

# Converting Colors

$Y_{xy}(46.4228, 0.5142, 0.3992)$

Have a look what the booklet for  
Yxy(46.4228, 0.5142, 0.3992)  
contains.

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# Color

**Yxy(42.7661, 0.5006, 0.4067)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF943C
RGB	255, 148, 60
RGB Percent	100%, 58%, 24%
CMY	0.0001, 0.4195, 0.7649
CMYK	0.00, 0.42, 0.76, 0.00
HSL	27°, 100%, 62%
HSV	27°, 76%, 100%
XYZ	52.6401, 42.7661, 9.7478
YIQ	169.9610, 92.0200, -4.6840

# Conversions

## Conversions Part 2

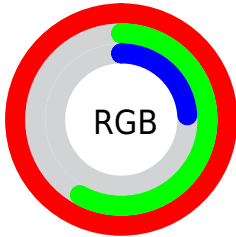
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 220, 60
Decimal	16749628
CIE <sub>Lab</sub>	71.40, 33.90, 61.21
CIE <sub>LCh</sub>	71, 69.974, 61.020
Yxy	42.7661, 0.5006, 0.4067
Android (android.graphics.Color)	4294939708 (0xFFFF943C)
YUV	169.9610, -54.2108, 74.5792
Hunter-Lab	65.3958, 29.2401, 36.9394

# Details

The Yxy color **42.7661, 0.5006, 0.4067** 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 **35.7836, 0.1992, 0.2115**, and the grayscale version is **40.4187, 0.3127, 0.3290**.

A 20% lighter version of the original color is **65.1641, 0.4218, 0.4191**, and **19.5722, 0.5411, 0.4086** is the 20% darker color. If you saturate the color by 10%, you get **38.4348, 0.5279, 0.4053**, and if you desaturate by 10%, it is **47.7617, 0.4708, 0.4029**.

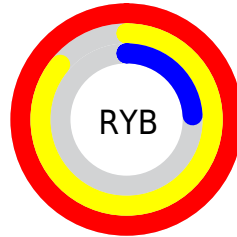
# Distribution



Red (100%)

Green (58%)

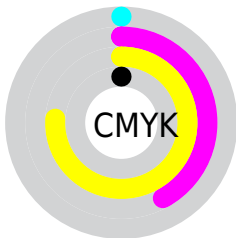
Blue (24%)



Red (100%)

Yellow (86%)

Blue (24%)

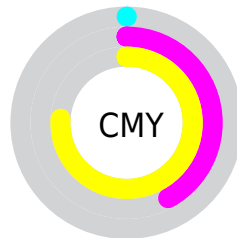


Cyan (0%)

Magenta (42%)

Yellow (76%)

Black (0%)



Cyan (0%)

Magenta (42%)


Yellow (76%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 42.7661, 0.5006, 0.4067 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 42.7661, 0.5006, 0.4067 by changing the saturation by 10% instead.





