

# Converting Colors

$Y_{xy}(69.0498, 0.4231, 0.4357)$

Have a look what the booklet for  
Yxy(69.0498, 0.4231, 0.4357)  
contains.

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# Color

**Yxy(68.8078, 0.4235, 0.4353)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFD366
RGB	255, 211, 102
RGB Percent	100%, 83%, 40%
CMY	0.0000, 0.1726, 0.6000
CMYK	0.00, 0.17, 0.60, 0.00
HSL	43°, 100%, 70%
HSV	43°, 60%, 100%
XYZ	66.9426, 68.8078, 22.3195
YIQ	211.7300, 61.2130, -24.5710

# Conversions

## Conversions Part 2

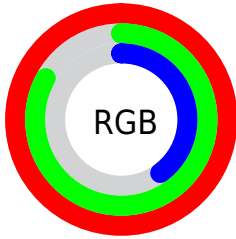
<b>Format</b>	<b>Color</b>
<b>RYB</b>	164, 255, 102
Decimal	16765798
CIELab	86.41, 3.44, 58.64
CIELCh	86, 58.743, 86.639
Yxy	68.8078, 0.4235, 0.4353
Android (android.graphics.Color)	4294955878 (0xFFFFD366)
YUV	211.7300, -54.0969, 37.9478
Hunter-Lab	82.9505, -1.1105, 42.1122

# Details

The Yxy color **68.8078, 0.4235, 0.4353** is a light color, and the websafe version is hex **FFCC66**. A complement of this color would be **30.6006, 0.2072, 0.1876**, and the grayscale version is **65.9803, 0.3127, 0.3290**.

A 20% lighter version of the original color is **95.1803, 0.3712, 0.4256**, and **35.9294, 0.4448, 0.4553** is the 20% darker color. If you saturate the color by 10%, you get **64.8121, 0.4421, 0.4471**, and if you desaturate by 10%, it is **73.1173, 0.4037, 0.4201**.

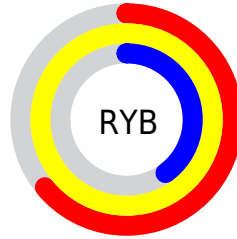
# Distribution



Red (100%)

Green (83%)

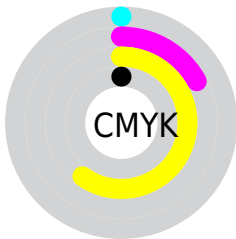
Blue (40%)



Red (64%)

Yellow (100%)

Blue (40%)

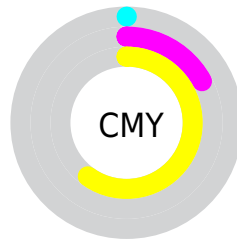


Cyan (0%)

Magenta (17%)

Yellow (60%)

Black (0%)



Cyan (0%)

Magenta (17%)


Yellow (60%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 68.8078, 0.4235, 0.4353 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 68.8078, 0.4235, 0.4353 by changing the saturation by 10% instead.




