

# Converting Colors

$Y_{xy}(55.2669, 0.4610, 0.4401)$

Have a look what the booklet for  
Yxy(55.2669, 0.4610, 0.4401)  
contains.

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# **Color**

**Yxy(55.1604, 0.4611, 0.4397)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FBB840
RGB	251, 184, 64
RGB Percent	98%, 72%, 25%
CMY	0.0157, 0.2784, 0.7491
CMYK	0.00, 0.27, 0.75, 0.02
HSL	39°, 96%, 62%
HSV	39°, 75%, 98%
XYZ	57.8450, 55.1604, 12.4446
YIQ	190.3530, 78.4520, -23.1160

# Conversions

## Conversions Part 2

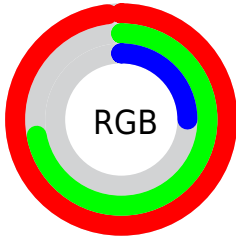
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">168, 251, 64</a>
Decimal	<a href="#">16496704</a>
CIELab	<a href="#">79.13, 13.66, 66.96</a>
CIELCh	<a href="#">79, 68.343, 78.469</a>
Yxy	<a href="#">55.1604, 0.4611, 0.4397</a>
Android (android.graphics.Color)	<a href="#">4294686784</a> (0xFFFBB840)
YUV	<a href="#">190.3530, -62.2920, 53.1874</a>
Hunter-Lab	<a href="#">74.2700, 9.0517, 42.0544</a>

# Details

The Yxy color **55.1604, 0.4611, 0.4397** is a light color, and the websafe version is hex **FFCC66**. The color can be described as light washed orange. A complement of this color would be **24.2716, 0.1888, 0.1658**, and the grayscale version is **52.0393, 0.3127, 0.3290**.

A 20% lighter version of the original color is **84.9121, 0.3975, 0.4457**, and **27.1797, 0.4873, 0.4513** is the 20% darker color. If you saturate the color by 10%, you get **51.3221, 0.4795, 0.4436**, and if you desaturate by 10%, it is **59.3699, 0.4403, 0.4310**.

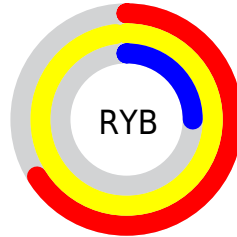
# Distribution



Red (98%)

Green (72%)

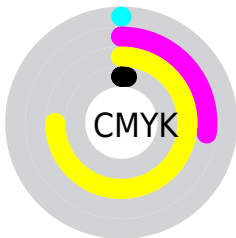
Blue (25%)



Red (66%)

Yellow (98%)

Blue (25%)

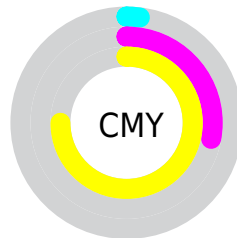


Cyan (0%)

Magenta (27%)

Yellow (75%)

Black (2%)



Cyan (2%)

Magenta (28%)


Yellow (75%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 55.1604, 0.4611, 0.4397 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 55.1604, 0.4611, 0.4397 by changing the saturation by 10% instead.




 55.1604, 0.4611,  
0.4397

 55.1604, 0.4611,  
0.4397

406.5197, 0.3942,  
0.3941

 39.5302, 0.4744,  
0.4473


 97.7759, 0.4392,  
0.4259

 27.1724, 0.4893,  
0.4548


 125.5300, 0.4302,  
0.4199


 17.7027, 0.5056,  
0.4613


 158.0941, 0.4223,  
0.4144

 10.7368, 0.5284,  
0.4701

 195.8527, 0.4153,  
0.4095

 5.8901, 0.5381,  
0.4619

 239.1902, 0.4091,  
0.4051

 2.7784, 0.5519,  
0.4481

288.4909, 0.4036,

 1.0172, 0.5758,

0.4011

0.4242

344.1393, 0.3986,  
0.3974

■ 0.0000, 1.0000,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 55.1604, 0.4611,  
0.4397

