

# Converting Colors

$Y_{xy}(55.3913, 0.4706, 0.4731)$

Have a look what the booklet for  
Yxy(55.3913, 0.4706, 0.4731)  
contains.

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# **Color**

**Yxy(55.6283, 0.4666, 0.4677)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F4BD00
RGB	244, 189, 0
RGB Percent	96%, 74%, 0%
CMY	0.0433, 0.2587, 0.9996
CMYK	0.00, 0.23, 1.00, 0.04
HSL	46°, 100%, 48%
HSV	46°, 100%, 96%
XYZ	55.4975, 55.6283, 7.8144
YIQ	183.8990, 93.4490, -47.1190

# Conversions

## Conversions Part 2

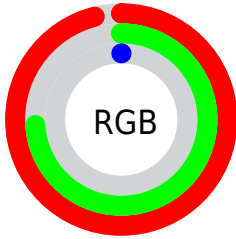
Format	Color
R <sub>Y</sub> B	71, 244, 0
Decimal	16039168
CIE Lab	79.40, 6.69, 81.37
CIE LCh	79, 81.647, 85.297
Yxy	55.6283, 0.4666, 0.4677
Android (android.graphics.Color)	4294229248 (0xFFF4BD00)
YUV	183.8990, -90.6622, 52.7086
Hunter-Lab	74.5844, 2.2973, 45.9971

# Details

The Yxy color **55.6283, 0.4666, 0.4677** is a dark color, and the websafe version is hex **FFCC00**. The color can be described as middle saturated orange. A complement of this color would be **9.2661, 0.1561, 0.0817**, and the grayscale version is **48.3524, 0.3127, 0.3290**.

A 20% lighter version of the original color is **87.1893, 0.4108, 0.4747**, and **27.5534, 0.4723, 0.4632** is the 20% darker color. If you saturate the color by 10%, you get **55.6218, 0.4666, 0.4677**, and if you desaturate by 10%, it is **58.1090, 0.4583, 0.4683**.

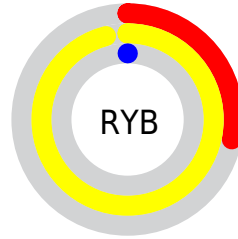
# Distribution



Red (96%)

Green (74%)

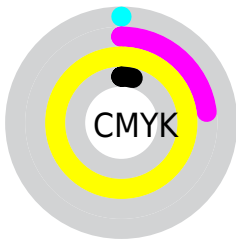
Blue (0%)



Red (28%)

Yellow (96%)

Blue (0%)

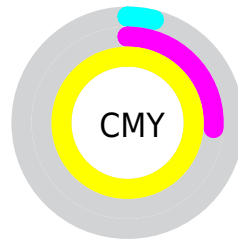


Cyan (0%)

Magenta (23%)

Yellow (100%)

Black (4%)



Cyan (4%)

Magenta (26%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 55.6283, 0.4666, 0.4677 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 55.6283, 0.4666, 0.4677 by changing the saturation by 10% instead.





 55.6283, 0.4666,  
0.4677

 55.6283, 0.4666,  
0.4677


408.2892, 0.4018,  
0.4123

 39.9050, 0.4776,  
0.4760


 98.4609, 0.4468,  
0.4516

 27.4645, 0.4887,  
0.4837

 126.3390, 0.4383,  
0.4444


 17.9224, 0.5012,  
0.4915


 159.0374, 0.4305,  
0.4377

 10.8943, 0.5080,  
0.4920

 196.9407, 0.4236,  
0.4316

 5.9958, 0.5125,  
0.4875

 240.4331, 0.4173,  
0.4261

 2.8425, 0.5195,  
0.4805

 289.8990, 0.4116,

 1.0501, 0.5318,

0.4211

345.7229, 0.4065,  
0.4165

0.4682

■ 0.0000, 1.0000,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 55.6283, 0.4666,  
0.4677

