

# Converting Colors

$Yxy(52.3327, 0.4801, 0.4396)$

Have a look what the booklet for  
Yxy(52.3327, 0.4801, 0.4396)  
contains.

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# **Color**

**Yxy(52.5001, 0.4796, 0.4399)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFB02D
RGB	255, 176, 45
RGB Percent	100%, 69%, 18%
CMY	0.0000, 0.3098, 0.8232
CMYK	0.00, 0.31, 0.82, 0.00
HSL	37°, 100%, 59%
HSV	37°, 82%, 100%
XYZ	57.2381, 52.5001, 9.6073
YIQ	184.6870, 89.1350, -23.9930

# Conversions

## Conversions Part 2

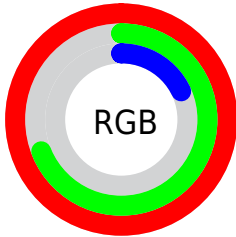
<b>Format</b>	<b>Color</b>
<b>RYB</b>	172, 255, 45
Decimal	16756781
CIELab	77.58, 18.88, 72.30
CIELCh	78, 74.728, 75.369
Yxy	52.5001, 0.4796, 0.4399
Android (android.graphics.Color)	4294946861 (0xFFFFB02D)
YUV	184.6870, -68.8657, 61.6645
Hunter-Lab	72.4570, 14.2083, 42.8584

# Details

The Yxy color **52.5001, 0.4796, 0.4399** is a light color, and the websafe version is hex **FF9900**. The color can be described as light washed orange. A complement of this color would be **22.2112, 0.1804, 0.1521**, and the grayscale version is **48.6919, 0.3127, 0.3290**.

A 20% lighter version of the original color is **79.9525, 0.4100, 0.4519**, and **25.7528, 0.5001, 0.4411** is the 20% darker color. If you saturate the color by 10%, you get **48.7308, 0.4964, 0.4392**, and if you desaturate by 10%, it is **56.6591, 0.4597, 0.4353**.

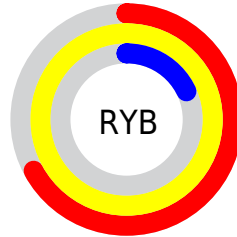
# Distribution



Red (100%)

Green (69%)

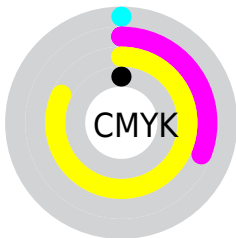
Blue (18%)



Red (67%)

Yellow (100%)

Blue (18%)

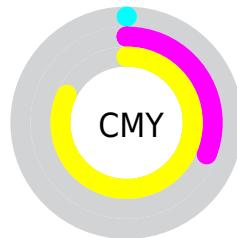


Cyan (0%)

Magenta (31%)

Yellow (82%)

Black (0%)



Cyan (0%)

Magenta (31%)


Yellow (82%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 52.5001, 0.4796, 0.4399 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 52.5001, 0.4796, 0.4399 by changing the saturation by 10% instead.





