

# Converting Colors

$Y_{xy}(39.7762, 0.5012, 0.3681)$

Have a look what the booklet for  
Yxy(39.7762, 0.5012, 0.3681)  
contains.

<b>Yxy(38.1972, 0.4952, 0.3700)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

# Color

**Yxy(38.1972, 0.4952, 0.3700)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF8358
RGB	255, 131, 88
RGB Percent	100%, 51%, 35%
CMY	0.0000, 0.4863, 0.6548
CMYK	0.00, 0.49, 0.65, 0.00
HSL	15°, 100%, 67%
HSV	15°, 65%, 100%
XYZ	51.1223, 38.1972, 13.9162
YIQ	163.1740, 87.7070, 12.9150

# Conversions

## Conversions Part 2

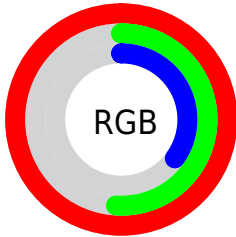
Format	Color
R <sub>Y</sub> B	255, 146, 88
Decimal	16745304
CIE Lab	68.17, 43.84, 44.37
CIE LCh	68, 62.376, 45.343
Yxy	38.1972, 0.4952, 0.3700
Android (android.graphics.Color)	4294935384 (0xFFFF8358)
YUV	163.1740, -37.0608, 80.5314
Hunter-Lab	61.8039, 39.4930, 29.9126

# Details

The Yxy color **38.1972, 0.4952, 0.3700** 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 **56.3974, 0.2225, 0.2750**, and the grayscale version is **36.8596, 0.3127, 0.3290**.

A 20% lighter version of the original color is **58.2419, 0.4120, 0.3781**, and **16.9394, 0.5457, 0.3683** is the 20% darker color. If you saturate the color by 10%, you get **33.2150, 0.5345, 0.3705**, and if you desaturate by 10%, it is **44.2559, 0.4564, 0.3663**.

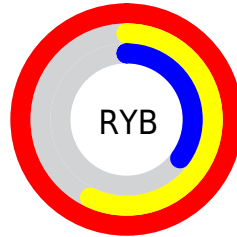
# Distribution



Red (100%)

Green (51%)

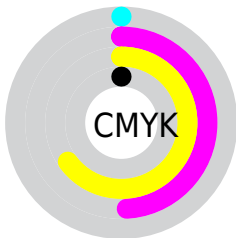
Blue (35%)



Red (100%)

Yellow (57%)

Blue (35%)

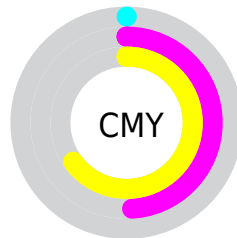


Cyan (0%)

Magenta (49%)

Yellow (65%)

Black (0%)



Cyan (0%)

Magenta (49%)


Yellow (65%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 38.1972, 0.4952, 0.3700 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 38.1972, 0.4952, 0.3700 by changing the saturation by 10% instead.





 38.1972, 0.4952,  
0.3700


 38.1972, 0.4952,  
0.3700


338.4652, 0.4023,  
0.3570

 26.1358, 0.5175,  
0.3703


 72.4103, 0.4618,  
0.3674


 16.9252, 0.5450,  
0.3688


 95.3308, 0.4491,  
0.3658


 10.1812, 0.5791,  
0.3636


 122.6397, 0.4383,  
0.3641

 5.5193, 0.6270,  
0.3542

 154.7215, 0.4291,  
0.3626

 2.5550, 0.6750,  
0.3250

 191.9605, 0.4210,  
0.3610

 0.9041, 0.7317,  
0.2683

234.7412, 0.4140,

 0.0000, 1.0000,

0.3596

0.0000

283.4480, 0.4078,  
0.3583

■ 0.0000, 0.0000,  
0.0000

■ 38.1972, 0.4952,  
0.3700

■ 38.1972, 0.4952,  
0.3700

■ 33.2150, 0.5345,  
0.3705

■ 44.2559, 0.4564,  
0.3663

■ 29.2438, 0.5706,  
0.3667

■ 51.4532, 0.4209,  
0.3605


■ 26.2076, 0.5990,  
0.3587

■ 59.8445, 0.3896,  
0.3536

■ 25.1127, 0.6093,  
0.3544

■ 69.4820, 0.3629,  
0.3464

■ 80.4147, 0.3404,  
0.3393

 92.6888, 0.3216,  
0.3325

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.



