

# Converting Colors

$Y_{xy}(62.7059, 0.5210, 0.3789)$

Have a look what the booklet for  
Yxy(62.7059, 0.5210, 0.3789)  
contains.

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# Color

**Yxy(46.7444, 0.4722, 0.3988)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF9F57
RGB	255, 159, 87
RGB Percent	100%, 62%, 34%
CMY	0.0002, 0.3764, 0.6588
CMYK	0.00, 0.38, 0.66, 0.00
HSL	26°, 100%, 67%
HSV	26°, 66%, 100%
XYZ	55.3478, 46.7444, 15.1204
YIQ	179.4960, 80.3280, -2.0400

# Conversions

## Conversions Part 2

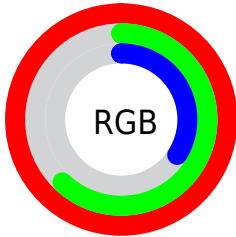
<b>Format</b>	<b>Color</b>
<b>RYB</b>	255, 213, 87
Decimal	16752471
CIELab	74.03, 29.49, 51.65
CIElCh	74, 59.474, 60.275
Yxy	46.7444, 0.4722, 0.3988
Android (android.graphics.Color)	4294942551 (0xFFFF9F57)
YUV	179.4960, -45.6005, 66.2170
Hunter-Lab	68.3699, 24.8547, 34.7466

# Details

The Yxy color **46.7444, 0.4722, 0.3988** is a light color, and the websafe version is hex **FF9966**. The color can be described as light muted orange. A complement of this color would be **43.0801, 0.2127, 0.2357**, and the grayscale version is **45.5760, 0.3127, 0.3290**.

A 20% lighter version of the original color is **71.2172, 0.3982, 0.4055**, and **21.9802, 0.5105, 0.4070** is the 20% darker color. If you saturate the color by 10%, you get **41.6832, 0.5032, 0.4024**, and if you desaturate by 10%, it is **52.5476, 0.4411, 0.3913**.

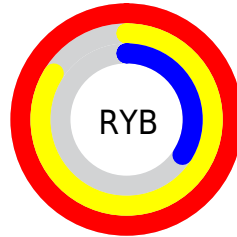
# Distribution



Red (100%)

Green (62%)

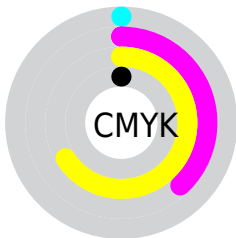
Blue (34%)



Red (100%)

Yellow (84%)

Blue (34%)

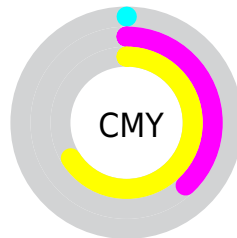


Cyan (0%)

Magenta (38%)

Yellow (66%)

Black (0%)



Cyan (0%)

Magenta (38%)

Yellow (66%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 46.7444, 0.4722, 0.3988 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 46.7444, 0.4722, 0.3988 by changing the saturation by 10% instead.





 46.7444, 0.4722,  
0.3988

 46.7444, 0.4722,  
0.3988

373.7934, 0.3946,  
0.3712


 32.8336, 0.4897,  
0.4028


 85.3320, 0.4452,  
0.3908


 21.9990, 0.5108,  
0.4063


 110.7776, 0.4346,  
0.3872

 13.8562, 0.5361,  
0.4080


 140.8369, 0.4256,  
0.3839

 8.0207, 0.5682,  
0.4069

 175.8943, 0.4177,  
0.3809

 4.1082, 0.6041,  
0.3959

 216.3343, 0.4108,  
0.3781

 1.7343, 0.6376,  
0.3624

262.5412, 0.4048,

 0.4457, 0.7260,

0.3756

0.2740

314.8994, 0.3994,  
0.3733

■ 0.0000, 1.0000,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 46.7444, 0.4722,  
0.3988

