

# Converting Colors

$Y_{xy}(73.9726, 0.5122, 0.3970)$

Have a look what the booklet for  
Yxy(73.9726, 0.5122, 0.3970)  
contains.

<b>Yxy(55.2951, 0.4576, 0.4259)</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(55.2951, 0.4576, 0.4259)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFB650
RGB	255, 182, 80
RGB Percent	100%, 71%, 31%
CMY	0.0001, 0.2862, 0.6864
CMYK	0.00, 0.29, 0.69, 0.00
HSL	35°, 100%, 66%
HSV	35°, 69%, 100%
XYZ	59.4107, 55.2951, 15.1253
YIQ	192.1990, 76.2500, -16.2460

# Conversions

## Conversions Part 2

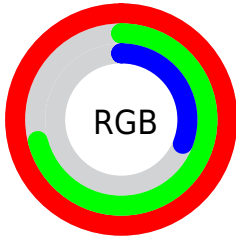
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">205, 255, 80</a>
Decimal	<a href="#">16758352</a>
<a href="#">CIELab</a>	<a href="#">79.21, 17.12, 60.58</a>
<a href="#">CIElCh</a>	<a href="#">79, 62.948, 74.221</a>
<a href="#">Yxy</a>	<a href="#">55.2951, 0.4576, 0.4259</a>
<a href="#">Android (android.graphics.Color)</a>	<a href="#">4294948432 (0xFFFFB650)</a>
<a href="#">YUV</a>	<a href="#">192.1990, -55.3141, 55.0765</a>
<a href="#">Hunter-Lab</a>	<a href="#">74.3607, 12.4821, 39.9926</a>

# Details

The Yxy color **55.2951, 0.4576, 0.4259** is a light color, and the websafe version is hex **FFCC66**. The color can be described as light muted orange. A complement of this color would be **31.6865, 0.2003, 0.1939**, and the grayscale version is **53.1307, 0.3127, 0.3290**.

A 20% lighter version of the original color is **84.1025, 0.3909, 0.4323**, and **27.2317, 0.4883, 0.4395** is the 20% darker color. If you saturate the color by 10%, you get **50.7989, 0.4804, 0.4315**, and if you desaturate by 10%, it is **60.2704, 0.4334, 0.4160**.

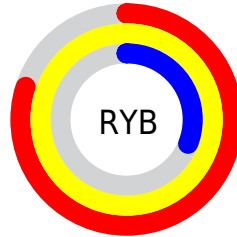
# Distribution



Red (100%)

Green (71%)

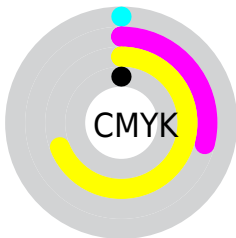
Blue (31%)



Red (80%)

Yellow (100%)

Blue (31%)

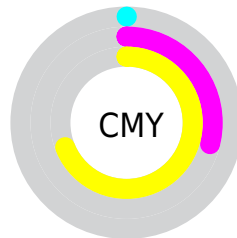


Cyan (0%)

Magenta (29%)

Yellow (69%)

Black (0%)



Cyan (0%)

Magenta (29%)


Yellow (69%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 55.2951, 0.4576, 0.4259 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 55.2951, 0.4576, 0.4259 by changing the saturation by 10% instead.





