

# Converting Colors

$Y_{xy}(46.6170, 0.4230, 0.5023)$

Have a look what the booklet for  
Yxy(46.6170, 0.4230, 0.5023)  
contains.

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**Color**

**Yxy(46.6170, 0.4230, 0.5023)**

# Conversions

## Conversions Part 1

Format	Color
Hex	BFBB00
RGB	191, 187, 0
RGB Percent	75%, 73%, 0%
CMY	0.2510, 0.2667, 0.9994
CMYK	0.00, 0.02, 1.00, 0.25
HSL	59°, 100%, 37%
HSV	59°, 100%, 75%
XYZ	39.2574, 46.6170, 6.9327
YIQ	166.8780, 62.4110, -57.3090

# Conversions

## Conversions Part 2

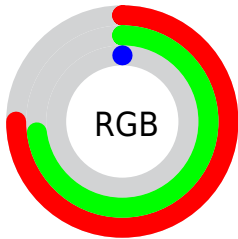
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	4, 191, 0
Decimal	12565248
CIE Lab	73.94, -15.33, 75.21
CIE LCh	74, 76.760, 101.520
Yxy	46.6170, 0.4230, 0.5023
Android (android.graphics.Color)	4290755328 (0xFFBFBB00)
YUV	166.8780, -82.2709, 21.1550
Hunter-Lab	68.2766, -16.8510, 41.7734

# Details

The Yxy color **46.6170, 0.4230, 0.5023** is a dark color, and the websafe version is hex **CCCC33**. A complement of this color would be **3.8528, 0.1504, 0.0613**, and the grayscale version is **38.9766, 0.3127, 0.3290**.

A 20% lighter version of the original color is **85.2045, 0.4099, 0.4763**, and **22.0367, 0.4181, 0.5063** is the 20% darker color. If you saturate the color by 10%, you get **46.6175, 0.4230, 0.5023**, and if you desaturate by 10%, it is **46.8368, 0.4203, 0.4989**.

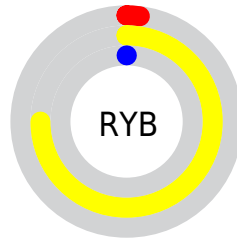
# Distribution



Red (75%)

Green (73%)

Blue (0%)



Red (2%)

Yellow (75%)

Blue (0%)

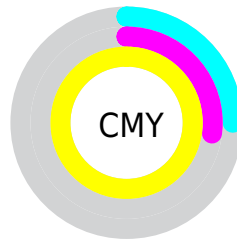


Cyan (0%)

Magenta (2%)

Yellow (100%)

Black (25%)



Cyan (25%)

Magenta (27%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 46.6170, 0.4230, 0.5023 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 46.6170, 0.4230, 0.5023 by changing the saturation by 10% instead.





