

# Converting Colors

$Y_{xy}(46.6752, 0.4017, 0.5099)$

Have a look what the booklet for  
Yxy(46.6752, 0.4017, 0.5099)  
contains.

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# Color

**Yxy(46.5708, 0.4019, 0.5096)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B0BF1B
RGB	176, 191, 27
RGB Percent	69%, 75%, 11%
CMY	0.3099, 0.2509, 0.8942
CMYK	0.08, 0.00, 0.86, 0.25
HSL	66°, 75%, 43%
HSV	66°, 86%, 75%
XYZ	36.7284, 46.5708, 8.0877
YIQ	167.8190, 43.7040, -54.1840

# Conversions

## Conversions Part 2

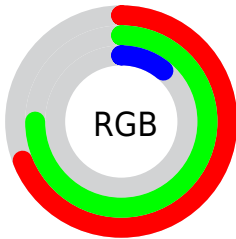
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	27, 191, 42
Decimal	11583259
CIE Lab	73.91, -23.37, 70.95
CIE LCh	74, 74.704, 108.234
Yxy	46.5708, 0.4019, 0.5096
Android (android.graphics.Color)	4289773339 (0xFFB0BF1B)
YUV	167.8190, -69.4238, 7.1747
Hunter-Lab	68.2428, -23.3558, 40.7432

# Details

The Yxy color **46.5708, 0.4019, 0.5096** is a dark color, and the websafe version is hex **CCCC33**. A complement of this color would be **5.0370, 0.1642, 0.0769**, and the grayscale version is **39.3931, 0.3127, 0.3290**.

A 20% lighter version of the original color is **84.9390, 0.3922, 0.4799**, and **22.0989, 0.3958, 0.5239** is the 20% darker color. If you saturate the color by 10%, you get **46.3084, 0.4032, 0.5160**, and if you desaturate by 10%, it is **46.8972, 0.3982, 0.4989**.

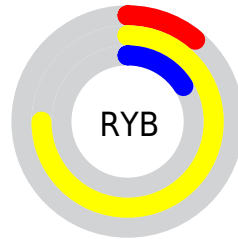
# Distribution



Red (69%)

Green (75%)

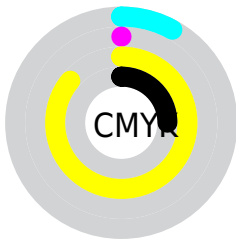
Blue (11%)



Red (11%)

Yellow (75%)

Blue (16%)

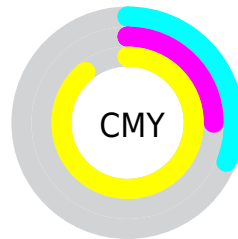


Cyan (8%)

Magenta (0%)

Yellow (86%)

Black (25%)



Cyan (31%)

Magenta (25%)

Yellow (89%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 46.5708, 0.4019, 0.5096 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 46.5708, 0.4019, 0.5096 by changing the saturation by 10% instead.




