

# Converting Colors

Yxy(50.2218, 0.4750, 0.4216)

Have a look what the booklet for  
Yxy(50.2218, 0.4750, 0.4216)  
contains.

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# Color

**Yxy(50.0656, 0.4753, 0.4211)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFA945
RGB	255, 169, 69
RGB Percent	100%, 66%, 27%
CMY	0.0000, 0.3373, 0.7294
CMYK	0.00, 0.34, 0.73, 0.00
HSL	32°, 100%, 64%
HSV	32°, 73%, 100%
XYZ	56.5096, 50.0656, 12.3173
YIQ	183.3140, 83.3560, -12.8680

# Conversions

## Conversions Part 2

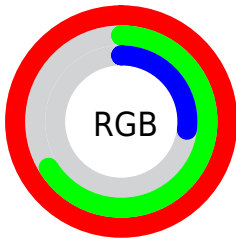
Format	Color
R <sub>Y</sub> B	229, 255, 69
Decimal	16755013
CIE Lab	76.11, 23.41, 62.08
CIE LCh	76, 66.350, 69.339
Yxy	50.0656, 0.4753, 0.4211
Android (android.graphics.Color)	4294945093 (0xFFFFA945)
YUV	183.3140, -56.3568, 62.8686
Hunter-Lab	70.7570, 18.7328, 39.2088

# Details

The Yxy color **50.0656, 0.4753, 0.4211** is a light color, and the websafe version is hex **FF9933**. The color can be described as light washed orange. A complement of this color would be **31.9353, 0.1974, 0.1956**, and the grayscale version is **47.8146, 0.3127, 0.3290**.

A 20% lighter version of the original color is **75.9764, 0.4041, 0.4300**, and **24.0710, 0.5091, 0.4318** is the 20% darker color. If you saturate the color by 10%, you get **45.6203, 0.4993, 0.4236**, and if you desaturate by 10%, it is **55.0380, 0.4494, 0.4139**.

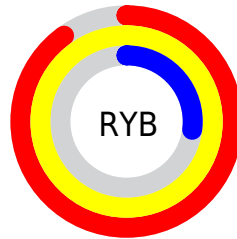
# Distribution



Red (100%)

Green (66%)

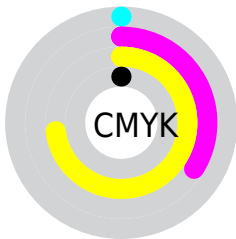
Blue (27%)



Red (90%)

Yellow (100%)

Blue (27%)

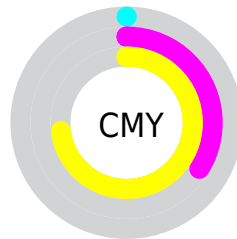


Cyan (0%)

Magenta (34%)

Yellow (73%)

Black (0%)



Cyan (0%)

Magenta (34%)


Yellow (73%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 50.0656, 0.4753, 0.4211 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 50.0656, 0.4753, 0.4211 by changing the saturation by 10% instead.





