

# Converting Colors

$Y_{xy}(52.5458, 0.5291, 0.3865)$

Have a look what the booklet for  
Yxy(52.5458, 0.5291, 0.3865)  
contains.

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# Color

**Yxy(42.5208, 0.4979, 0.4020)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF9342
RGB	255, 147, 66
RGB Percent	100%, 58%, 26%
CMY	0.0000, 0.4236, 0.7411
CMYK	0.00, 0.42, 0.74, 0.00
HSL	26°, 100%, 63%
HSV	26°, 74%, 100%
XYZ	52.6644, 42.5208, 10.5879
YIQ	170.0580, 90.3690, -2.2950

# Conversions

## Conversions Part 2

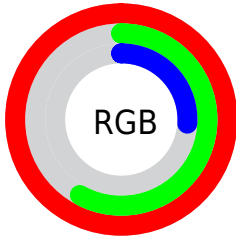
Format	Color
R <sub>Y</sub> B	255, 208, 66
Decimal	16749378
CIE Lab	71.23, 34.69, 58.42
CIE LCh	71, 67.946, 59.301
Yxy	42.5208, 0.4979, 0.4020
Android (android.graphics.Color)	4294939458 (0xFFFF9342)
YUV	170.0580, -51.3006, 74.4941
Hunter-Lab	65.2080, 30.0494, 36.0186

# Details

The Yxy color **42.5208, 0.4979, 0.4020** 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 **38.6602, 0.2033, 0.2218**, and the grayscale version is **40.4534, 0.3127, 0.3290**.

A 20% lighter version of the original color is **64.8091, 0.4190, 0.4138**, and **19.4062, 0.5405, 0.4055** is the 20% darker color. If you saturate the color by 10%, you get **38.0328, 0.5272, 0.4015**, and if you desaturate by 10%, it is **47.7120, 0.4667, 0.3977**.

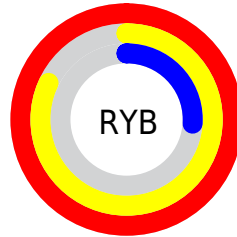
# Distribution



Red (100%)

Green (58%)

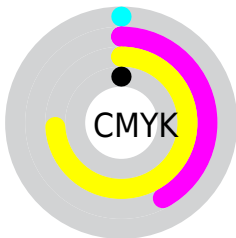
Blue (26%)



Red (100%)

Yellow (82%)

Blue (26%)

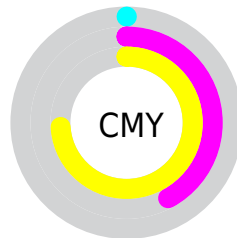


Cyan (0%)

Magenta (42%)

Yellow (74%)

Black (0%)



Cyan (0%)

Magenta (42%)


Yellow (74%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 42.5208, 0.4979, 0.4020 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 42.5208, 0.4979, 0.4020 by changing the saturation by 10% instead.




 42.5208, 0.4979,  
0.4020


 42.5208, 0.4979,  
0.4020

356.6373, 0.4079,  
0.3757


 29.5093, 0.5176,  
0.4045


 78.9872, 0.4669,  
0.3954


 19.4664, 0.5408,  
0.4053


 103.2110, 0.4547,  
0.3920


 12.0078, 0.5678,  
0.4025


 131.9409, 0.4441,  
0.3887

 6.7490, 0.6038,  
0.3962

 165.5614, 0.4349,  
0.3857

 3.3056, 0.6310,  
0.3690

 204.4569, 0.4269,  
0.3829

 1.2933, 0.6739,  
0.3261

249.0118, 0.4198,

 0.1360, 0.8785,

0.3803

0.1215

299.6105, 0.4135,  
0.3779

■ 0.0000, 0.0000,  
0.0000

■ 42.5208, 0.4979,  
0.4020

■ 42.5208, 0.4979,  
0.4020

■ 38.0328, 0.5272,  
0.4015

■ 47.7120, 0.4667,  
0.3977

■ 34.2147, 0.5522,  
0.3954


■ 53.6499, 0.4358,  
0.3897

■ 32.2533, 0.5648,  
0.3898

■ 60.3650, 0.4068,  
0.3793

■ 67.8876, 0.3804,  
0.3678

■ 76.2464, 0.3571,  
0.3560

 85.4684, 0.3368,  
0.3444

 95.5793, 0.3192,  
0.3333

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.