38.1972, 0.4614, 0.3064



38.1972, 0.4952, 0.3700



38.1972, 0.4702, 0.4353

# Triad

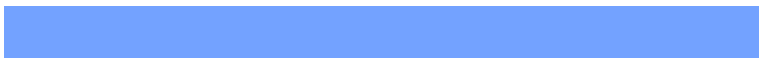
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



38.1972, 0.4952, 0.3700



38.1972, 0.2372, 0.4308



38.1972, 0.2102, 0.1935

# Complementary

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



38.1972, 0.4952, 0.3700



56.3974, 0.2225, 0.2750

# 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.



38.1972, 0.1690, 0.2032



38.1972, 0.4952, 0.3700



38.1972, 0.1805, 0.3272

# Square

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



38.1972, 0.4952, 0.3700



38.1972, 0.3193, 0.4968



38.1972, 0.1587, 0.2457



38.1972, 0.2830, 0.2106



# Rectangle

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



38.1972, 0.4952, 0.3700



38.1972, 0.4293, 0.4741



38.1972, 0.1587, 0.2457



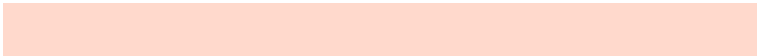
38.1972, 0.1929, 0.1935

# Sweetspot

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



38.1968, 0.4952, 0.3700



75.3098, 0.3501, 0.3425



33.0608, 0.3631, 0.2115



15.4691, 0.3565, 0.3445



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.



38.1968, 0.4952, 0.3700



31.7056, 0.5478, 0.3697



69.6826, 0.4294, 0.4475



18.7468, 0.3288, 0.3352



13.3238, 0.6065, 0.3567



1.4644, 0.5847, 0.3740



# Inverse Universe

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



56.3974, 0.2225, 0.2750



50.7777, 0.2111, 0.2618



25.2000, 0.1961, 0.1646



19.6435, 0.2980, 0.3227



23.1280, 0.2009, 0.2431



2.4280, 0.2039, 0.2541



# Previews

## White Background



This preview shows how the Yxy color 38.1972, 0.4952, 0.3700 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

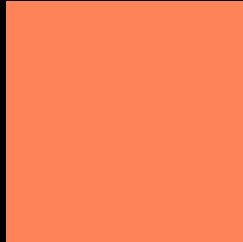
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 38.1972, 0.4952, 0.3700 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 38.1972, 0.4952, 0.3700**

## Background



This preview shows how black text looks on a background with the Yxy color 38.1972, 0.4952, 0.3700.



This preview shows how white text looks on a background with the Yxy color 38.1972, 0.4952, 0.3700.

# 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

38.1972, 0.4952, 0.3700

### Protanopia

38.5221, 0.3860, 0.4194

### Deuteranopia

38.3846, 0.4305, 0.4227



## Tritanopia

38.1880, 0.4475, 0.3212

# Trichromacy



## Original Color

38.1972, 0.4952, 0.3700

## Protanomaly

37.5110, 0.4266, 0.4004

## Deuteranomaly

37.8230, 0.4549, 0.4022

## Tritanomaly

38.0063, 0.4665, 0.3395

# Monochromacy



## Original Color

38.1972, 0.4952, 0.3700

## Achromatopsia

36.6253, 0.3127, 0.3290

## Achromatomaly

35.6466, 0.3750, 0.3492

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 38.1972, 0.4952, 0.3700 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, 131, 88)` looks like.

```
.text, #text, p{  
    color:rgb(255, 131, 88)  
}
```

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, 131, 88) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 131, 88) }
```

## Border

The CSS property to change the border of an element to Yxy 38.1972, 0.4952, 0.3700 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, 131, 88) }
```

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

```
.border{ border-color:rgb(255, 131, 88) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 131, 88)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 131, 88); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 131, 88);  
box-shadow:4px 4px 4px 4px rgb(255, 131,  
88) }
```



# Background

The CSS property to change the background color of an element to Yxy 38.1972, 0.4952, 0.3700 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 131, 88) }
```

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

```
.background{ background-color: rgb(255,  
131, 88) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor