

# Converting Colors

$Y_{xy}(42.2136, 0.4219, 0.5063)$

Have a look what the booklet for  
Yxy(42.2136, 0.4219, 0.5063)  
contains.

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**Color**

**Yxy(42.0640, 0.4212, 0.5037)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B5B300
RGB	181, 179, 0
RGB Percent	71%, 70%, 0%
CMY	0.2903, 0.2980, 0.9991
CMYK	0.00, 0.01, 1.00, 0.29
HSL	59°, 100%, 36%
HSV	59°, 100%, 71%
XYZ	35.1744, 42.0640, 6.2716
YIQ	159.1920, 58.6510, -55.2450

# Conversions

## Conversions Part 2

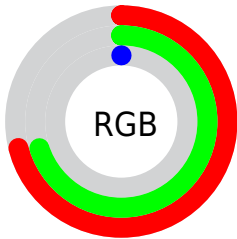
Format	Color
R <sub>Y</sub> B	2, 181, 0
Decimal	11907840
CIE Lab	70.92, -15.66, 72.61
CIE LCh	71, 74.283, 102.168
Yxy	42.0640, 0.4212, 0.5037
Android (android.graphics.Color)	4290097920 (0xFFB5B300)
YUV	159.1920, -78.4817, 19.1256
Hunter-Lab	64.8568, -16.6916, 39.6664

# Details

The Yxy color **42.0640, 0.4212, 0.5037** is a dark color, and the websafe version is hex **CCCC33**. A complement of this color would be **3.3851, 0.1503, 0.0608**, and the grayscale version is **35.1225, 0.3127, 0.3290**.

A 20% lighter version of the original color is **78.1109, 0.4088, 0.4758**, and **19.3897, 0.4140, 0.5095** is the 20% darker color. If you saturate the color by 10%, you get **42.0644, 0.4212, 0.5037**, and if you desaturate by 10%, it is **42.1896, 0.4186, 0.5000**.

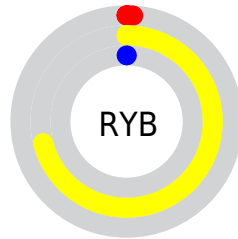
# Distribution



Red (71%)

Green (70%)

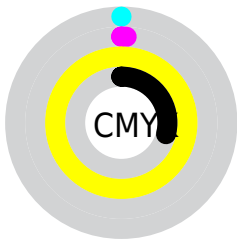
Blue (0%)



Red (1%)

Yellow (71%)

Blue (0%)

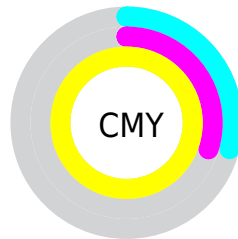


Cyan (0%)

Magenta (1%)

Yellow (100%)

Black (29%)



Cyan (29%)

Magenta (30%)


Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 42.0640, 0.4212, 0.5037 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 42.0640, 0.4212, 0.5037 by changing the saturation by 10% instead.





