

# Converting Colors

$Y_{xy}(46.9361, 0.4691, 0.3985)$

Have a look what the booklet for  
Yxy(46.9361, 0.4691, 0.3985)  
contains.

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# **Color**

**Yxy(46.9337, 0.4691, 0.3985)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FEA059
RGB	254, 160, 89
RGB Percent	100%, 63%, 35%
CMY	0.0039, 0.3725, 0.6511
CMYK	0.00, 0.37, 0.65, 0.00
HSL	26°, 99%, 67%
HSV	26°, 65%, 100%
XYZ	55.2487, 46.9337, 15.5935
YIQ	180.0120, 78.8150, -2.1530

# Conversions

## Conversions Part 2

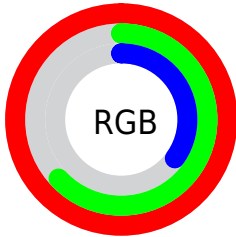
<b>Format</b>	<b>Color</b>
<b>RYB</b>	254, 214, 89
Decimal	16687193
CIELab	74.15, 28.72, 50.79
CIELCh	74, 58.345, 60.515
Yxy	46.9337, 0.4691, 0.3985
Android (android.graphics.Color)	4294877273 (0xFFFEA059)
YUV	180.0120, -44.8689, 64.8875
Hunter-Lab	68.5082, 24.0627, 34.4604

# Details

The Yxy color **46.9337, 0.4691, 0.3985** 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 **43.1399, 0.2138, 0.2369**, and the grayscale version is **45.8629, 0.3127, 0.3290**.

A 20% lighter version of the original color is **71.7840, 0.3964, 0.4045**, and **22.2091, 0.5070, 0.4062** is the 20% darker color. If you saturate the color by 10%, you get **41.8523, 0.5001, 0.4025**, and if you desaturate by 10%, it is **52.7510, 0.4382, 0.3907**.

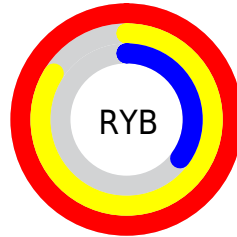
# Distribution



Red (100%)

Green (63%)

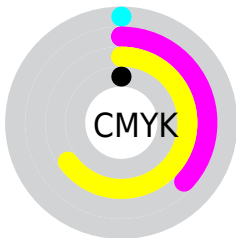
Blue (35%)



Red (100%)

Yellow (84%)

Blue (35%)

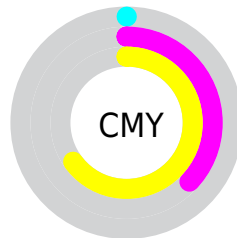


Cyan (0%)

Magenta (37%)

Yellow (65%)

Black (0%)



Cyan (0%)

Magenta (37%)


Yellow (65%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 46.9337, 0.4691, 0.3985 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 46.9337, 0.4691, 0.3985 by changing the saturation by 10% instead.





