

# Converting Colors

$Y_{xy}(42.1923, 0.5071, 0.4100)$

Have a look what the booklet for  
Yxy(42.1923, 0.5071, 0.4100)  
contains.

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# Color

**Yxy(42.0568, 0.5076, 0.4096)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF9233
RGB	255, 146, 51
RGB Percent	100%, 57%, 20%
CMY	0.0000, 0.4274, 0.8000
CMYK	0.00, 0.43, 0.80, 0.00
HSL	28°, 100%, 60%
HSV	28°, 80%, 100%
XYZ	52.1192, 42.0568, 8.5017
YIQ	167.7610, 95.4590, -6.4370

# Conversions

## Conversions Part 2

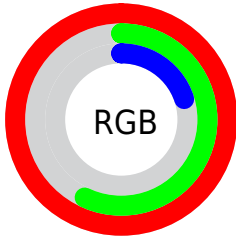
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	255, 229, 51
Decimal	16749107
CIE Lab	70.91, 34.64, 64.36
CIE LCh	71, 73.091, 61.712
Yxy	42.0568, 0.5076, 0.4096
Android (android.graphics.Color)	4294939187 (0xFFFF9233)
YUV	167.7610, -57.5632, 76.5086
Hunter-Lab	64.8512, 29.9661, 37.6232

# Details

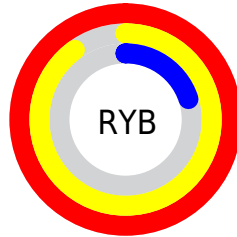
The Yxy color **42.0568, 0.5076, 0.4096** is a light color, and the websafe version is hex **FF9933**. The color can be described as light washed orange. A complement of this color would be **33.0628, 0.1946, 0.2012**, and the grayscale version is **39.2865, 0.3127, 0.3290**.

A 20% lighter version of the original color is **64.0532, 0.4282, 0.4241**, and **19.2119, 0.5442, 0.4061** is the 20% darker color. If you saturate the color by 10%, you get **37.9373, 0.5329, 0.4066**, and if you desaturate by 10%, it is **46.8008, 0.4792, 0.4072**.

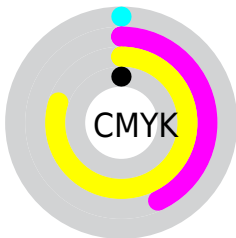
# Distribution



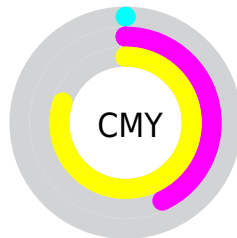
- Red (100%)
- Green (57%)
- Blue (20%)



- Red (100%)
- Yellow (90%)
- Blue (20%)



- Cyan (0%)
- Magenta (43%)
- Yellow (80%)
- Black (0%)




- Cyan (0%)
- Magenta (43%)
- Yellow (80%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 42.0568, 0.5076, 0.4096 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 42.0568, 0.5076, 0.4096 by changing the saturation by 10% instead.





 42.0568, 0.5076,  
0.4096

 42.0568, 0.5076,  
0.4096


354.7183, 0.4144,  
0.3816


 29.1458, 0.5272,  
0.4117


 78.2856, 0.4761,  
0.4030


 19.1911, 0.5497,  
0.4116


 102.3721, 0.4634,  
0.3994


 11.8085, 0.5768,  
0.4083


 130.9526, 0.4524,  
0.3959

 6.6134, 0.6043,  
0.3957

 164.4115, 0.4428,  
0.3926

 3.2215, 0.6318,  
0.3682

 203.1331, 0.4344,  
0.3896

 1.2484, 0.6755,  
0.3245

 247.5018, 0.4270,

 0.1007, 0.9037,

0.3867

0.0963

297.9021, 0.4203,  
0.3840

0.0000, 0.0000,  
0.0000

42.0568, 0.5076,  
0.4096

42.0568, 0.5076,  
0.4096

37.9373, 0.5329,  
0.4066

46.8008, 0.4792,  
0.4072

34.3955, 0.5538,  
0.3985

52.2024, 0.4497,  
0.4004

58.2927, 0.4209,  
0.3904

65.0998, 0.3940,  
0.3785

72.6499, 0.3696,  
0.3658

80.9676, 0.3480,  
0.3531

90.0761, 0.3291,  
0.3407

99.9976, 0.3127,  
0.3290

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.