 42.0640, 0.4212,  
0.5037

 42.0640, 0.4212,  
0.5037


354.7482, 0.3761,  
0.4211


 29.1514, 0.4275,  
0.5200


 78.2965, 0.4082,  
0.4764


 19.1954, 0.4324,  
0.5378

 102.3852, 0.4022,  
0.4652


 11.8115, 0.4382,  
0.5618


 130.9680, 0.3967,  
0.4554

 6.6155, 0.4274,  
0.5726

 164.4293, 0.3917,  
0.4468

 3.2228, 0.4106,  
0.5894

 203.1537, 0.3872,  
0.4392

 1.2491, 0.3802,  
0.6198

 247.5253, 0.3832,

 0.1013, 0.0000,

0.4325

1.0000

297.9287, 0.3795,  
0.4265

■ 0.0000, 0.0000,  
0.0000

■ 42.0640, 0.4212,  
0.5037

■ 42.0640, 0.4212,  
0.5037

■ 42.0644, 0.4212,  
0.5037

■ 42.1896, 0.4186,  
0.5000

■ 42.3543, 0.4140,  
0.4929

■ 42.5752, 0.4068,  
0.4815

■ 42.8597, 0.3971,  
0.4660

■ 43.2140, 0.3853,  
0.4470

■ 43.6436, 0.3718,  
0.4252

■ 44.1536, 0.3573,  
0.4016

■ 44.7485, 0.3422,  
0.3771

■ 45.4324, 0.3272,  
0.3526

# Harmonies

## Analogous

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



42.0640, 0.4943, 0.4358



42.0640, 0.4212, 0.5037



42.0640, 0.3268, 0.5278

# Triad

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



42.0640, 0.4212, 0.5037



42.0640, 0.1416, 0.2399



42.0640, 0.3748, 0.2347

# Complementary

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



42.0640, 0.4212, 0.5037



3.3851, 0.1503, 0.0608

# 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.



42.0640, 0.2676, 0.1935



42.0640, 0.4212, 0.5037



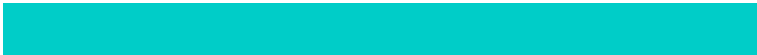
42.0640, 0.1497, 0.1901

# Square

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



42.0640, 0.4212, 0.5037



42.0640, 0.1680, 0.3373



42.0640, 0.1906, 0.1774



42.0640, 0.4758, 0.2942



# Rectangle

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



42.0640, 0.4212, 0.5037



42.0640, 0.2629, 0.4933



42.0640, 0.1906, 0.1774



42.0640, 0.3372, 0.2185

# Sweetspot

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



42.0660, 0.4212, 0.5037



79.0319, 0.3582, 0.4031



9.8341, 0.6380, 0.3290



16.9967, 0.3643, 0.4131



91.1408, 0.3127, 0.3290



17.8868, 0.3127, 0.3290



# Same Dimension

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



42.0660, 0.4212, 0.5037



75.3279, 0.4213, 0.5037



35.4015, 0.3391, 0.5689



9.8904, 0.3264, 0.3513



29.0113, 0.4212, 0.5038



0.9178, 0.4206, 0.5042



# Inverse Universe

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



3.3851, 0.1503, 0.0608



6.0307, 0.1502, 0.0605



5.3959, 0.1994, 0.0873



8.2445, 0.2985, 0.3057



2.3362, 0.1503, 0.0609



0.0784, 0.1513, 0.0645



# Previews

## White Background



This preview shows how the Yxy color 42.0640, 0.4212, 0.5037 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 42.0640, 0.4212, 0.5037 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 42.0640, 0.4212, 0.5037**

## **Background**



This preview shows how black text looks on a background with the Yxy color 42.0640, 0.4212, 0.5037.



This preview shows how white text looks on a background with the Yxy color 42.0640, 0.4212, 0.5037.

# 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

42.0640, 0.4212, 0.5037

### Protanopia

42.0079, 0.4406, 0.4884

### Deuteranopia

42.0495, 0.4669, 0.4580



## Tritanopia

41.8646, 0.3265, 0.3123

# Trichromacy



## Original Color

42.0640, 0.4212, 0.5037

## Protanomaly

42.1270, 0.4338, 0.4938

## Deuteranomaly

41.7691, 0.4510, 0.4751

## Tritanomaly

41.1595, 0.3799, 0.4052

# Monochromacy



## Original Color

42.0640, 0.4212, 0.5037

## Achromatopsia

34.6704, 0.3127, 0.3290

## Achromatomaly

36.4275, 0.3711, 0.4235

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 42.0640, 0.4212, 0.5037 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(181, 179, 0)` looks like.

```
.text, #text, p{  
    color:rgb(181, 179, 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(181, 179, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(181, 179, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 42.0640, 0.4212, 0.5037 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(181, 179, 0) }
```

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

```
.border{ border-color:rgb(181, 179, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(181, 179, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(181, 179, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(181, 179, 0);  
box-shadow:4px 4px 4px 4px rgb(181, 179,  
0) }
```



# Background

The CSS property to change the background color of an element to Yxy 42.0640, 0.4212, 0.5037 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(181, 179, 0) }
```

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

```
.background{ background-color: rgb(181,  
179, 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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