 52.5001, 0.4796,  
0.4399


 52.5001, 0.4796,  
0.4399


396.3642, 0.4048,  
0.3968


 37.4039, 0.4940,  
0.4459


 93.8684, 0.4554,  
0.4277


 25.5203, 0.5099,  
0.4510


 120.9092, 0.4454,  
0.4221


 16.4651, 0.5271,  
0.4541


 152.7003, 0.4365,  
0.4169

 9.8539, 0.5461,  
0.4539

 189.6261, 0.4287,  
0.4121

 5.3022, 0.5588,  
0.4412

 232.0710, 0.4217,  
0.4078

 2.4256, 0.5786,  
0.4214

 280.4194, 0.4154,

 0.8390, 0.6133,

0.4038

0.3867

335.0557, 0.4098,  
0.4001

0.0000, 1.0000,  
0.0000

0.0000, 0.0000,  
0.0000

52.5001, 0.4796,  
0.4399

52.5001, 0.4796,  
0.4399

48.7308, 0.4964,  
0.4392

56.6591, 0.4597,  
0.4353

46.0703, 0.5071,  
0.4355

61.2236, 0.4377,  
0.4260

66.2169, 0.4149,  
0.4131

71.6571, 0.3924,  
0.3980

77.5611, 0.3709,  
0.3816

83.9442, 0.3509,  
0.3648

90.8212, 0.3327,  
0.3483

98.2057, 0.3163,  
0.3325

99.9984, 0.3127,  
0.3290

# Harmonies

## Analogous

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



52.5001, 0.5081, 0.3704



52.5001, 0.4796, 0.4399



52.5001, 0.4083, 0.4996

# Triad

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



52.5001, 0.4796, 0.4399



52.5001, 0.1717, 0.3260



52.5001, 0.2805, 0.2035

# Complementary

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



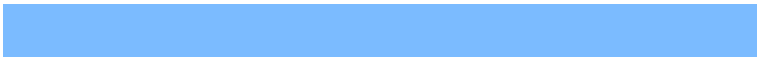
52.5001, 0.4796, 0.4399



22.2112, 0.1804, 0.1521

# 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.



52.5001, 0.2035, 0.1854



52.5001, 0.4796, 0.4399



52.5001, 0.1495, 0.2390

# Square

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



52.5001, 0.4796, 0.4399



52.5001, 0.2310, 0.4395



52.5001, 0.1605, 0.1949



52.5001, 0.3824, 0.2453



# Rectangle

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



52.5001, 0.4796, 0.4399



52.5001, 0.3488, 0.5158



52.5001, 0.1605, 0.1949



52.5001, 0.2511, 0.1947

# Sweetspot

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



52.5028, 0.4796, 0.4399



82.1915, 0.3561, 0.3693



24.6363, 0.4965, 0.2664



17.1103, 0.3631, 0.3752



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.



52.5028, 0.4796, 0.4399



46.4107, 0.5057, 0.4361



88.6110, 0.3976, 0.5104



19.8748, 0.3279, 0.3438



24.3711, 0.5053, 0.4370



2.5833, 0.4928, 0.4469



# Inverse Universe

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



22.2112, 0.1804, 0.1521



15.8860, 0.1662, 0.1179



10.3889, 0.1687, 0.0816



18.4976, 0.2979, 0.3138



8.4024, 0.1664, 0.1190



1.0201, 0.1726, 0.1415



# Previews

## White Background



This preview shows how the Yxy color 52.5001, 0.4796, 0.4399 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 52.5001, 0.4796, 0.4399 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 52.5001, 0.4796, 0.4399**

## **Background**



This preview shows how black text looks on a background with the Yxy color 52.5001, 0.4796, 0.4399.



This preview shows how white text looks on a background with the Yxy color 52.5001, 0.4796, 0.4399.

# 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

52.5001, 0.4796, 0.4399

### Protanopia

52.5200, 0.4308, 0.4741

### Deuteranopia

52.5003, 0.4645, 0.4535



## Tritanopia

52.4796, 0.3843, 0.3187

# Trichromacy



## Original Color

52.5001, 0.4796, 0.4399

## Protanomaly

52.1542, 0.4486, 0.4613

## Deuteranomaly

52.5911, 0.4701, 0.4486

## Tritanomaly

51.9975, 0.4279, 0.3719

# Monochromacy



## Original Color

52.5001, 0.4796, 0.4399

## Achromatopsia

48.5150, 0.3127, 0.3290

## Achromatomaly

48.8788, 0.3779, 0.3880

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 52.5001, 0.4796, 0.4399 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, 176, 45)` looks like.

```
.text, #text, p{  
    color:rgb(255, 176, 45)  
}
```

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, 176, 45) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 176, 45) }
```

## Border

The CSS property to change the border of an element to Yxy 52.5001, 0.4796, 0.4399 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, 176, 45) }
```

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

```
.border{ border-color:rgb(255, 176, 45) }
```

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

Here you see how a box with a 4 pixel rgb(255, 176, 45) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 176, 45); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 176, 45);  
box-shadow:4px 4px 4px 4px rgb(255, 176,  
45) }
```



# Background

The CSS property to change the background color of an element to Yxy 52.5001, 0.4796, 0.4399 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 176, 45) }
```

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

```
.background{ background-color: rgb(255,  
176, 45) }
```

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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