

# Converting Colors

$Y_{xy}(48.2781, 0.5149, 0.4221)$

Have a look what the booklet for  
Yxy(48.2781, 0.5149, 0.4221)  
contains.

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# Color

**Yxy(45.4485, 0.5052, 0.4293)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF9D1A
RGB	255, 157, 26
RGB Percent	100%, 62%, 10%
CMY	0.0000, 0.3843, 0.8978
CMYK	0.00, 0.38, 0.90, 0.00
HSL	34°, 100%, 55%
HSV	34°, 90%, 100%
XYZ	53.4838, 45.4485, 6.9343
YIQ	171.3680, 100.4590, -19.9650

# Conversions

## Conversions Part 2

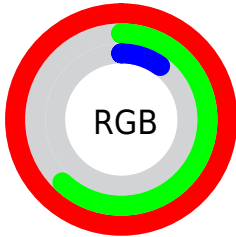
Format	Color
<a href="#">RYB</a>	<a href="#">197, 255, 26</a>
Decimal	<a href="#">16751898</a>
CIELab	<a href="#">73.19, 28.37, 73.90</a>
CIElCh	<a href="#">73, 79.159, 69.000</a>
Yxy	<a href="#">45.4485, 0.5052, 0.4293</a>
Android (android.graphics.Color)	<a href="#">4294941978</a> ( <a href="#">0xFFFF9D1A</a> )
YUV	<a href="#">171.3680, -71.6664, 73.3453</a>
Hunter-Lab	<a href="#">67.4155, 23.6350, 41.0924</a>

# Details

The Yxy color **45.4485, 0.5052, 0.4293** is a dark color, and the websafe version is hex **FF9900**. The color can be described as middle washed orange. A complement of this color would be **21.8701, 0.1771, 0.1508**, and the grayscale version is **41.2547, 0.3127, 0.3290**.

A 20% lighter version of the original color is **69.0515, 0.4303, 0.4465**, and **21.3096, 0.5274, 0.4195** is the 20% darker color. If you saturate the color by 10%, you get **41.8471, 0.5218, 0.4237**, and if you desaturate by 10%, it is **49.4801, 0.4850, 0.4298**.

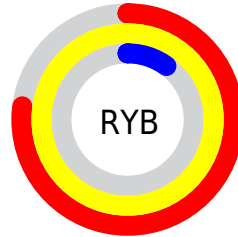
# Distribution



Red (100%)

Green (62%)

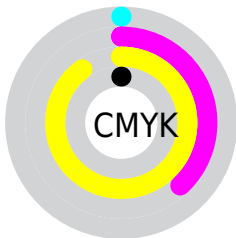
Blue (10%)



Red (77%)

Yellow (100%)

Blue (10%)

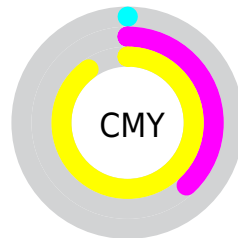


Cyan (0%)

Magenta (38%)

Yellow (90%)

Black (0%)



Cyan (0%)

Magenta (38%)

Yellow (90%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 45.4485, 0.5052, 0.4293 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 45.4485, 0.5052, 0.4293 by changing the saturation by 10% instead.





