

# Converting Colors

$Y_{xy}(38.3163, 0.4820, 0.3573)$

Have a look what the booklet for  
Yxy(38.3163, 0.4820, 0.3573)  
contains.

<b>Yxy(38.1846, 0.4823, 0.3568)</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(38.1846, 0.4823, 0.3568)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF8266
RGB	255, 130, 102
RGB Percent	100%, 51%, 40%
CMY	0.0001, 0.4901, 0.6000
CMYK	0.00, 0.49, 0.60, 0.00
HSL	11°, 100%, 70%
HSV	11°, 60%, 100%
XYZ	51.6156, 38.1846, 17.2195
YIQ	164.1830, 83.4880, 17.7920

# Conversions

## Conversions Part 2

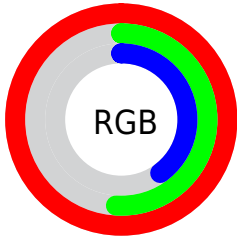
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	255, 136, 102
Decimal	16745062
CIE Lab	68.16, 45.19, 36.94
CIE LCh	68, 58.364, 39.268
Yxy	38.1846, 0.4823, 0.3568
Android (android.graphics.Color)	4294935142 (0xFFFF8266)
YUV	164.1830, -30.6562, 79.6465
Hunter-Lab	61.7937, 40.9601, 26.7338

# Details

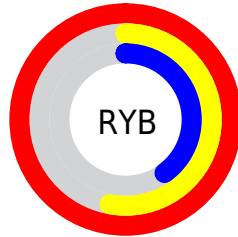
The Yxy color **38.1846, 0.4823, 0.3568** is a light color, and the websafe version is hex **FF9966**. A complement of this color would be **64.9577, 0.2313, 0.2947**, and the grayscale version is **37.3377, 0.3127, 0.3290**.

A 20% lighter version of the original color is **58.2910, 0.3998, 0.3617**, and **16.9116, 0.5313, 0.3550** is the 20% darker color. If you saturate the color by 10%, you get **32.7639, 0.5249, 0.3580**, and if you desaturate by 10%, it is **44.8862, 0.4421, 0.3535**.

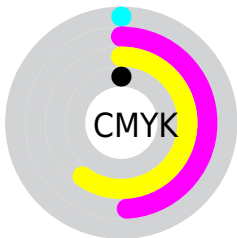
# Distribution



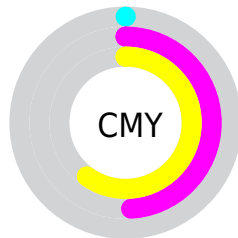
- Red (100%)
- Green (51%)
- Blue (40%)



- Red (100%)
- Yellow (53%)
- Blue (40%)



- Cyan (0%)
- Magenta (49%)
- Yellow (60%)
- Black (0%)




- Cyan (0%)
- Magenta (49%)
- Yellow (60%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 38.1846, 0.4823, 0.3568 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 38.1846, 0.4823, 0.3568 by changing the saturation by 10% instead.