42.5208, 0.4933, 0.3346



42.5208, 0.4979, 0.4020



42.5208, 0.4479, 0.4681

# Triad

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



42.5208, 0.4979, 0.4020



42.5208, 0.2015, 0.3856



42.5208, 0.2368, 0.1932

# Complementary

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



42.5208, 0.4979, 0.4020



38.6602, 0.2033, 0.2218

# 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.



42.5208, 0.1790, 0.1895



42.5208, 0.4979, 0.4020



42.5208, 0.1600, 0.2816

# Square

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



42.5208, 0.4979, 0.4020



42.5208, 0.2769, 0.4834



42.5208, 0.1537, 0.2162



42.5208, 0.3261, 0.2225



# Rectangle

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



42.5208, 0.4979, 0.4020



42.5208, 0.3959, 0.5011



42.5208, 0.1537, 0.2162



42.5208, 0.2138, 0.1890

# Sweetspot

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



42.5183, 0.4979, 0.4020



78.1209, 0.3526, 0.3535



28.3030, 0.4139, 0.2295



16.2073, 0.3584, 0.3567



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.



42.5183, 0.4979, 0.4020



36.0857, 0.5401, 0.3992



83.5338, 0.4202, 0.4797



19.2668, 0.3284, 0.3392



17.1353, 0.5619, 0.3920



1.8800, 0.5419, 0.4079

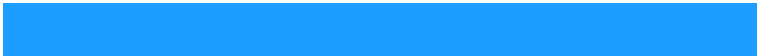


# Inverse Universe

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



38.6602, 0.2033, 0.2218



31.8384, 0.1900, 0.1969



14.3779, 0.1741, 0.1074



19.1014, 0.2979, 0.3186



14.7747, 0.1839, 0.1819



1.6555, 0.1890, 0.2002



# Previews

## White Background



This preview shows how the Yxy color 42.5208, 0.4979, 0.4020 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 42.5208, 0.4979, 0.4020 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 42.5208, 0.4979, 0.4020**

## Background



This preview shows how black text looks on a background with the Yxy color 42.5208, 0.4979, 0.4020.



This preview shows how white text looks on a background with the Yxy color 42.5208, 0.4979, 0.4020.

# 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

42.5208, 0.4979, 0.4020

### Protanopia

42.6237, 0.4125, 0.4530

### Deuteranopia

42.5041, 0.4514, 0.4425



## Tritanopia

42.5118, 0.4235, 0.3199

# Trichromacy



## Original Color

42.5208, 0.4979, 0.4020

## Protanomaly

41.9641, 0.4439, 0.4341

## Deuteranomaly

42.1330, 0.4687, 0.4273

## Tritanomaly

42.2368, 0.4557, 0.3538

# Monochromacy



## Original Color

42.5208, 0.4979, 0.4020

## Achromatopsia

40.1978, 0.3127, 0.3290

## Achromatomaly

39.9241, 0.3796, 0.3681

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 42.5208, 0.4979, 0.4020 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, 147, 66)` looks like.

```
.text, #text, p{  
    color:rgb(255, 147, 66)  
}
```

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, 147, 66) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 147, 66) }
```

## Border

The CSS property to change the border of an element to Yxy 42.5208, 0.4979, 0.4020 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, 147, 66) }
```

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

```
.border{ border-color:rgb(255, 147, 66) }
```

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

Here you see how a box with a 4 pixel rgb(255, 147, 66) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 147, 66); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 147, 66);  
box-shadow:4px 4px 4px 4px rgb(255, 147,  
66) }
```



# Background

The CSS property to change the background color of an element to Yxy 42.5208, 0.4979, 0.4020 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 147, 66) }
```

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

```
.background{ background-color: rgb(255,  
147, 66) }
```

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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