

# Converting Colors

$Y_{xy}(54.3523, 0.4832, 0.4545)$

Have a look what the booklet for  
Yxy(54.3523, 0.4832, 0.4545)  
contains.

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# **Color**

**Yxy(54.3077, 0.4833, 0.4544)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFB500
RGB	255, 181, 0
RGB Percent	100%, 71%, 0%
CMY	0.0001, 0.2902, 0.9989
CMYK	0.00, 0.29, 1.00, 0.00
HSL	43°, 100%, 50%
HSV	43°, 100%, 100%
XYZ	57.7617, 54.3077, 7.4458
YIQ	182.4920, 102.2050, -40.6030

# Conversions

## Conversions Part 2

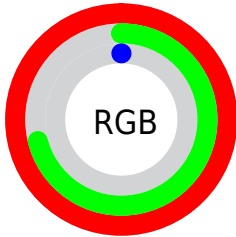
Format	Color
<a href="#">RYB</a>	<a href="#">104, 255, 0</a>
Decimal	<a href="#">16758016</a>
CIELab	<a href="#">78.64, 15.58, 81.39</a>
CIELCh	<a href="#">79, 82.866, 79.162</a>
Yxy	<a href="#">54.3077, 0.4833, 0.4544</a>
Android (android.graphics.Color)	<a href="#">4294948096</a> (0xFFFFB500)
YUV	<a href="#">182.4920, -89.9686, 63.5895</a>
Hunter-Lab	<a href="#">73.6938, 10.9455, 45.5951</a>

# Details

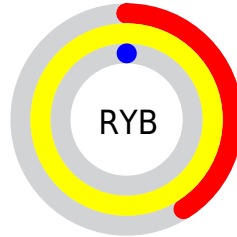
The Yxy color **54.3077, 0.4833, 0.4544** is a dark color, and the websafe version is hex **FFCC33**. The color can be described as middle saturated orange. A complement of this color would be **12.1539, 0.1596, 0.0946**, and the grayscale version is **47.5405, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.4376, 0.4162, 0.4697**, and **26.6448, 0.4935, 0.4464** is the 20% darker color. If you saturate the color by 10%, you get **54.2757, 0.4834, 0.4544**, and if you desaturate by 10%, it is **57.4761, 0.4726, 0.4566**.

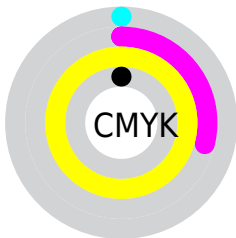
# Distribution



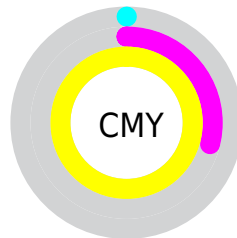
- Red (100%)
- Green (71%)
- Blue (0%)



- Red (41%)
- Yellow (100%)
- Blue (0%)



- Cyan (0%)
- Magenta (29%)
- Yellow (100%)
- Black (0%)




- Cyan (0%)
- Magenta (29%)
- Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 54.3077, 0.4833, 0.4544 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 54.3077, 0.4833, 0.4544 by changing the saturation by 10% instead.