 68.8078, 0.4235,  
0.4353

 68.8078, 0.4235,  
0.4353


456.3528, 0.3745,  
0.3891


 50.5552, 0.4335,  
0.4444


 117.5070, 0.4074,  
0.4203


 35.8547, 0.4449,  
0.4548


 148.7224, 0.4008,  
0.4141

 24.3220, 0.4580,  
0.4663


 185.0275, 0.3950,  
0.4087

 15.5727, 0.4725,  
0.4785

 226.8068, 0.3900,  
0.4039

 9.2223, 0.4909,  
0.4936

274.4445, 0.3854,  
0.3996

 4.8865, 0.5013,  
0.4987

328.3252, 0.3814,

 2.1808, 0.5056,

0.3957

0.4944

388.8331, 0.3778,  
0.3923

0.7095, 0.5167,  
0.4833

0.0000, 0.0000,  
0.0000

68.8078, 0.4235,  
0.4353

68.8078, 0.4235,  
0.4353

64.8121, 0.4421,  
0.4471

73.1173, 0.4037,  
0.4201

61.1252, 0.4585,  
0.4546

77.7677, 0.3837,  
0.4027

57.7233, 0.4721,  
0.4571

82.7687, 0.3642,  
0.3842

54.5766, 0.4827,  
0.4550

88.1328, 0.3457,  
0.3653

■ 93.8719, 0.3285,  
0.3468

99.9971, 0.3127,  
0.3290

100.0000, 0.3127,  
0.3290

# Harmonies

## Analogous

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



68.8078, 0.4545, 0.3869



68.8078, 0.4235, 0.4353



68.8078, 0.3645, 0.4613

# Triad

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



68.8078, 0.4235, 0.4353



68.8078, 0.1968, 0.3028



68.8078, 0.3175, 0.2435

# Complementary

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



68.8078, 0.4235, 0.4353



30.6006, 0.2072, 0.1876

# 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.



68.8078, 0.2508, 0.2218



68.8078, 0.4235, 0.4353



68.8078, 0.1878, 0.2482

# Square

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



68.8078, 0.4235, 0.4353



68.8078, 0.2342, 0.3779



68.8078, 0.2062, 0.2221



68.8078, 0.3908, 0.2828



# Rectangle

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



68.8078, 0.4235, 0.4353



68.8078, 0.3183, 0.4544



68.8078, 0.2062, 0.2221



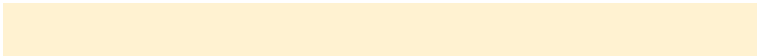
68.8078, 0.2935, 0.2341

# Sweetspot

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



68.8038, 0.4235, 0.4353



89.2529, 0.3421, 0.3615



32.8951, 0.4431, 0.2840



18.7569, 0.3473, 0.3670



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.



68.8038, 0.4235, 0.4353



64.0527, 0.4455, 0.4490



88.3900, 0.3763, 0.4819



20.1560, 0.3276, 0.3459



28.7861, 0.4814, 0.4560



2.9902, 0.4726, 0.4630



# Inverse Universe

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



30.6006, 0.2072, 0.1876



23.0415, 0.1879, 0.1551



21.6737, 0.2144, 0.1434



18.2286, 0.2979, 0.3116



6.5055, 0.1601, 0.0965



0.8109, 0.1662, 0.1182



# Previews

## White Background



This preview shows how the Yxy color 68.8078, 0.4235, 0.4353 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

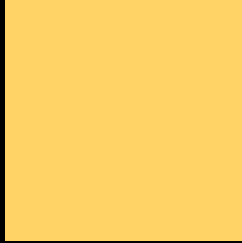
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 68.8078, 0.4235, 0.4353 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 68.8078, 0.4235, 0.4353**

## **Background**



This preview shows how black text looks on a background with the Yxy color 68.8078, 0.4235, 0.4353.



This preview shows how white text looks on a background with the Yxy color 68.8078, 0.4235, 0.4353.

# 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

68.8078, 0.4235, 0.4353

### Protanopia

69.1504, 0.4067, 0.4447

### Deuteranopia

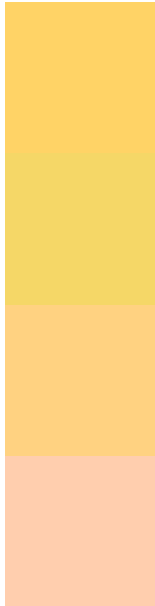
68.8745, 0.3970, 0.3959



## Tritanopia

68.8782, 0.3444, 0.3169

# Trichromacy



**Original Color**

68.8078, 0.4235, 0.4353

**Protanomaly**

68.9926, 0.4124, 0.4418

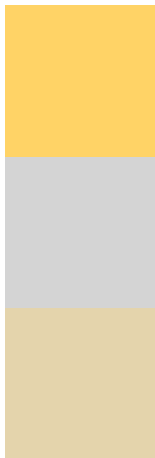
**Deuteranomaly**

68.9382, 0.4071, 0.4112

**Tritanomaly**

68.4586, 0.3755, 0.3624

# Monochromacy



**Original Color**

68.8078, 0.4235, 0.4353

**Achromatopsia**

65.8375, 0.3127, 0.3290

**Achromatomaly**

66.5595, 0.3536, 0.3737

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 68.8078, 0.4235, 0.4353 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, 211, 102)` looks like.

```
.text, #text, p{  
    color:rgb(255, 211, 102)  
}
```

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, 211, 102) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 211, 102) }
```

## Border

The CSS property to change the border of an element to Yxy 68.8078, 0.4235, 0.4353 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, 211, 102) }
```

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

```
.border{ border-color:rgb(255, 211, 102) }
```

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

Here you see how a box with a 4 pixel rgb(255, 211, 102) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 211, 102); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 211, 102);  
box-shadow:4px 4px 4px 4px rgb(255, 211,  
102) }
```



# Background

The CSS property to change the background color of an element to Yxy 68.8078, 0.4235, 0.4353 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 211, 102) }
```

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

```
.background{ background-color: rgb(255,  
211, 102) }
```

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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