

# Converting Colors

$Y_{xy}(58.2468, 0.4389, 0.4147)$

Have a look what the booklet for  
Yxy(58.2468, 0.4389, 0.4147)  
contains.

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# Color

**Yxy(58.1857, 0.4390, 0.4145)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFBC66
RGB	255, 188, 102
RGB Percent	100%, 74%, 40%
CMY	0.0000, 0.2627, 0.5998
CMYK	0.00, 0.26, 0.60, 0.00
HSL	34°, 100%, 70%
HSV	34°, 60%, 100%
XYZ	61.6249, 58.1857, 20.5650
YIQ	198.2290, 67.5380, -12.5420

# Conversions

## Conversions Part 2

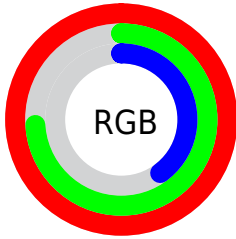
Format	Color
R <sub>Y</sub> B	221, 255, 102
Decimal	16759910
CIE Lab	80.84, 15.33, 52.22
CIE LCh	81, 54.423, 73.636
Yxy	58.1857, 0.4390, 0.4145
Android (android.graphics.Color)	4294949990 (0xFFFFBC66)
YUV	198.2290, -47.4409, 49.7882
Hunter-Lab	76.2796, 10.7178, 37.4111

# Details

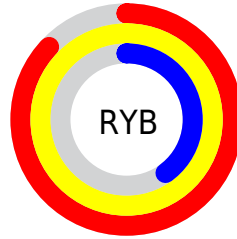
The Yxy color **58.1857, 0.4390, 0.4145** is a light color, and the websafe version is hex **FFCC66**. A complement of this color would be **38.4404, 0.2141, 0.2182**, and the grayscale version is **56.8852, 0.3127, 0.3290**.

A 20% lighter version of the original color is **88.3279, 0.3756, 0.4172**, and **29.1691, 0.4670, 0.4288** is the 20% darker color. If you saturate the color by 10%, you get **53.1675, 0.4640, 0.4235**, and if you desaturate by 10%, it is **63.7326, 0.4139, 0.4023**.

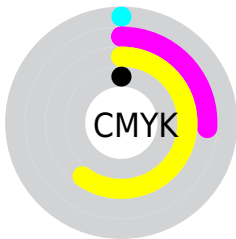
# Distribution



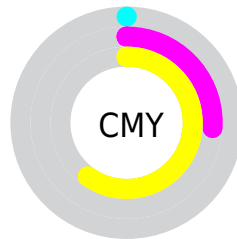
- Red (100%)
- Green (74%)
- Blue (40%)



- Red (87%)
- Yellow (100%)
- Blue (40%)



- Cyan (0%)
- Magenta (26%)
- Yellow (60%)
- Black (0%)




- Cyan (0%)
- Magenta (26%)
- Yellow (60%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 58.1857, 0.4390, 0.4145 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 58.1857, 0.4390, 0.4145 by changing the saturation by 10% instead.





 58.1857, 0.4390,  
0.4145


 58.1857, 0.4390,  
0.4145


417.8775, 0.3801,  
0.3779


 41.9580, 0.4518,  
0.4214


 102.1932, 0.4189,  
0.4028

 29.0684, 0.4671,  
0.4290


 130.7418, 0.4109,  
0.3979

 19.1326, 0.4852,  
0.4370


 164.1661, 0.4041,  
0.3936

 11.7661, 0.5065,  
0.4442

 202.8506, 0.3980,  
0.3898

 6.5846, 0.5396,  
0.4558

247.1795, 0.3927,  
0.3863

 3.2037, 0.5562,  
0.4438

297.5374, 0.3880,

 1.2390, 0.5799,

0.3832

0.4201

354.3086, 0.3838,  
0.3804

0.0932, 0.8324,  
0.1676

0.0000, 0.0000,  
0.0000

58.1857, 0.4390,  
0.4145

58.1857, 0.4390,  
0.4145

53.1675, 0.4640,  
0.4235

63.7326, 0.4139,  
0.4023

48.6493, 0.4875,  
0.4280

69.8235, 0.3898,  
0.3882

44.6067, 0.5081,  
0.4271

76.4797, 0.3674,  
0.3731

41.0021, 0.5251,  
0.4212

83.7194, 0.3471,  
0.3579

40.9957, 0.5251,  
0.4212

91.5595, 0.3288,  
0.3430

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.