■ 55.1604, 0.4611,  
0.4397

■ 51.3221, 0.4795,  
0.4436

■ 59.3699, 0.4403,  
0.4310


■ 47.8237, 0.4947,  
0.4422

■ 63.9618, 0.4183,  
0.4185

■ 46.0322, 0.5019,  
0.4397

■ 68.9563, 0.3962,  
0.4033

■ 74.3690, 0.3749,  
0.3867

 80.2145, 0.3548,  
0.3695

 86.5063, 0.3364,  
0.3525

 93.2572, 0.3197,  
0.3361

 99.2464, 0.3102,  
0.3290

# Harmonies

## Analogous

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



55.1604, 0.4900, 0.3765



55.1604, 0.4611, 0.4397



55.1604, 0.3943, 0.4881

# Triad

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



55.1604, 0.4611, 0.4397



55.1604, 0.1803, 0.3178



55.1604, 0.2930, 0.2166

# Complementary

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



55.1604, 0.4611, 0.4397



24.2716, 0.1888, 0.1658

# 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.



55.1604, 0.2189, 0.1974



55.1604, 0.4611, 0.4397



55.1604, 0.1621, 0.2423

# Square

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



55.1604, 0.4611, 0.4397



55.1604, 0.2324, 0.4174



55.1604, 0.1752, 0.2041



55.1604, 0.3856, 0.2577



# Rectangle

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



55.1604, 0.4611, 0.4397



55.1604, 0.3392, 0.4957



55.1604, 0.1752, 0.2041



55.1604, 0.2652, 0.2076

# Sweetspot

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



55.1631, 0.4611, 0.4397



84.7439, 0.3501, 0.3653



25.8514, 0.4759, 0.2685



17.7703, 0.3553, 0.3699



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.



55.1631, 0.4611, 0.4397



51.5104, 0.4869, 0.4436



85.5315, 0.3925, 0.5026



19.0838, 0.3278, 0.3442



24.4853, 0.5001, 0.4411



2.4682, 0.4879, 0.4508



# Inverse Universe

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



24.2716, 0.1888, 0.1658



18.4741, 0.1724, 0.1325



12.7476, 0.1816, 0.0991



17.6602, 0.2979, 0.3133



7.7443, 0.1651, 0.1142



0.9097, 0.1716, 0.1378



# Previews

## White Background



This preview shows how the Yxy color 55.1604, 0.4611, 0.4397 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 55.1604, 0.4611, 0.4397 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 55.1604, 0.4611, 0.4397**

## **Background**



This preview shows how black text looks on a background with the Yxy color 55.1604, 0.4611, 0.4397.



This preview shows how white text looks on a background with the Yxy color 55.1604, 0.4611, 0.4397.

# 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

55.1604, 0.4611, 0.4397

### Protanopia

55.5534, 0.4228, 0.4652

### Deuteranopia

55.0695, 0.4558, 0.4445



## Tritanopia

55.0773, 0.3750, 0.3166

# Trichromacy



## Original Color

55.1604, 0.4611, 0.4397

## Protanomaly

55.0815, 0.4367, 0.4557

## Deuteranomaly

55.0133, 0.4583, 0.4426

## Tritanomaly

54.8646, 0.4126, 0.3671

# Monochromacy



## Original Color

55.1604, 0.4611, 0.4397

## Achromatopsia

51.4918, 0.3127, 0.3290

## Achromatomaly

51.9771, 0.3691, 0.3824

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 55.1604, 0.4611, 0.4397 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(251, 184, 64)` looks like.

```
.text, #text, p{  
    color:rgb(251, 184, 64)  
}
```

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(251, 184, 64) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(251, 184, 64) }
```

## Border

The CSS property to change the border of an element to Yxy 55.1604, 0.4611, 0.4397 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(251, 184, 64) }
```

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

```
.border{ border-color:rgb(251, 184, 64) }
```

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

Here you see how a box with a 4 pixel rgb(251, 184, 64) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(251, 184, 64); -webkit-box-  
shadow:4px 4px 4px 4px rgb(251, 184, 64);  
box-shadow:4px 4px 4px 4px rgb(251, 184,  
64) }
```



# Background

The CSS property to change the background color of an element to Yxy 55.1604, 0.4611, 0.4397 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(251, 184, 64) }
```

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

```
.background{ background-color: rgb(251,  
184, 64) }
```

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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