42.0568, 0.5100, 0.3385



42.0568, 0.5076, 0.4096



42.0568, 0.4489, 0.4807

# Triad

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



42.0568, 0.5076, 0.4096



42.0568, 0.1883, 0.3798



42.0568, 0.2377, 0.1866

# Complementary

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



42.0568, 0.5076, 0.4096



33.0628, 0.1946, 0.2012

# 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.



42.0568, 0.1742, 0.1801



42.0568, 0.5076, 0.4096



42.0568, 0.1486, 0.2695

# Square

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



42.0568, 0.5076, 0.4096



42.0568, 0.2653, 0.4915



42.0568, 0.1452, 0.2044



42.0568, 0.3353, 0.2192



# Rectangle

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



42.0568, 0.5076, 0.4096



42.0568, 0.3919, 0.5162



42.0568, 0.1452, 0.2044



42.0568, 0.2125, 0.1814

# Sweetspot

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



42.0571, 0.5076, 0.4096



77.5488, 0.3563, 0.3581



26.2786, 0.4358, 0.2335



15.9690, 0.3641, 0.3627



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.



42.0571, 0.5076, 0.4096



35.7492, 0.5458, 0.4021



86.6827, 0.4204, 0.4896



19.3815, 0.3283, 0.3401



18.2647, 0.5511, 0.4006



1.9945, 0.5323, 0.4156

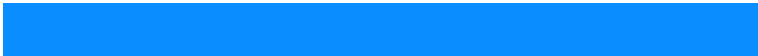


# Inverse Universe

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



33.0628, 0.1946, 0.2012



26.3340, 0.1819, 0.1729



11.2819, 0.1647, 0.0881



18.9851, 0.2979, 0.3176



13.3114, 0.1803, 0.1690



1.5149, 0.1857, 0.1886



# Previews

## White Background



This preview shows how the Yxy color 42.0568, 0.5076, 0.4096 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 42.0568, 0.5076, 0.4096 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 42.0568, 0.5076, 0.4096**

## **Background**



This preview shows how black text looks on a background with the Yxy color 42.0568, 0.5076, 0.4096.



This preview shows how white text looks on a background with the Yxy color 42.0568, 0.5076, 0.4096.

# 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

42.0568, 0.5076, 0.4096

### Protanopia

42.1797, 0.4234, 0.4650

### Deuteranopia

42.1522, 0.4611, 0.4507



## Tritanopia

42.1861, 0.4250, 0.3200

# Trichromacy



**Original Color**

42.0568, 0.5076, 0.4096

**Protanomaly**

41.5785, 0.4551, 0.4444

**Deuteranomaly**

41.8148, 0.4785, 0.4348

**Tritanomaly**

41.7983, 0.4624, 0.3587

# Monochromacy



**Original Color**

42.0568, 0.5076, 0.4096

**Achromatopsia**

39.1572, 0.3127, 0.3290

**Achromatomaly**

38.9016, 0.3863, 0.3748

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 42.0568, 0.5076, 0.4096 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, 146, 51)` looks like.

```
.text, #text, p{  
    color:rgb(255, 146, 51)  
}
```

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, 146, 51) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 146, 51) }
```

## Border

The CSS property to change the border of an element to Yxy 42.0568, 0.5076, 0.4096 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, 146, 51) }
```

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

```
.border{ border-color:rgb(255, 146, 51) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 146, 51)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 146, 51); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 146, 51);  
box-shadow:4px 4px 4px 4px rgb(255, 146,  
51) }
```



# Background

The CSS property to change the background color of an element to Yxy 42.0568, 0.5076, 0.4096 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 146, 51) }
```

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

```
.background{ background-color: rgb(255,  
146, 51) }
```

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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