58.1857, 0.4525, 0.3633



58.1857, 0.4390, 0.4145



58.1857, 0.3911, 0.4519

# Triad

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



58.1857, 0.4390, 0.4145



58.1857, 0.2115, 0.3342



58.1857, 0.2871, 0.2333

# Complementary

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



58.1857, 0.4390, 0.4145



38.4404, 0.2141, 0.2182

# 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.



58.1857, 0.2299, 0.2209



58.1857, 0.4390, 0.4145



58.1857, 0.1904, 0.2697

# Square

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



58.1857, 0.4390, 0.4145



58.1857, 0.2596, 0.4078



58.1857, 0.1970, 0.2319



58.1857, 0.3590, 0.2652



# Rectangle

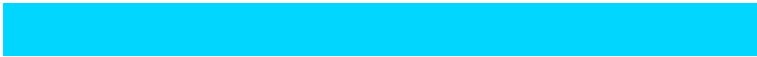
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



58.1857, 0.4390, 0.4145



58.1857, 0.3482, 0.4587



58.1857, 0.1970, 0.2319



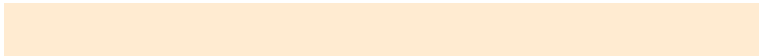
58.1857, 0.2657, 0.2268

# Sweetspot

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



58.1875, 0.4390, 0.4145



85.2246, 0.3433, 0.3549



33.7076, 0.4128, 0.2609



17.7702, 0.3489, 0.3593



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.



58.1875, 0.4390, 0.4145



52.2158, 0.4689, 0.4248



92.3185, 0.3924, 0.4726



19.6808, 0.3280, 0.3424



21.7238, 0.5229, 0.4230

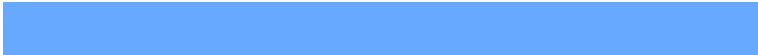


2.3328, 0.5078, 0.4350



# Inverse Universe

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



38.4404, 0.2141, 0.2182



30.9737, 0.1971, 0.1915



20.0275, 0.1998, 0.1370



18.6869, 0.2979, 0.3153



10.0781, 0.1715, 0.1373



1.1943, 0.1776, 0.1592



# Previews

## White Background



This preview shows how the Yxy color 58.1857, 0.4390, 0.4145 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

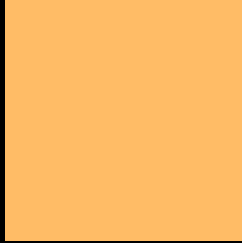
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 58.1857, 0.4390, 0.4145 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 58.1857, 0.4390, 0.4145**

## **Background**



This preview shows how black text looks on a background with the Yxy color 58.1857, 0.4390, 0.4145.



This preview shows how white text looks on a background with the Yxy color 58.1857, 0.4390, 0.4145.

# 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

58.1857, 0.4390, 0.4145

### Protanopia

58.3435, 0.4000, 0.4353

### Deuteranopia

57.9753, 0.4310, 0.4211



## Tritanopia

58.1580, 0.3669, 0.3166

# Trichromacy



## Original Color

58.1857, 0.4390, 0.4145

## Protanomaly

57.9922, 0.4140, 0.4270

## Deuteranomaly

58.0905, 0.4342, 0.4190

## Tritanomaly

58.0790, 0.3950, 0.3544

# Monochromacy



## Original Color

58.1857, 0.4390, 0.4145

## Achromatopsia

56.4712, 0.3127, 0.3290

## Achromatomaly

56.2880, 0.3579, 0.3655

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 58.1857, 0.4390, 0.4145 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, 188, 102)` looks like.

```
.text, #text, p{  
    color:rgb(255, 188, 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, 188, 102) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 188, 102) }
```

## Border

The CSS property to change the border of an element to Yxy 58.1857, 0.4390, 0.4145 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, 188, 102) }
```

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

```
.border{ border-color:rgb(255, 188, 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, 188, 102)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 188, 102); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 188, 102);  
box-shadow:4px 4px 4px 4px rgb(255, 188,  
102) }
```



# Background

The CSS property to change the background color of an element to Yxy 58.1857, 0.4390, 0.4145 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 188, 102) }
```

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

```
.background{ background-color: rgb(255,  
188, 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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