 54.3077, 0.4833,  
0.4544


 54.3077, 0.4833,  
0.4544


403.2823, 0.4101,  
0.4071


 38.8477, 0.4962,  
0.4605


 96.5259, 0.4606,  
0.4415


 26.6413, 0.5096,  
0.4652


 124.0529, 0.4509,  
0.4354

 17.3040, 0.5256,  
0.4697


 156.3710, 0.4422,  
0.4297

 10.4515, 0.5353,  
0.4647

 193.8646, 0.4344,  
0.4244

 5.6993, 0.5456,  
0.4544

 236.9182, 0.4273,  
0.4195

 2.6631, 0.5614,  
0.4386

 285.9160, 0.4210,

 0.9585, 0.5890,

0.4150

0.4110

341.2426, 0.4153,  
0.4109

0.0000, 1.0000,  
0.0000

0.0000, 0.0000,  
0.0000

54.3077, 0.4833,  
0.4544

54.3077, 0.4833,  
0.4544

54.2757, 0.4834,  
0.4544

57.4761, 0.4726,  
0.4566

60.8992, 0.4589,  
0.4541

64.6104, 0.4422,  
0.4466

68.6298, 0.4235,  
0.4348

■ 72.9743, 0.4037,  
0.4196

■ 77.6591, 0.3836,  
0.4023

■ 82.6978, 0.3640,  
0.3837

■ 88.1032, 0.3455,  
0.3649

■ 93.8870, 0.3283,  
0.3465

# Harmonies

## Analogous

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



54.3077, 0.5242, 0.3794



54.3077, 0.4833, 0.4544



54.3077, 0.4012, 0.5192

# Triad

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



54.3077, 0.4833, 0.4544



54.3077, 0.1553, 0.3095



54.3077, 0.2900, 0.1987

# Complementary

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



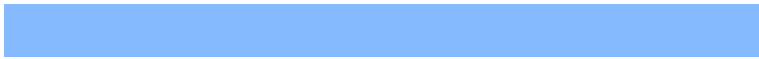
54.3077, 0.4833, 0.4544



12.1539, 0.1596, 0.0946

# 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.



54.3077, 0.2030, 0.1760



54.3077, 0.4833, 0.4544



54.3077, 0.1375, 0.2218

# Square

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



54.3077, 0.4833, 0.4544



54.3077, 0.2126, 0.4361



54.3077, 0.1534, 0.1814



54.3077, 0.4029, 0.2456



# Rectangle

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



54.3077, 0.4833, 0.4544



54.3077, 0.3363, 0.5341



54.3077, 0.1534, 0.1814



54.3077, 0.2569, 0.1882

# Sweetspot

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



54.3104, 0.4833, 0.4544



82.6484, 0.3642, 0.3840



21.7953, 0.5808, 0.2974



17.2263, 0.3724, 0.3918



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.



54.3104, 0.4833, 0.4544



54.2820, 0.4834, 0.4544



84.3563, 0.3837, 0.5335



20.1470, 0.3276, 0.3458



28.6335, 0.4821, 0.4554



2.9763, 0.4732, 0.4625



# Inverse Universe

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



12.1539, 0.1596, 0.0946



12.1260, 0.1596, 0.0944



7.9352, 0.1586, 0.0648



18.2371, 0.2979, 0.3116



6.5573, 0.1603, 0.0971



0.8169, 0.1664, 0.1189



# Previews

## White Background



This preview shows how the Yxy color 54.3077, 0.4833, 0.4544 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 54.3077, 0.4833, 0.4544 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 54.3077, 0.4833, 0.4544**

## Background



This preview shows how black text looks on a background with the Yxy color 54.3077, 0.4833, 0.4544.



This preview shows how white text looks on a background with the Yxy color 54.3077, 0.4833, 0.4544.

# 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

54.3077, 0.4833, 0.4544

### Protanopia

54.7329, 0.4385, 0.4864

### Deuteranopia

54.4721, 0.4731, 0.4626



## Tritanopia

54.1839, 0.3784, 0.3176

# Trichromacy



**Original Color**

54.3077, 0.4833, 0.4544

**Protanomaly**

54.6072, 0.4548, 0.4750

**Deuteranomaly**

54.6050, 0.4764, 0.4599

**Tritanomaly**

53.2043, 0.4366, 0.3885

# Monochromacy



**Original Color**

54.3077, 0.4833, 0.4544

**Achromatopsia**

47.3531, 0.3127, 0.3290

**Achromatomaly**

48.2956, 0.3910, 0.4084

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 54.3077, 0.4833, 0.4544 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, 181, 0)` looks like.

```
.text, #text, p{  
    color:rgb(255, 181, 0)  
}
```

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, 181, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 181, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 54.3077, 0.4833, 0.4544 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, 181, 0) }
```

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

```
.border{ border-color:rgb(255, 181, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 181, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 181, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 181, 0);  
box-shadow:4px 4px 4px 4px rgb(255, 181,  
0) }
```



# Background

The CSS property to change the background color of an element to Yxy 54.3077, 0.4833, 0.4544 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 181, 0) }
```

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

```
.background{ background-color: rgb(255,  
181, 0) }
```

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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