 55.2951, 0.4576,  
0.4259

 55.2951, 0.4576,  
0.4259


407.0296, 0.3908,  
0.3858

 39.6380, 0.4716,  
0.4328


 97.9732, 0.4352,  
0.4136

 27.2564, 0.4878,  
0.4398


 125.7630, 0.4262,  
0.4083

 17.7659, 0.5063,  
0.4461


 158.3659, 0.4183,  
0.4035

 10.7821, 0.5282,  
0.4512

 196.1662, 0.4114,  
0.3992

 5.9205, 0.5503,  
0.4497

 239.5483, 0.4053,  
0.3953

 2.7968, 0.5670,  
0.4330

288.8966, 0.3999,

 1.0266, 0.5958,

0.3918

0.4042

344.5956, 0.3951,  
0.3887

0.0000, 1.0000,  
0.0000

0.0000, 0.0000,  
0.0000

55.2951, 0.4576,  
0.4259

55.2951, 0.4576,  
0.4259

50.7989, 0.4804,  
0.4315

60.2704, 0.4334,  
0.4160

46.7490, 0.5004,  
0.4319

65.7379, 0.4092,  
0.4030

43.1161, 0.5168,  
0.4270

71.7201, 0.3859,  
0.3882

42.6480, 0.5189,  
0.4262

78.2350, 0.3641,  
0.3725

85.2994, 0.3443,  
0.3568

92.9294, 0.3265,  
0.3416

99.9969, 0.3127,  
0.3290

# Harmonies

## Analogous

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



55.2951, 0.4765, 0.3666



55.2951, 0.4576, 0.4259



55.2951, 0.4001, 0.4724

# Triad

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



55.2951, 0.4576, 0.4259



55.2951, 0.1946, 0.3319



55.2951, 0.2837, 0.2200

# Complementary

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



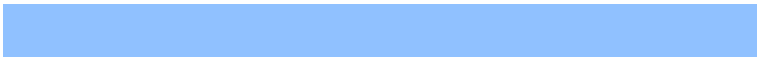
55.2951, 0.4576, 0.4259



31.6865, 0.2003, 0.1939

# 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.



55.2951, 0.2180, 0.2052



55.2951, 0.4576, 0.4259



55.2951, 0.1724, 0.2573

# Square

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



55.2951, 0.4576, 0.4259



55.2951, 0.2483, 0.4217



55.2951, 0.1806, 0.2160



55.2951, 0.3681, 0.2562



# Rectangle

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



55.2951, 0.4576, 0.4259



55.2951, 0.3500, 0.4826



55.2951, 0.1806, 0.2160



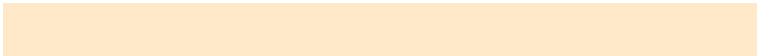
55.2951, 0.2589, 0.2125

# Sweetspot

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



55.2979, 0.4576, 0.4259



83.5911, 0.3488, 0.3605



29.3842, 0.4398, 0.2580



17.4702, 0.3542, 0.3648



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.



55.2979, 0.4576, 0.4259



49.3948, 0.4875, 0.4323



91.1993, 0.3977, 0.4884



19.7469, 0.3280, 0.3428



22.5895, 0.5168, 0.4278



2.4154, 0.5026, 0.4391



# Inverse Universe

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



31.6865, 0.2003, 0.1939



24.5959, 0.1837, 0.1639



15.2091, 0.1850, 0.1113



18.6221, 0.2979, 0.3148



9.4718, 0.1697, 0.1309



1.1321, 0.1759, 0.1531



# Previews

## White Background



This preview shows how the Yxy color 55.2951, 0.4576, 0.4259 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 55.2951, 0.4576, 0.4259 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 55.2951, 0.4576, 0.4259**

## **Background**



This preview shows how black text looks on a background with the Yxy color 55.2951, 0.4576, 0.4259.



This preview shows how white text looks on a background with the Yxy color 55.2951, 0.4576, 0.4259.

# 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

55.2951, 0.4576, 0.4259

### Protanopia

55.6327, 0.4133, 0.4528

### Deuteranopia

55.3383, 0.4450, 0.4360



## Tritanopia

55.0773, 0.3750, 0.3166

# Trichromacy



## Original Color

55.2951, 0.4576, 0.4259

## Protanomaly

55.4796, 0.4287, 0.4430

## Deuteranomaly

55.2189, 0.4500, 0.4324

## Tritanomaly

54.8109, 0.4096, 0.3607

# Monochromacy



## Original Color

55.2951, 0.4576, 0.4259

## Achromatopsia

52.7115, 0.3127, 0.3290

## Achromatomaly

52.6479, 0.3660, 0.3735

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 55.2951, 0.4576, 0.4259 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, 182, 80)` looks like.

```
.text, #text, p{  
    color:rgb(255, 182, 80)  
}
```

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, 182, 80) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 182, 80) }
```

## Border

The CSS property to change the border of an element to Yxy 55.2951, 0.4576, 0.4259 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, 182, 80) }
```

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

```
.border{ border-color:rgb(255, 182, 80) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 182, 80)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 182, 80); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 182, 80);  
box-shadow:4px 4px 4px 4px rgb(255, 182,  
80) }
```



# Background

The CSS property to change the background color of an element to Yxy 55.2951, 0.4576, 0.4259 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 182, 80) }
```

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

```
.background{ background-color: rgb(255,  
182, 80) }
```

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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