 46.5708, 0.4019,  
0.5096


 46.5708, 0.4019,  
0.5096


 373.0987, 0.3664,  
0.4225


 32.6965, 0.4064,  
0.5280


 85.0726, 0.3920,  
0.4800

 21.8940, 0.4095,  
0.5489


 110.4689, 0.3873,  
0.4682


 13.7791, 0.4111,  
0.5750


 140.4746, 0.3830,  
0.4580

 7.9672, 0.4023,  
0.5977

 175.4742, 0.3790,  
0.4490

 4.0739, 0.3802,  
0.6198

 215.8520, 0.3754,  
0.4412

 1.7150, 0.3428,  
0.6572

 261.9924, 0.3721,

 0.4333, 0.0000,

0.4342

1.0000

314.2799, 0.3691,  
0.4280

■ 0.0000, 0.0000,  
0.0000

■ 46.5708, 0.4019,  
0.5096

■ 46.5708, 0.4019,  
0.5096

■ 46.3084, 0.4032,  
0.5160

■ 46.8972, 0.3982,  
0.4989

■ 46.2084, 0.4033,  
0.5180

■ 47.2911, 0.3919,  
0.4839

■ 47.7625, 0.3832,  
0.4650

■ 48.3183, 0.3725,  
0.4431

■ 48.9645, 0.3604,  
0.4189

■ 49.7066, 0.3473,  
0.3937

■ 50.5496, 0.3338,  
0.3682

■ 51.4981, 0.3204,  
0.3432

■ 52.5566, 0.3074,  
0.3193

# Harmonies

## Analogous

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



46.5708, 0.4790, 0.4489



46.5708, 0.4019, 0.5096



46.5708, 0.3079, 0.5161

# Triad

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



46.5708, 0.4019, 0.5096



46.5708, 0.1442, 0.2291



46.5708, 0.3953, 0.2476

# Complementary

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



46.5708, 0.4019, 0.5096



5.0370, 0.1642, 0.0769

# 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.



46.5708, 0.2884, 0.2028



46.5708, 0.4019, 0.5096



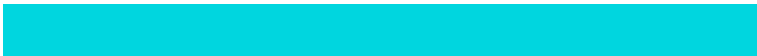
46.5708, 0.1586, 0.1882

# Square

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



46.5708, 0.4019, 0.5096



46.5708, 0.1631, 0.3147



46.5708, 0.2058, 0.1816



46.5708, 0.4857, 0.3086



# Rectangle

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



46.5708, 0.4019, 0.5096



46.5708, 0.2470, 0.4697



46.5708, 0.2058, 0.1816



46.5708, 0.3589, 0.2304

# Sweetspot

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



46.5729, 0.4019, 0.5096



88.9372, 0.3480, 0.3950



12.7180, 0.5993, 0.3392



19.4238, 0.3526, 0.4039



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.



46.5729, 0.4019, 0.5096



82.6911, 0.4030, 0.5182



39.7960, 0.3329, 0.5617



11.0749, 0.3250, 0.3518



30.3817, 0.4035, 0.5178



1.2032, 0.4075, 0.5146



# Inverse Universe

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



5.0370, 0.1642, 0.0769



6.9154, 0.1524, 0.0613



8.7306, 0.2336, 0.1139



9.2661, 0.2998, 0.3054



2.5694, 0.1535, 0.0619



0.1149, 0.1661, 0.0689



# Previews

## White Background



This preview shows how the Yxy color 46.5708, 0.4019, 0.5096 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 46.5708, 0.4019, 0.5096 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 46.5708, 0.4019, 0.5096**

## **Background**



This preview shows how black text looks on a background with the Yxy color 46.5708, 0.4019, 0.5096.



This preview shows how white text looks on a background with the Yxy color 46.5708, 0.4019, 0.5096.

# 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

46.5708, 0.4019, 0.5096

### Protanopia

46.3592, 0.4364, 0.4841

### Deuteranopia

46.1522, 0.4634, 0.4537



## Tritanopia

46.5937, 0.3118, 0.3113

# Trichromacy



## Original Color

46.5708, 0.4019, 0.5096

## Protanomaly

46.2374, 0.4242, 0.4932

## Deuteranomaly

45.9169, 0.4411, 0.4742

## Tritanomaly

45.8472, 0.3560, 0.3971

# Monochromacy



## Original Color

46.5708, 0.4019, 0.5096

## Achromatopsia

39.1572, 0.3127, 0.3290

## Achromatomaly

40.9929, 0.3575, 0.4124

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 46.5708, 0.4019, 0.5096 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(176, 191, 27)` looks like.

```
.text, #text, p{  
    color:rgb(176, 191, 27)  
}
```

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(176, 191, 27) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(176, 191, 27) }
```

## Border

The CSS property to change the border of an element to Yxy 46.5708, 0.4019, 0.5096 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(176, 191, 27) }
```

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

```
.border{ border-color:rgb(176, 191, 27) }
```

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

Here you see how a box with a 4 pixel `rgb(176, 191, 27)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(176, 191, 27); -webkit-box-  
shadow:4px 4px 4px 4px rgb(176, 191, 27);  
box-shadow:4px 4px 4px 4px rgb(176, 191,  
27) }
```



# Background

The CSS property to change the background color of an element to Yxy 46.5708, 0.4019, 0.5096 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(176, 191, 27) }
```

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

```
.background{ background-color: rgb(176,  
191, 27) }
```

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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