 46.9337, 0.4691,  
0.3985


 46.9337, 0.4691,  
0.3985

374.5498, 0.3930,  
0.3708


 32.9832, 0.4864,  
0.4027


 85.6146, 0.4425,  
0.3904


 22.1136, 0.5072,  
0.4064


 111.1139, 0.4322,  
0.3867

 13.9404, 0.5323,  
0.4086


 141.2316, 0.4233,  
0.3834

 8.0792, 0.5636,  
0.4079

 176.3521, 0.4156,  
0.3804

 4.1457, 0.6010,  
0.3990

216.8598, 0.4088,  
0.3776

 1.7554, 0.6337,  
0.3663

263.1390, 0.4029,

 0.4591, 0.7188,

0.3751

0.2812

315.5742, 0.3977,  
0.3728

0.0000, 1.0000,  
0.0000

0.0000, 0.0000,  
0.0000

46.9337, 0.4691,  
0.3985

46.9337, 0.4691,  
0.3985

41.8523, 0.5001,  
0.4025

52.7510, 0.4382,  
0.3907

37.4636, 0.5290,  
0.4016


59.3294, 0.4090,  
0.3805

33.7296, 0.5535,  
0.3950

66.7017, 0.3825,  
0.3690

32.0776, 0.5642,  
0.3902

74.8960, 0.3589,  
0.3571

 83.9391, 0.3384,  
0.3454

 93.8563, 0.3206,  
0.3343

99.8124, 0.3121,  
0.3290

# Harmonies

## Analogous

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



46.9337, 0.4647, 0.3394



46.9337, 0.4691, 0.3985



46.9337, 0.4280, 0.4521

# Triad

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



46.9337, 0.4691, 0.3985



46.9337, 0.2174, 0.3727



46.9337, 0.2516, 0.2124

# Complementary

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



46.9337, 0.4691, 0.3985



43.1399, 0.2138, 0.2369

# 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.



46.9337, 0.1994, 0.2089



46.9337, 0.4691, 0.3985



46.9337, 0.1810, 0.2886

# Square

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



46.9337, 0.4691, 0.3985



46.9337, 0.2820, 0.4516



46.9337, 0.1756, 0.2327



46.9337, 0.3283, 0.2390



# Rectangle

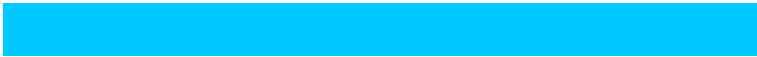
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



46.9337, 0.4691, 0.3985



46.9337, 0.3839, 0.4751



46.9337, 0.1756, 0.2327



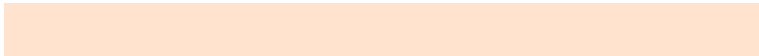
46.9337, 0.2311, 0.2085

# Sweetspot

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



46.9361, 0.4691, 0.3985



80.9011, 0.3463, 0.3501



31.7270, 0.3963, 0.2362



16.7600, 0.3523, 0.3535



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.



46.9361, 0.4691, 0.3985



40.8036, 0.5092, 0.4028



84.2642, 0.4106, 0.4682



19.2726, 0.3283, 0.3393



17.1900, 0.5614, 0.3925



1.8856, 0.5414, 0.4083



# Inverse Universe

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



43.1399, 0.2138, 0.2369



36.5883, 0.1992, 0.2147



18.9265, 0.1893, 0.1335



19.0955, 0.2979, 0.3185



14.6974, 0.1837, 0.1813



1.6482, 0.1888, 0.1996



# Previews

## White Background



This preview shows how the Yxy color 46.9337, 0.4691, 0.3985 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 46.9337, 0.4691, 0.3985 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 46.9337, 0.4691, 0.3985**

## Background



This preview shows how black text looks on a background with the Yxy color 46.9337, 0.4691, 0.3985.



This preview shows how white text looks on a background with the Yxy color 46.9337, 0.4691, 0.3985.

# 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

46.9337, 0.4691, 0.3985

### Protanopia

47.1475, 0.3981, 0.4347

### Deuteranopia

47.1127, 0.4354, 0.4258



## Tritanopia

47.0515, 0.4030, 0.3187

# Trichromacy



**Original Color**

46.9337, 0.4691, 0.3985

**Protanomaly**

46.6837, 0.4234, 0.4218

**Deuteranomaly**

46.8969, 0.4477, 0.4157

**Tritanomaly**

46.8431, 0.4297, 0.3492

# Monochromacy



**Original Color**

46.9337, 0.4691, 0.3985

**Achromatopsia**

45.6411, 0.3127, 0.3290

**Achromatomaly**

45.2591, 0.3672, 0.3617

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 46.9337, 0.4691, 0.3985 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(254, 160, 89)` looks like.

```
.text, #text, p{  
    color:rgb(254, 160, 89)  
}
```

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(254, 160, 89) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(254, 160, 89) }
```

## Border

The CSS property to change the border of an element to Yxy 46.9337, 0.4691, 0.3985 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(254, 160, 89) }
```

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

```
.border{ border-color:rgb(254, 160, 89) }
```

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

Here you see how a box with a 4 pixel `rgb(254, 160, 89)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(254, 160, 89); -webkit-box-  
shadow:4px 4px 4px 4px rgb(254, 160, 89);  
box-shadow:4px 4px 4px 4px rgb(254, 160,  
89) }
```



# Background

The CSS property to change the background color of an element to Yxy 46.9337, 0.4691, 0.3985 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(254, 160, 89) }
```

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

```
.background{ background-color: rgb(254,  
160, 89) }
```

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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