■ 55.6283, 0.4666,  
0.4677

■ 55.6218, 0.4666,  
0.4677

■ 58.1090, 0.4583,  
0.4683

■ 60.7625, 0.4473,  
0.4645

■ 63.6188, 0.4333,  
0.4560

■ 66.6946, 0.4171,  
0.4431

70.0040, 0.3994,  
0.4269

73.5595, 0.3810,  
0.4083

77.3724, 0.3626,  
0.3884

81.4530, 0.3449,  
0.3681

85.8110, 0.3282,  
0.3482

# Harmonies

## Analogous

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



55.6283, 0.5167, 0.3943



55.6283, 0.4666, 0.4677



55.6283, 0.3812, 0.5233

# Triad

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



55.6283, 0.4666, 0.4677



55.6283, 0.1516, 0.2887



55.6283, 0.3121, 0.2086

# Complementary

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



55.6283, 0.4666, 0.4677



9.2661, 0.1561, 0.0817

# 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.



55.6283, 0.2197, 0.1810



55.6283, 0.4666, 0.4677



55.6283, 0.1410, 0.2126

# Square

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



55.6283, 0.4666, 0.4677



55.6283, 0.2001, 0.4079



55.6283, 0.1633, 0.1805



55.6283, 0.4231, 0.2590



# Rectangle

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



55.6283, 0.4666, 0.4677



55.6283, 0.3165, 0.5257



55.6283, 0.1633, 0.1805



55.6283, 0.2777, 0.1966

# Sweetspot

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



55.6311, 0.4666, 0.4677



85.5064, 0.3628, 0.3886



19.5243, 0.6019, 0.3090



17.9132, 0.3706, 0.3971



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.



55.6311, 0.4666, 0.4677



61.4418, 0.4668, 0.4676



74.2565, 0.3721, 0.5427



18.6432, 0.3274, 0.3472



30.4681, 0.4657, 0.4684



2.8294, 0.4587, 0.4740



# Inverse Universe

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



9.2661, 0.1561, 0.0817



10.1912, 0.1559, 0.0814



7.6597, 0.1649, 0.0682



16.5322, 0.2979, 0.3101



5.2032, 0.1567, 0.0840



0.6055, 0.1629, 0.1064



# Previews

## White Background



This preview shows how the Yxy color 55.6283, 0.4666, 0.4677 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 55.6283, 0.4666, 0.4677 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 55.6283, 0.4666, 0.4677**

## **Background**



This preview shows how black text looks on a background with the Yxy color 55.6283, 0.4666, 0.4677.



This preview shows how white text looks on a background with the Yxy color 55.6283, 0.4666, 0.4677.

# 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

55.6283, 0.4666, 0.4677

### Protanopia

55.9443, 0.4388, 0.4872

### Deuteranopia

55.7069, 0.4714, 0.4615



## Tritanopia

55.6074, 0.3700, 0.3155

# Trichromacy



## Original Color

55.6283, 0.4666, 0.4677

## Protanomaly

55.8707, 0.4487, 0.4803

## Deuteranomaly

55.7581, 0.4692, 0.4640

## Tritanomaly

54.7278, 0.4261, 0.3930

# Monochromacy



## Original Color

55.6283, 0.4666, 0.4677

## Achromatopsia

47.9320, 0.3127, 0.3290

## Achromatomaly

49.5240, 0.3862, 0.4137

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 55.6283, 0.4666, 0.4677 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(244, 189, 0)` looks like.

```
.text, #text, p{  
    color:rgb(244, 189, 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(244, 189, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(244, 189, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 55.6283, 0.4666, 0.4677 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(244, 189, 0) }
```

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

```
.border{ border-color:rgb(244, 189, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(244, 189, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(244, 189, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(244, 189, 0);  
box-shadow:4px 4px 4px 4px rgb(244, 189,  
0) }
```



# Background

The CSS property to change the background color of an element to Yxy 55.6283, 0.4666, 0.4677 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(244, 189, 0) }
```

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

```
.background{ background-color: rgb(244,  
189, 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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