 46.6170, 0.4230,  
0.5023


 46.6170, 0.4230,  
0.5023


373.2837, 0.3780,  
0.4222


 32.7330, 0.4293,  
0.5178


 85.1416, 0.4101,  
0.4761


 21.9220, 0.4344,  
0.5345


 110.5511, 0.4041,  
0.4654


 13.7996, 0.4410,  
0.5574


 140.5711, 0.3987,  
0.4558

 7.9814, 0.4323,  
0.5677

 175.5860, 0.3937,  
0.4475

 4.0830, 0.4181,  
0.5819

 215.9804, 0.3892,  
0.4400

 1.7201, 0.3941,  
0.6059

 262.1385, 0.3851,

 0.4366, 0.0855,

0.4334

0.9145

314.4448, 0.3813,  
0.4275

■ 0.0000, 0.0000,  
0.0000

■ 46.6170, 0.4230,  
0.5023

■ 46.6170, 0.4230,  
0.5023

■ 46.6175, 0.4230,  
0.5023

■ 46.8368, 0.4203,  
0.4989

■ 47.1017, 0.4155,  
0.4920

■ 47.4304, 0.4081,  
0.4808

■ 47.8315, 0.3982,  
0.4654

■ 48.3121, 0.3861,  
0.4465

■ 48.8785, 0.3725,  
0.4248

■ 49.5365, 0.3577,  
0.4014

■ 50.2911, 0.3425,  
0.3770

■ 51.1472, 0.3273,  
0.3526

# Harmonies

## Analogous

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



46.6170, 0.4953, 0.4341



46.6170, 0.4230, 0.5023



46.6170, 0.3289, 0.5278

# Triad

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



46.6170, 0.4230, 0.5023



46.6170, 0.1419, 0.2417



46.6170, 0.3723, 0.2337

# Complementary

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



46.6170, 0.4230, 0.5023



3.8528, 0.1504, 0.0613

# 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.



46.6170, 0.2657, 0.1931



46.6170, 0.4230, 0.5023



46.6170, 0.1494, 0.1909

# Square

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



46.6170, 0.4230, 0.5023



46.6170, 0.1691, 0.3399



46.6170, 0.1895, 0.1775



46.6170, 0.4738, 0.2928



# Rectangle

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



46.6170, 0.4230, 0.5023



46.6170, 0.2650, 0.4948



46.6170, 0.1895, 0.1775



46.6170, 0.3348, 0.2177

# Sweetspot

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



46.6192, 0.4230, 0.5023



88.6475, 0.3586, 0.4027



11.0943, 0.6366, 0.3281



19.3521, 0.3649, 0.4128



97.7402, 0.3127, 0.3290



20.4902, 0.3127, 0.3290



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



46.6192, 0.4230, 0.5023



83.4415, 0.4231, 0.5023



40.0844, 0.3411, 0.5673



11.0853, 0.3265, 0.3512



30.6511, 0.4230, 0.5024



1.2116, 0.4220, 0.5031



# Inverse Universe

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



3.8528, 0.1504, 0.0613



6.8495, 0.1503, 0.0609



5.8996, 0.1959, 0.0853



9.2565, 0.2984, 0.3058



2.5440, 0.1505, 0.0616



0.1108, 0.1521, 0.0677



# Previews

## White Background



This preview shows how the Yxy color 46.6170, 0.4230, 0.5023 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 46.6170, 0.4230, 0.5023 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 46.6170, 0.4230, 0.5023**

## Background



This preview shows how black text looks on a background with the Yxy color 46.6170, 0.4230, 0.5023.



This preview shows how white text looks on a background with the Yxy color 46.6170, 0.4230, 0.5023.

# 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

46.6170, 0.4230, 0.5023

### Protanopia

46.4350, 0.4407, 0.4883

### Deuteranopia

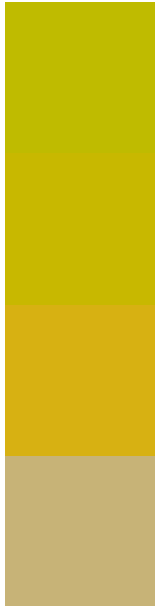
46.2469, 0.4678, 0.4576



## Tritanopia

46.5565, 0.3277, 0.3130

# Trichromacy



## Original Color

46.6170, 0.4230, 0.5023

## Protanomaly

46.5603, 0.4341, 0.4935

## Deuteranomaly

45.9350, 0.4525, 0.4740

## Tritanomaly

45.7142, 0.3815, 0.4055

# Monochromacy



## Original Color

46.6170, 0.4230, 0.5023

## Achromatopsia

38.6429, 0.3127, 0.3290

## Achromatomaly

40.5428, 0.3722, 0.4233

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 46.6170, 0.4230, 0.5023 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(191, 187, 0)` looks like.

```
.text, #text, p{  
    color:rgb(191, 187, 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(191, 187, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(191, 187, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 46.6170, 0.4230, 0.5023 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(191, 187, 0) }
```

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

```
.border{ border-color:rgb(191, 187, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(191, 187, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(191, 187, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(191, 187, 0);  
box-shadow:4px 4px 4px 4px rgb(191, 187,  
0) }
```



# Background

The CSS property to change the background color of an element to Yxy 46.6170, 0.4230, 0.5023 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(191, 187, 0) }
```

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

```
.background{ background-color: rgb(191,  
187, 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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