■ 46.7444, 0.4722,  
0.3988

■ 41.6832, 0.5032,  
0.4024

■ 52.5476, 0.4411,  
0.3913

■ 37.3200, 0.5319,  
0.4009


■ 59.1188, 0.4117,  
0.3813

■ 33.6156, 0.5559,  
0.3938

■ 66.4913, 0.3849,  
0.3700

■ 32.2633, 0.5647,  
0.3898

■ 74.6939, 0.3610,  
0.3581

 83.7539, 0.3402,  
0.3464

 93.6970, 0.3221,  
0.3353

99.9927, 0.3127,  
0.3290

# Harmonies

## Analogous

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



46.7444, 0.4675, 0.3388



46.7444, 0.4722, 0.3988



46.7444, 0.4303, 0.4537

# Triad

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



46.7444, 0.4722, 0.3988



46.7444, 0.2160, 0.3743



46.7444, 0.2499, 0.2103

# Complementary

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



46.7444, 0.4722, 0.3988



43.0801, 0.2127, 0.2357

# 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.



46.7444, 0.1971, 0.2069



46.7444, 0.4722, 0.3988



46.7444, 0.1789, 0.2882

# Square

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



46.7444, 0.4722, 0.3988



46.7444, 0.2817, 0.4550



46.7444, 0.1733, 0.2311



46.7444, 0.3279, 0.2371



# Rectangle

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



46.7444, 0.4722, 0.3988



46.7444, 0.3855, 0.4778



46.7444, 0.1733, 0.2311



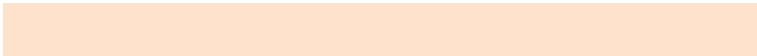
46.7444, 0.2291, 0.2064

# Sweetspot

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



46.7468, 0.4722, 0.3988



79.9427, 0.3484, 0.3512



31.5698, 0.3981, 0.2354



16.5686, 0.3543, 0.3545



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.



46.7468, 0.4722, 0.3988



40.2620, 0.5125, 0.4025



84.8300, 0.4117, 0.4695



19.2680, 0.3284, 0.3392



17.1464, 0.5618, 0.3921



1.8812, 0.5418, 0.4080



# Inverse Universe

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



43.0801, 0.2127, 0.2357



36.2214, 0.1984, 0.2134



18.5491, 0.1876, 0.1307



19.1002, 0.2979, 0.3186



14.7591, 0.1838, 0.1818



1.6540, 0.1889, 0.2001



# Previews

## White Background



This preview shows how the Yxy color 46.7444, 0.4722, 0.3988 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 46.7444, 0.4722, 0.3988 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 46.7444, 0.4722, 0.3988**

## **Background**



This preview shows how black text looks on a background with the Yxy color 46.7444, 0.4722, 0.3988.



This preview shows how white text looks on a background with the Yxy color 46.7444, 0.4722, 0.3988.

# 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

46.7444, 0.4722, 0.3988

### Protanopia

47.1107, 0.3995, 0.4368

### Deuteranopia

47.0654, 0.4375, 0.4284



## Tritanopia

46.6868, 0.4045, 0.3188

# Trichromacy



**Original Color**

46.7444, 0.4722, 0.3988

**Protanomaly**

46.4170, 0.4266, 0.4223

**Deuteranomaly**

47.0206, 0.4507, 0.4179

**Tritanomaly**

46.4520, 0.4322, 0.3502

# Monochromacy



**Original Color**

46.7444, 0.4722, 0.3988

**Achromatopsia**

45.6411, 0.3127, 0.3290

**Achromatomaly**

44.8458, 0.3684, 0.3618

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 46.7444, 0.4722, 0.3988 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, 159, 87)` looks like.

```
.text, #text, p{  
    color:rgb(255, 159, 87)  
}
```

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, 159, 87) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 159, 87) }
```

## Border

The CSS property to change the border of an element to Yxy 46.7444, 0.4722, 0.3988 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, 159, 87) }
```

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

```
.border{ border-color:rgb(255, 159, 87) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 159, 87)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 159, 87); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 159, 87);  
box-shadow:4px 4px 4px 4px rgb(255, 159,  
87) }
```



# Background

The CSS property to change the background color of an element to Yxy 46.7444, 0.4722, 0.3988 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 159, 87) }
```

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

```
.background{ background-color: rgb(255,  
159, 87) }
```

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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