 45.4485, 0.5052,  
0.4293


 45.4485, 0.5052,  
0.4293


368.5870, 0.4172,  
0.3939


 31.8108, 0.5222,  
0.4324


 83.3930, 0.4766,  
0.4207


 21.2171, 0.5408,  
0.4332


 108.4687, 0.4648,  
0.4162


 13.2828, 0.5653,  
0.4335

 138.1258, 0.4544,  
0.4118

 7.6235, 0.5808,  
0.4192

 172.7488, 0.4451,  
0.4077

 3.8550, 0.6023,  
0.3977

 212.7220, 0.4369,  
0.4039

 1.5928, 0.6363,  
0.3637

 258.4298, 0.4296,

 0.3527, 0.7471,

0.4003

0.2529

310.2567, 0.4231,  
0.3970

■ 0.0000, 0.0000,  
0.0000

■ 45.4485, 0.5052,  
0.4293

■ 45.4485, 0.5052,  
0.4293

■ 41.8471, 0.5218,  
0.4237

■ 49.4801, 0.4850,  
0.4298

■ 41.7712, 0.5222,  
0.4236

■ 53.9712, 0.4620,  
0.4250

■ 58.9496, 0.4374,  
0.4157

■ 64.4379, 0.4127,  
0.4033

■ 70.4562, 0.3889,  
0.3888

 77.0235, 0.3668,  
0.3735

 84.1573, 0.3466,  
0.3580

 91.8742, 0.3285,  
0.3430

99.9997, 0.3127,  
0.3290

# Harmonies

## Analogous

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



45.4485, 0.5261, 0.3546



45.4485, 0.5052, 0.4293



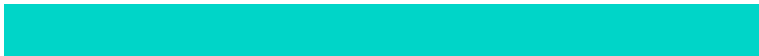
45.4485, 0.4328, 0.5023

# Triad

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



45.4485, 0.5052, 0.4293



45.4485, 0.1684, 0.3504



45.4485, 0.2557, 0.1866

# Complementary

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



45.4485, 0.5052, 0.4293



21.8701, 0.1771, 0.1508

# 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.



45.4485, 0.1808, 0.1729



45.4485, 0.5052, 0.4293



45.4485, 0.1377, 0.2445

# Square

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



45.4485, 0.5052, 0.4293



45.4485, 0.2395, 0.4781



45.4485, 0.1428, 0.1891



45.4485, 0.3644, 0.2262



# Rectangle

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



45.4485, 0.5052, 0.4293



45.4485, 0.3699, 0.5336



45.4485, 0.1428, 0.1891



45.4485, 0.2264, 0.1790

# Sweetspot

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



45.4509, 0.5052, 0.4293



78.9488, 0.3610, 0.3692



23.4890, 0.5011, 0.2597



16.3934, 0.3681, 0.3745



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.



45.4509, 0.5052, 0.4293



41.7718, 0.5222, 0.4236



90.0731, 0.4069, 0.5105



19.7121, 0.3280, 0.3426



22.1291, 0.5200, 0.4253



2.3716, 0.5054, 0.4369



# Inverse Universe

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



21.8701, 0.1771, 0.1508



18.1892, 0.1698, 0.1312



8.4398, 0.1573, 0.0686



18.6562, 0.2979, 0.3150



9.7864, 0.1706, 0.1343



1.1644, 0.1768, 0.1563



# Previews

## White Background



This preview shows how the Yxy color 45.4485, 0.5052, 0.4293 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 45.4485, 0.5052, 0.4293 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 45.4485, 0.5052, 0.4293**

## Background



This preview shows how black text looks on a background with the Yxy color 45.4485, 0.5052, 0.4293.



This preview shows how white text looks on a background with the Yxy color 45.4485, 0.5052, 0.4293.

# 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

45.4485, 0.5052, 0.4293

### Protanopia

45.8541, 0.4343, 0.4807

### Deuteranopia

45.6373, 0.4716, 0.4618



## Tritanopia

45.5759, 0.4099, 0.3198

# Trichromacy



## Original Color

45.4485, 0.5052, 0.4293

## Protanomaly

45.1284, 0.4613, 0.4614

## Deuteranomaly

45.4841, 0.4844, 0.4498

## Tritanomaly

45.1902, 0.4567, 0.3719

# Monochromacy



## Original Color

45.4485, 0.5052, 0.4293

## Achromatopsia

40.7240, 0.3127, 0.3290

## Achromatomaly

41.1370, 0.3918, 0.3906

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 45.4485, 0.5052, 0.4293 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, 157, 26)` looks like.

```
.text, #text, p{  
    color:rgb(255, 157, 26)  
}
```

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, 157, 26) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 157, 26) }
```

## Border

The CSS property to change the border of an element to Yxy 45.4485, 0.5052, 0.4293 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, 157, 26) }
```

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

```
.border{ border-color:rgb(255, 157, 26) }
```

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

Here you see how a box with a 4 pixel rgb(255, 157, 26) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 157, 26); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 157, 26);  
box-shadow:4px 4px 4px 4px rgb(255, 157,  
26) }
```



# Background

The CSS property to change the background color of an element to Yxy 45.4485, 0.5052, 0.4293 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 157, 26) }
```

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

```
.background{ background-color: rgb(255,  
157, 26) }
```

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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