 38.1846, 0.4823,  
0.3568


 38.1846, 0.4823,  
0.3568


338.4112, 0.3951,  
0.3488

 26.1260, 0.5039,  
0.3565


 72.3910, 0.4505,  
0.3555


 16.9179, 0.5310,  
0.3548


 95.3076, 0.4386,  
0.3545

 10.1760, 0.5658,  
0.3501


 122.6123, 0.4285,  
0.3535

 5.5158, 0.6109,  
0.3392

 154.6895, 0.4198,  
0.3525

 2.5530, 0.6797,  
0.3203

191.9235, 0.4124,  
0.3515

 0.9031, 0.7370,  
0.2630

234.6989, 0.4059,

 0.0000, 1.0000,

0.3505

0.0000

283.4000, 0.4001,  
0.3496

0.0000, 0.0000,  
0.0000

38.1846, 0.4823,  
0.3568

38.1846, 0.4823,  
0.3568

32.7639, 0.5249,  
0.3580

44.8862, 0.4421,  
0.3535

28.5352, 0.5659,  
0.3561

52.9380, 0.4065,  
0.3489

25.4075, 0.6000,  
0.3508

62.4112, 0.3762,  
0.3438

23.2664, 0.6233,  
0.3433

73.3705, 0.3508,  
0.3387

23.2660, 0.6233,  
0.3433

85.8763, 0.3299,  
0.3337

99.9859, 0.3127,  
0.3290

99.9963, 0.3127,  
0.3290

# Harmonies

## Analogous

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



38.1846, 0.4389, 0.2968



38.1846, 0.4823, 0.3568



38.1846, 0.4703, 0.4190

# Triad

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



38.1846, 0.4823, 0.3568



38.1846, 0.2568, 0.4406



38.1846, 0.2055, 0.2002

# Complementary

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



38.1846, 0.4823, 0.3568



64.9577, 0.2313, 0.2947

# 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.



38.1846, 0.1720, 0.2157



38.1846, 0.4823, 0.3568



38.1846, 0.1964, 0.3472

# Square

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



38.1846, 0.4823, 0.3568



38.1846, 0.3369, 0.4892



38.1846, 0.1684, 0.2640



38.1846, 0.2690, 0.2115



# Rectangle

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



38.1846, 0.4823, 0.3568



38.1846, 0.4369, 0.4568



38.1846, 0.1684, 0.2640



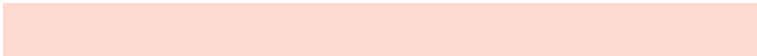
38.1846, 0.1910, 0.2022

# Sweetspot

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



38.1866, 0.4823, 0.3568



75.7565, 0.3463, 0.3376



36.4428, 0.3440, 0.2083



15.4795, 0.3529, 0.3391



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.



38.1866, 0.4823, 0.3568



31.8299, 0.5334, 0.3579



65.3947, 0.4280, 0.4292



18.5251, 0.3290, 0.3334



12.3129, 0.6209, 0.3452



1.3368, 0.6010, 0.3610



# Inverse Universe

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



64.9577, 0.2313, 0.2947



60.4819, 0.2211, 0.2867



32.8233, 0.2093, 0.1968



19.8822, 0.2980, 0.3245



27.6221, 0.2081, 0.2692



2.8297, 0.2102, 0.2767



# Previews

## White Background



This preview shows how the Yxy color 38.1846, 0.4823, 0.3568 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 38.1846, 0.4823, 0.3568 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

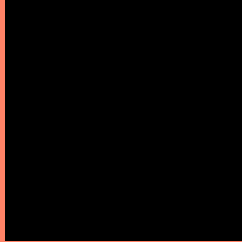
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 38.1846, 0.4823, 0.3568**

## Background



This preview shows how black text looks on a background with the Yxy color 38.1846, 0.4823, 0.3568.



This preview shows how white text looks on a background with the Yxy color 38.1846, 0.4823, 0.3568.

# 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

38.1846, 0.4823, 0.3568

### Protanopia

38.2367, 0.3714, 0.3988

### Deuteranopia

38.3373, 0.4169, 0.4084



## Tritanopia

38.1880, 0.4475, 0.3212

# Trichromacy



**Original Color**

38.1846, 0.4823, 0.3568

**Protanomaly**

37.1956, 0.4110, 0.3823

**Deuteranomaly**

37.5912, 0.4422, 0.3873

**Tritanomaly**

38.1284, 0.4609, 0.3345

# Monochromacy



**Original Color**

38.1846, 0.4823, 0.3568

**Achromatopsia**

37.1238, 0.3127, 0.3290

**Achromatomaly**

36.2499, 0.3704, 0.3438

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 38.1846, 0.4823, 0.3568 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, 130, 102)` looks like.

```
.text, #text, p{  
    color:rgb(255, 130, 102)  
}
```

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, 130, 102) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 130, 102) }
```

## Border

The CSS property to change the border of an element to Yxy 38.1846, 0.4823, 0.3568 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, 130, 102) }
```

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

```
.border{ border-color:rgb(255, 130, 102) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 130, 102)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(255, 130, 102); -webkit-box-shadow:4px 4px 4px 4px rgb(255, 130, 102); box-shadow:4px 4px 4px 4px rgb(255, 130, 102) }
```



# Background

The CSS property to change the background color of an element to Yxy 38.1846, 0.4823, 0.3568 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 130, 102) }
```

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

```
.background{ background-color: rgb(255,  
130, 102) }
```

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