 50.0656, 0.4753,  
0.4211

 50.0656, 0.4753,  
0.4211

386.9224, 0.3992,  
0.3846


 35.4655, 0.4913,  
0.4265


 90.2721, 0.4497,  
0.4105


 24.0217, 0.5097,  
0.4313


 116.6472, 0.4394,  
0.4057

 15.3497, 0.5307,  
0.4342


 147.7162, 0.4305,  
0.4013

 9.0652, 0.5610,  
0.4384

 183.8635, 0.4226,  
0.3973

 4.7837, 0.5777,  
0.4223

 225.4733, 0.4157,  
0.3937

 2.1209, 0.6030,  
0.3970

272.9301, 0.4096,

 0.6764, 0.6529,

0.3904

0.3471

326.6184, 0.4041,  
0.3873

0.0000, 1.0000,  
0.0000

0.0000, 0.0000,  
0.0000

50.0656, 0.4753,  
0.4211

50.0656, 0.4753,  
0.4211

45.6203, 0.4993,  
0.4236

55.0380, 0.4494,  
0.4139

41.6798, 0.5200,  
0.4205

60.5699, 0.4232,  
0.4030

39.1737, 0.5324,  
0.4155

66.6819, 0.3980,  
0.3899

73.3955, 0.3745,  
0.3756

80.7305, 0.3532,  
0.3609

88.7055, 0.3341,  
0.3466

97.3383, 0.3173,  
0.3329

100.0000, 0.3127,  
0.3290

# Harmonies

## Analogous

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



50.0656, 0.4886, 0.3570



50.0656, 0.4753, 0.4211



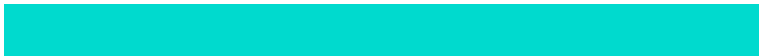
50.0656, 0.4175, 0.4770

# Triad

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



50.0656, 0.4753, 0.4211



50.0656, 0.1923, 0.3473



50.0656, 0.2674, 0.2080

# Complementary

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



50.0656, 0.4753, 0.4211



31.9353, 0.1974, 0.1956

# 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.



50.0656, 0.2021, 0.1962



50.0656, 0.4753, 0.4211



50.0656, 0.1638, 0.2610

# Square

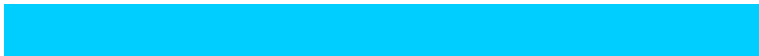
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



50.0656, 0.4753, 0.4211



50.0656, 0.2541, 0.4453



50.0656, 0.1677, 0.2118



50.0656, 0.3572, 0.2430



# Rectangle

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



50.0656, 0.4753, 0.4211



50.0656, 0.3650, 0.4962



50.0656, 0.1677, 0.2118



50.0656, 0.2423, 0.2013

# Sweetspot

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



50.0633, 0.4753, 0.4211



81.4492, 0.3513, 0.3596



27.9118, 0.4430, 0.2505



16.9909, 0.3568, 0.3635



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.



50.0633, 0.4753, 0.4211



43.5640, 0.5103, 0.4227



92.0529, 0.4049, 0.4915



19.6046, 0.3281, 0.3418



20.7714, 0.5300, 0.4173



2.2412, 0.5139, 0.4301



# Inverse Universe

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



31.9353, 0.1974, 0.1956



24.6580, 0.1815, 0.1646



12.9825, 0.1750, 0.0984



18.7622, 0.2979, 0.3159



10.8247, 0.1736, 0.1451



1.2698, 0.1796, 0.1665



# Previews

## White Background



This preview shows how the Yxy color 50.0656, 0.4753, 0.4211 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 50.0656, 0.4753, 0.4211 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 50.0656, 0.4753, 0.4211**

## **Background**



This preview shows how black text looks on a background with the Yxy color 50.0656, 0.4753, 0.4211.



This preview shows how white text looks on a background with the Yxy color 50.0656, 0.4753, 0.4211.

# 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

50.0656, 0.4753, 0.4211

### Protanopia

50.1625, 0.4175, 0.4572

### Deuteranopia

50.2957, 0.4513, 0.4419



## Tritanopia

50.0792, 0.3921, 0.3187

# Trichromacy



## Original Color

50.0656, 0.4753, 0.4211

## Protanomaly

49.6844, 0.4385, 0.4441

## Deuteranomaly

49.9424, 0.4603, 0.4340

## Tritanomaly

49.9195, 0.4267, 0.3606

# Monochromacy



## Original Color

50.0656, 0.4753, 0.4211

## Achromatopsia

47.3531, 0.3127, 0.3290

## Achromatomaly

47.3491, 0.3717, 0.3737

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 50.0656, 0.4753, 0.4211 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, 169, 69)` looks like.

```
.text, #text, p{  
    color:rgb(255, 169, 69)  
}
```

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, 169, 69) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 169, 69) }
```

## Border

The CSS property to change the border of an element to Yxy 50.0656, 0.4753, 0.4211 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, 169, 69) }
```

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

```
.border{ border-color:rgb(255, 169, 69) }
```

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

Here you see how a box with a 4 pixel rgb(255, 169, 69) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 169, 69); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 169, 69);  
box-shadow:4px 4px 4px 4px rgb(255, 169,  
69) }
```



# Background

The CSS property to change the background color of an element to Yxy 50.0656, 0.4753, 0.4211 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 169, 69) }
```

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

```
.background{ background-color: rgb(255,  
169, 69) }
```

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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