

# Converting Colors

$Y_{xy}(50.2320, 0.3923, 0.4322)$

Have a look what the booklet for  
Yxy(50.2320, 0.3923, 0.4322)  
contains.

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**Color**

**Yxy(50.2320, 0.3923, 0.4322)**

# Conversions

## Conversions Part 1

Format	Color
Hex	CCBD68
RGB	204, 189, 104
RGB Percent	80%, 74%, 41%
CMY	0.2001, 0.2588, 0.5920
CMYK	0.00, 0.07, 0.49, 0.20
HSL	51°, 49%, 60%
HSV	51°, 49%, 80%
XYZ	45.5947, 50.2320, 20.3973
YIQ	183.7950, 36.2250, -23.2550

# Conversions

## Conversions Part 2

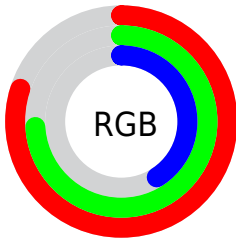
Format	Color
<b>R<sub>YB</sub></b>	122, 204, 104
Decimal	13417832
CIE Lab	76.21, -6.06, 44.55
CIE LCh	76, 44.958, 97.742
Yxy	50.2320, 0.3923, 0.4322
Android (android.graphics.Color)	4291607912 (0xFFCCBD68)
YUV	183.7950, -39.3389, 17.7198
Hunter-Lab	70.8745, -9.1987, 32.5488

# Details

The Yxy color **50.2320, 0.3923, 0.4322** is a light color, and the websafe version is hex **CCCC66**. A complement of this color would be **20.4966, 0.2241, 0.1979**, and the grayscale version is **48.0211, 0.3127, 0.3290**.

A 20% lighter version of the original color is **88.9991, 0.3740, 0.4162**, and **24.1706, 0.4101, 0.4572** is the 20% darker color. If you saturate the color by 10%, you get **48.5682, 0.4078, 0.4498**, and if you desaturate by 10%, it is **52.0284, 0.3758, 0.4122**.

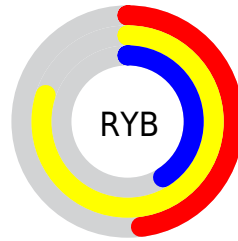
# Distribution



Red (80%)

Green (74%)

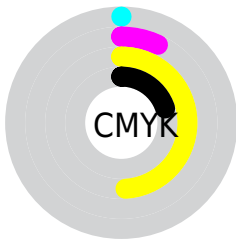
Blue (41%)



Red (48%)

Yellow (80%)

Blue (41%)

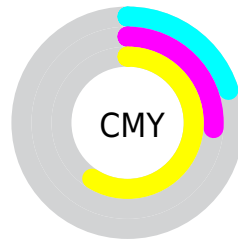


Cyan (0%)

Magenta (7%)

Yellow (49%)

Black (20%)



Cyan (20%)

Magenta (26%)


Yellow (59%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 50.2320, 0.3923, 0.4322 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 50.2320, 0.3923, 0.4322 by changing the saturation by 10% instead.