 42.7661, 0.5006,  
0.4067

 42.7661, 0.5006,  
0.4067


357.6490, 0.4101,  
0.3788

 29.7016, 0.5201,  
0.4093


 79.3578, 0.4697,  
0.3997


 19.6122, 0.5427,  
0.4100


 103.6538, 0.4574,  
0.3962


 12.1135, 0.5689,  
0.4072


 132.4624, 0.4468,  
0.3927

 6.8210, 0.6010,  
0.3990

 166.1681, 0.4375,  
0.3895

 3.3504, 0.6276,  
0.3724

 205.1552, 0.4294,  
0.3865

 1.3173, 0.6696,  
0.3304

249.8081, 0.4222,

 0.1545, 0.8640,

0.3837

0.1360

300.5112, 0.4158,  
0.3812

0.0000, 0.0000,  
0.0000

42.7661, 0.5006,  
0.4067

42.7661, 0.5006,  
0.4067

38.4348, 0.5279,  
0.4053

47.7617, 0.4708,  
0.4029

34.7216, 0.5508,  
0.3984

53.4492, 0.4408,  
0.3951

33.5504, 0.5580,  
0.3951

59.8618, 0.4120,  
0.3847

67.0283, 0.3856,  
0.3728

74.9755, 0.3620,  
0.3604

■ 83.7286, 0.3412,  
0.3481

■ 93.3117, 0.3231,  
0.3363

99.9968, 0.3127,  
0.3290

# Harmonies

## Analogous

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



42.7661, 0.5002, 0.3379



42.7661, 0.5006, 0.4067



42.7661, 0.4463, 0.4743

# Triad

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



42.7661, 0.5006, 0.4067



42.7661, 0.1952, 0.3803



42.7661, 0.2393, 0.1914

# Complementary

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



42.7661, 0.5006, 0.4067



35.7836, 0.1992, 0.2115

# 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.



42.7661, 0.1785, 0.1859



42.7661, 0.5006, 0.4067



42.7661, 0.1553, 0.2749

# Square

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



42.7661, 0.5006, 0.4067



42.7661, 0.2704, 0.4842



42.7661, 0.1510, 0.2108



42.7661, 0.3322, 0.2225



# Rectangle

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



42.7661, 0.5006, 0.4067



42.7661, 0.3922, 0.5074



42.7661, 0.1510, 0.2108



42.7661, 0.2152, 0.1865

# Sweetspot

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



42.7684, 0.5006, 0.4067



77.9482, 0.3544, 0.3560



27.2813, 0.4281, 0.2343



16.0281, 0.3622, 0.3605



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.



42.7684, 0.5006, 0.4067



36.3199, 0.5412, 0.4022



87.0275, 0.4179, 0.4864



19.3379, 0.3283, 0.3398



17.8222, 0.5552, 0.3973



1.9500, 0.5359, 0.4127



# Inverse Universe

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



35.7836, 0.1992, 0.2115



28.8879, 0.1858, 0.1844



12.5210, 0.1693, 0.0960



19.0292, 0.2979, 0.3180



13.8531, 0.1816, 0.1739



1.5672, 0.1869, 0.1930



# Previews

## White Background



This preview shows how the Yxy color 42.7661, 0.5006, 0.4067 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 42.7661, 0.5006, 0.4067 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 42.7661, 0.5006, 0.4067**

## Background



This preview shows how black text looks on a background with the Yxy color 42.7661, 0.5006, 0.4067.



This preview shows how white text looks on a background with the Yxy color 42.7661, 0.5006, 0.4067.

# 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

42.7661, 0.5006, 0.4067

### Protanopia

43.2038, 0.4172, 0.4583

### Deuteranopia

42.7544, 0.4564, 0.4453



## Tritanopia

42.8404, 0.4219, 0.3199

# Trichromacy



**Original Color**

42.7661, 0.5006, 0.4067

**Protanomaly**

42.4058, 0.4476, 0.4393

**Deuteranomaly**

42.4054, 0.4739, 0.4301

**Tritanomaly**

42.5145, 0.4560, 0.3559

# Monochromacy



**Original Color**

42.7661, 0.5006, 0.4067

**Achromatopsia**

40.1978, 0.3127, 0.3290

**Achromatomaly**

39.8699, 0.3815, 0.3707

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 42.7661, 0.5006, 0.4067 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, 148, 60)` looks like.

```
.text, #text, p{  
    color:rgb(255, 148, 60)  
}
```

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, 148, 60) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 148, 60) }
```

## Border

The CSS property to change the border of an element to Yxy 42.7661, 0.5006, 0.4067 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, 148, 60) }
```

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

```
.border{ border-color:rgb(255, 148, 60) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 148, 60)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 148, 60); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 148, 60);  
box-shadow:4px 4px 4px 4px rgb(255, 148,  
60) }
```



# Background

The CSS property to change the background color of an element to Yxy 42.7661, 0.5006, 0.4067 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 148, 60) }
```

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

```
.background{ background-color: rgb(255,  
148, 60) }
```

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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