

# Converting Colors

$Y_{xy}(65.4795, 0.4504, 0.4620)$

Have a look what the booklet for  
Yxy(65.4795, 0.4504, 0.4620)  
contains.

<b>Yxy(65.6416, 0.4501, 0.4623)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

# **Color**

**Yxy(65.6416, 0.4501, 0.4623)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFCE33
RGB	255, 206, 51
RGB Percent	100%, 81%, 20%
CMY	0.0000, 0.1921, 0.7998
CMYK	0.00, 0.19, 0.80, 0.00
HSL	46°, 100%, 60%
HSV	46°, 80%, 100%
XYZ	63.9093, 65.6416, 12.4383
YIQ	202.9810, 78.9590, -37.8170

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
<b>RYB</b>	115, 255, 51
Decimal	16764467
CIELab	84.81, 3.50, 76.77
CIELCh	85, 76.853, 87.391
Yxy	65.6416, 0.4501, 0.4623
Android (android.graphics.Color)	4294954547 (0xFFFFCE33)
YUV	202.9810, -74.9266, 45.6207
Hunter-Lab	81.0195, -0.9808, 47.6114

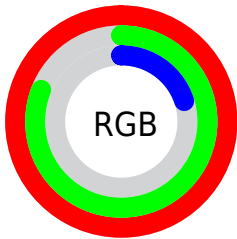
# Details

The Yxy color **65.6416, 0.4501, 0.4623** is a light color, and the websafe version is hex **FFCC33**.

The color can be described as light washed yellow. A complement of this color would be **17.0465, 0.1742, 0.1238**, and the grayscale version is **60.1559, 0.3127, 0.3290**.

A 20% lighter version of the original color is **93.9277, 0.3939, 0.4633**, and **33.9258, 0.4638, 0.4700** is the 20% darker color. If you saturate the color by 10%, you get **62.5857, 0.4617, 0.4657**, and if you desaturate by 10%, it is **68.9420, 0.4356, 0.4540**.

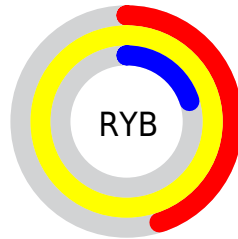
# Distribution



Red (100%)

Green (81%)

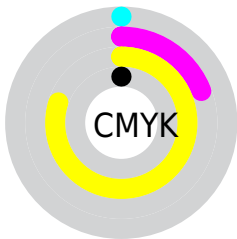
Blue (20%)



Red (45%)

Yellow (100%)

Blue (20%)

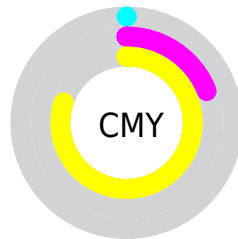


Cyan (0%)

Magenta (19%)

Yellow (80%)

Black (0%)



Cyan (0%)

Magenta (19%)

Yellow (80%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 65.6416, 0.4501, 0.4623 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 65.6416, 0.4501, 0.4623 by changing the saturation by 10% instead.





