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 48.0110, 0.3574, 0.5544 by changing the saturation by 10% instead.




 48.0110, 0.3574,  
0.5544


 48.0110, 0.3574,  
0.5544

378.8357, 0.3468,  
0.4407


 33.8356, 0.3551,  
0.5801


 87.2208, 0.3571,  
0.5145


 22.7673, 0.3492,  
0.6104


 113.0240, 0.3559,  
0.4989


 14.4218, 0.3394,  
0.6506

 143.4718, 0.3544,  
0.4856

 8.4146, 0.3134,  
0.6866

 178.9488, 0.3528,  
0.4741

 4.3614, 0.2699,  
0.7301

 219.8393, 0.3513,  
0.4641

 1.8777, 0.1758,  
0.8242

 266.5277, 0.3497,

 0.5349, 0.0000,

0.4553

1.0000

319.3984, 0.3482,  
0.4476

■ 0.0000, 0.0000,  
0.0000

■ 48.0110, 0.3574,  
0.5544

■ 48.0110, 0.3574,  
0.5544

■ 48.0099, 0.3574,  
0.5544

■ 48.6693, 0.3612,  
0.5450

■ 49.4224, 0.3630,  
0.5312

■ 50.2920, 0.3623,  
0.5124

■ 51.2888, 0.3593,  
0.4895

■ 52.4221, 0.3541,  
0.4636

■ 53.7001, 0.3473,  
0.4360

■ 55.1301, 0.3393,  
0.4079

■ 56.7190, 0.3306,  
0.3802

■ 58.4730, 0.3216,  
0.3537

# Harmonies

## Analogous

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



48.0110, 0.4576, 0.4969



48.0110, 0.3574, 0.5544



48.0110, 0.2521, 0.5177

# Triad

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



48.0110, 0.3574, 0.5544



48.0110, 0.1280, 0.1867



48.0110, 0.4654, 0.2666

# Complementary

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



48.0110, 0.3574, 0.5544



5.7840, 0.1775, 0.0751

# 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.



48.0110, 0.3413, 0.2079



48.0110, 0.3574, 0.5544



48.0110, 0.1600, 0.1632

# Square

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



48.0110, 0.3574, 0.5544



48.0110, 0.1293, 0.2552



48.0110, 0.2302, 0.1718



48.0110, 0.5389, 0.3371

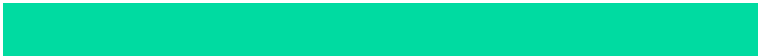


# Rectangle

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



48.0110, 0.3574, 0.5544



48.0110, 0.1924, 0.4317



48.0110, 0.2302, 0.1718



48.0110, 0.4263, 0.2451

# Sweetspot

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



48.0131, 0.3574, 0.5544



91.1832, 0.3397, 0.4091



17.4053, 0.5844, 0.3741



19.2948, 0.3432, 0.4211



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.



48.0131, 0.3574, 0.5544



79.3774, 0.3566, 0.5550



43.4761, 0.3040, 0.5968



12.8880, 0.3211, 0.3523



30.2694, 0.3582, 0.5538



1.6033, 0.3703, 0.5442



# Inverse Universe

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



5.7840, 0.1775, 0.0751



9.4610, 0.1762, 0.0744



13.2947, 0.2830, 0.1333



11.0362, 0.3037, 0.3054



3.6850, 0.1788, 0.0759



0.2325, 0.2013, 0.0883



# Previews

## White Background



This preview shows how the Yxy color 48.0110, 0.3574, 0.5544 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

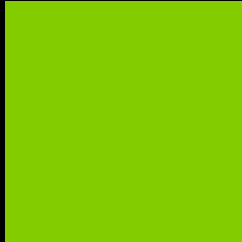
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 48.0110, 0.3574, 0.5544 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

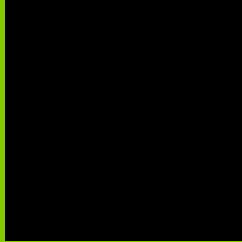
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 48.0110, 0.3574, 0.5544**

## Background



This preview shows how black text looks on a background with the Yxy color 48.0110, 0.3574, 0.5544.



This preview shows how white text looks on a background with the Yxy color 48.0110, 0.3574, 0.5544.

# 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

48.0110, 0.3574, 0.5544

### Protanopia

47.5464, 0.4405, 0.4885

### Deuteranopia

47.4142, 0.4639, 0.4538



## Tritanopia

47.9101, 0.2733, 0.3090

# Trichromacy



## Original Color

48.0110, 0.3574, 0.5544

## Protanomaly

46.8453, 0.4084, 0.5140

## Deuteranomaly

46.3702, 0.4251, 0.4925

## Tritanomaly

46.5712, 0.3190, 0.4238

# Monochromacy



## Original Color

48.0110, 0.3574, 0.5544

## Achromatopsia

34.6704, 0.3127, 0.3290

## Achromatomaly

37.9891, 0.3492, 0.4411

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 48.0110, 0.3574, 0.5544 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(131, 204, 0)` looks like.

```
.text, #text, p{  
    color:rgb(131, 204, 0)  
}
```

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(131, 204, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(131, 204, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 48.0110, 0.3574, 0.5544 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(131, 204, 0) }
```

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

```
.border{ border-color:rgb(131, 204, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(131, 204, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(131, 204, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(131, 204, 0);  
box-shadow:4px 4px 4px 4px rgb(131, 204,  
0) }
```



# Background

The CSS property to change the background color of an element to Yxy 48.0110, 0.3574, 0.5544 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(131, 204, 0) }
```

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

```
.background{ background-color: rgb(131,  
204, 0) }
```

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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