 50.2320, 0.3923,  
0.4322


 50.2320, 0.3923,  
0.4322


387.5725, 0.3549,  
0.3821

 35.5978, 0.4005,  
0.4437


 90.5185, 0.3795,  
0.4146


 24.1237, 0.4102,  
0.4578


 116.9396, 0.3744,  
0.4078

 15.4254, 0.4216,  
0.4750


 148.0584, 0.3700,  
0.4020

 9.1185, 0.4344,  
0.4960

 184.2594, 0.3662,  
0.3969

 4.8186, 0.4597,  
0.5353

225.9269, 0.3629,  
0.3925

 2.1412, 0.4540,  
0.5460

273.4453, 0.3599,

 0.6876, 0.4238,

0.3887

0.5762

327.1991, 0.3572,  
0.3852

0.0000, 0.0000,  
0.0000

50.2320, 0.3923,  
0.4322

50.2320, 0.3923,  
0.4322

48.5682, 0.4078,  
0.4498

52.0284, 0.3758,  
0.4122

47.0225, 0.4217,  
0.4642

53.9571, 0.3589,  
0.3910

45.5887, 0.4332,  
0.4745

56.0268, 0.3423,  
0.3692

44.2568, 0.4419,  
0.4802

58.2432, 0.3263,  
0.3477

43.0103, 0.4481,  
0.4819

60.6117, 0.3113,  
0.3270

■ 42.8879, 0.4486,  
0.4820

■ 63.1373, 0.2973,  
0.3073

■ 65.8249, 0.2845,  
0.2890

■ 67.8672, 0.2798,  
0.2841

■ 69.4224, 0.2800,  
0.2875

# Harmonies

## Analogous

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



50.2320, 0.4284, 0.3974



50.2320, 0.3923, 0.4322



50.2320, 0.3367, 0.4394

# Triad

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



50.2320, 0.3923, 0.4322



50.2320, 0.2065, 0.2877



50.2320, 0.3409, 0.2660

# Complementary

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



50.2320, 0.3923, 0.4322



20.4966, 0.2241, 0.1979

# 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.



50.2320, 0.2795, 0.2406



50.2320, 0.3923, 0.4322



50.2320, 0.2073, 0.2487

# Square

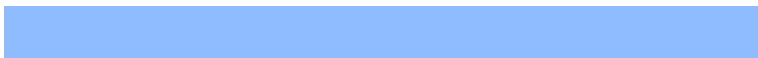
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



50.2320, 0.3923, 0.4322



50.2320, 0.2308, 0.3468



50.2320, 0.2324, 0.2337



50.2320, 0.3990, 0.3052



# Rectangle

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



50.2320, 0.3923, 0.4322



50.2320, 0.2967, 0.4220



50.2320, 0.2324, 0.2337



50.2320, 0.3197, 0.2557

# Sweetspot

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



50.2343, 0.3923, 0.4322



94.1767, 0.3361, 0.3610



24.0737, 0.4275, 0.3102



19.9924, 0.3396, 0.3656



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.



50.2343, 0.3923, 0.4322



80.2500, 0.4090, 0.4511



52.6095, 0.3542, 0.4607



12.7993, 0.3269, 0.3485



27.1094, 0.4482, 0.4824



1.4782, 0.4417, 0.4875



# Inverse Universe

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



20.4966, 0.2241, 0.1979



25.3950, 0.2032, 0.1642



19.7557, 0.2505, 0.1868



11.1106, 0.2982, 0.3087



3.4316, 0.1537, 0.0732



0.2659, 0.1621, 0.1036



# Previews

## White Background



This preview shows how the Yxy color 50.2320, 0.3923, 0.4322 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

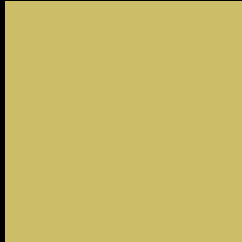
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 50.2320, 0.3923, 0.4322 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 50.2320, 0.3923, 0.4322**

## **Background**



This preview shows how black text looks on a background with the Yxy color 50.2320, 0.3923, 0.4322.



This preview shows how white text looks on a background with the Yxy color 50.2320, 0.3923, 0.4322.

# 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

50.2320, 0.3923, 0.4322

### Protanopia

50.2313, 0.3957, 0.4301

### Deuteranopia

49.9388, 0.4198, 0.4108



## Tritanopia

50.2366, 0.3308, 0.3125

# Trichromacy



## Original Color

50.2320, 0.3923, 0.4322

## Protanomaly

50.0877, 0.3947, 0.4304

## Deuteranomaly

50.1025, 0.4098, 0.4191

## Tritanomaly

50.1418, 0.3546, 0.3560

# Monochromacy



## Original Color

50.2320, 0.3923, 0.4322

## Achromatopsia

47.9320, 0.3127, 0.3290

## Achromatomaly

48.5607, 0.3418, 0.3692

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 50.2320, 0.3923, 0.4322 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(204, 189, 104)` looks like.

```
.text, #text, p{  
    color:rgb(204, 189, 104)  
}
```

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(204, 189, 104) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(204, 189, 104) }
```

## Border

The CSS property to change the border of an element to Yxy 50.2320, 0.3923, 0.4322 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(204, 189, 104) }
```

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

```
.border{ border-color:rgb(204, 189, 104) }
```

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

Here you see how a box with a 4 pixel `rgb(204, 189, 104)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(204, 189, 104); -webkit-box-  
shadow:4px 4px 4px 4px rgb(204, 189, 104);  
box-shadow:4px 4px 4px 4px rgb(204, 189,  
104) }
```



# Background

The CSS property to change the background color of an element to Yxy 50.2320, 0.3923, 0.4322 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(204, 189, 104) }
```

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

```
.background{ background-color: rgb(204,  
189, 104) }
```

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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