 65.6416, 0.4501,  
0.4623


 65.6416, 0.4501,  
0.4623

445.0940, 0.3924,  
0.4076

 47.9815, 0.4604,  
0.4716


 112.9718, 0.4322,  
0.4457


 33.8123, 0.4713,  
0.4812


 143.4107, 0.4245,  
0.4385

 22.7494, 0.4823,  
0.4904


 178.8779, 0.4177,  
0.4319

 14.4086, 0.4966,  
0.5022

 219.7580, 0.4115,  
0.4261

 8.4054, 0.4992,  
0.5008

 266.4353, 0.4060,  
0.4208

 4.3554, 0.5021,  
0.4979

319.2941, 0.4010,

 1.8743, 0.5068,

0.4160

378.7189, 0.3965,  
0.4116

0.4932

0.5329, 0.5262,  
0.4738

0.0000, 0.0000,  
0.0000

65.6416, 0.4501,  
0.4623

65.6416, 0.4501,  
0.4623

62.5857, 0.4617,  
0.4657

68.9420, 0.4356,  
0.4540

59.7347, 0.4704,  
0.4647

72.4962, 0.4188,  
0.4414

59.7296, 0.4705,  
0.4647

76.3235, 0.4006,  
0.4254

80.4379, 0.3818,  
0.4071

■ 84.8523, 0.3631,  
0.3875

■ 89.5784, 0.3452,  
0.3676

■ 94.6271, 0.3283,  
0.3479

99.9997, 0.3127,  
0.3290

# Harmonies

## Analogous

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



65.6416, 0.4960, 0.3971



65.6416, 0.4501, 0.4623



65.6416, 0.3720, 0.5048

# Triad

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



65.6416, 0.4501, 0.4623



65.6416, 0.1642, 0.2884



65.6416, 0.3197, 0.2218

# Complementary

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



65.6416, 0.4501, 0.4623



17.0465, 0.1742, 0.1238

# 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.



65.6416, 0.2337, 0.1945



65.6416, 0.4501, 0.4623



65.6416, 0.1558, 0.2213

# Square

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



65.6416, 0.4501, 0.4623



65.6416, 0.2076, 0.3914



65.6416, 0.1787, 0.1927



65.6416, 0.4180, 0.2699



# Rectangle

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



65.6416, 0.4501, 0.4623



65.6416, 0.3128, 0.5000



65.6416, 0.1787, 0.1927



65.6416, 0.2882, 0.2101

# Sweetspot

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



65.6448, 0.4501, 0.4623



87.6424, 0.3523, 0.3756



24.5914, 0.5312, 0.2914



18.4006, 0.3587, 0.3827



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.



65.6448, 0.4501, 0.4623



60.8506, 0.4672, 0.4654



84.5972, 0.3779, 0.5219



20.3077, 0.3275, 0.3470



31.4542, 0.4694, 0.4655



3.2314, 0.4625, 0.4710



# Inverse Universe

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



17.0465, 0.1742, 0.1238



11.5426, 0.1591, 0.0904



12.4183, 0.1861, 0.0935



18.0861, 0.2979, 0.3104



5.7220, 0.1574, 0.0865



0.7179, 0.1631, 0.1071



# Previews

## White Background



This preview shows how the Yxy color 65.6416, 0.4501, 0.4623 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 65.6416, 0.4501, 0.4623 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 65.6416, 0.4501, 0.4623**

## **Background**



This preview shows how black text looks on a background with the Yxy color 65.6416, 0.4501, 0.4623.



This preview shows how white text looks on a background with the Yxy color 65.6416, 0.4501, 0.4623.

# 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

65.6416, 0.4501, 0.4623

### Protanopia

65.5212, 0.4312, 0.4753

### Deuteranopia

65.7301, 0.4185, 0.4165



## Tritanopia

65.7466, 0.3509, 0.3178

# Trichromacy



## Original Color

65.6416, 0.4501, 0.4623

## Protanomaly

65.5742, 0.4379, 0.4709

## Deuteranomaly

65.7130, 0.4326, 0.4370

## Tritanomaly

64.8029, 0.3957, 0.3800

# Monochromacy



## Original Color

65.6416, 0.4501, 0.4623

## Achromatopsia

59.7202, 0.3127, 0.3290

## Achromatomaly

60.8534, 0.3689, 0.3934

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 65.6416, 0.4501, 0.4623 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(255, 206, 51)` looks like.

```
.text, #text, p{  
    color:rgb(255, 206, 51)  
}
```

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(255, 206, 51) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 206, 51) }
```

## Border

The CSS property to change the border of an element to Yxy 65.6416, 0.4501, 0.4623 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(255, 206, 51) }
```

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

```
.border{ border-color:rgb(255, 206, 51) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 206, 51)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 206, 51); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 206, 51);  
box-shadow:4px 4px 4px 4px rgb(255, 206,  
51) }
```



# Background

The CSS property to change the background color of an element to Yxy 65.6416, 0.4501, 0.4623 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 206, 51) }
```

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

```
.background{ background-color: rgb(255,  
206, 51) }
```

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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