

# Converting Colors

$Y_{xy}(44.5652, 0.4658, 0.3787)$

Have a look what the booklet for  
Yxy(44.5652, 0.4658, 0.3787)  
contains.

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# Color

**Yxy(44.6758, 0.4656, 0.3791)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	FF9866
RGB	255, 152, 102
RGB Percent	100%, 60%, 40%
CMY	0.0000, 0.4039, 0.6000
CMYK	0.00, 0.40, 0.60, 0.00
HSL	20°, 100%, 70%
HSV	20°, 60%, 100%
XYZ	54.8696, 44.6758, 18.3016
YIQ	177.0970, 77.4380, 6.2860

# Conversions

## Conversions Part 2

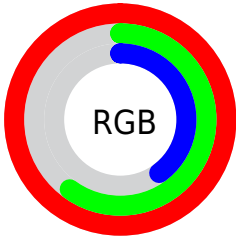
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 176, 102
Decimal	16750694
CIE <sub>Lab</sub>	72.68, 34.09, 42.52
CIE <sub>LCh</sub>	73, 54.499, 51.274
Yxy	44.6758, 0.4656, 0.3791
Android (android.graphics.Color)	4294940774 (0xFFFF9866)
YUV	177.0970, -37.0228, 68.3209
Hunter-Lab	66.8400, 29.5624, 30.5536

# Details

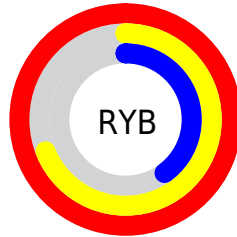
The Yxy color **44.6758, 0.4656, 0.3791** is a light color, and the websafe version is hex **FF9966**. A complement of this color would be **53.7077, 0.2249, 0.2663**, and the grayscale version is **44.1874, 0.3127, 0.3290**.

A 20% lighter version of the original color is **68.2187, 0.3905, 0.3839**, and **20.8407, 0.5061, 0.3843** is the 20% darker color. If you saturate the color by 10%, you get **39.0705, 0.5018, 0.3829**, and if you desaturate by 10%, it is **51.2437, 0.4312, 0.3725**.

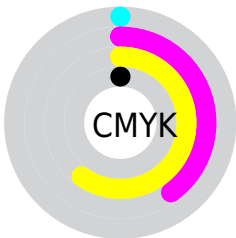
# Distribution



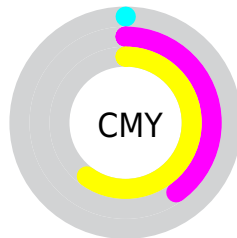
- Red (100%)
- Green (60%)
- Blue (40%)



- Red (100%)
- Yellow (69%)
- Blue (40%)



- Cyan (0%)
- Magenta (40%)
- Yellow (60%)
- Black (0%)




- Cyan (0%)
- Magenta (40%)
- Yellow (60%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 44.6758, 0.4656, 0.3791 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 44.6758, 0.4656, 0.3791 by changing the saturation by 10% instead.





 44.6758, 0.4656,  
0.3791


 44.6758, 0.4656,  
0.3791

365.4590, 0.3894,  
0.3597

 31.2021, 0.4837,  
0.3818


 82.2337, 0.4384,  
0.3736


 20.7528, 0.5060,  
0.3839


 107.0867, 0.4280,  
0.3711

 12.9434, 0.5340,  
0.3844


 136.5017, 0.4192,  
0.3687

 7.3896, 0.5691,  
0.3811

 170.8629, 0.4115,  
0.3666

 3.7069, 0.6242,  
0.3758

210.5549, 0.4049,  
0.3647

 1.5110, 0.6637,  
0.3363

255.9620, 0.3991,

 0.2965, 0.7943,

0.3629

0.2057

307.4685, 0.3940,  
0.3612

■ 0.0000, 1.0000,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 44.6758, 0.4656,  
0.3791

■ 44.6758, 0.4656,  
0.3791

■ 39.0705, 0.5018,  
0.3829

■ 51.2437, 0.4312,  
0.3725

■ 34.3777, 0.5371,  
0.3825

■ 58.8188, 0.4001,  
0.3642

■ 30.5431, 0.5683,  
0.3771

■ 67.4434, 0.3728,  
0.3551

■ 27.4978, 0.5928,  
0.3675

■ 77.1572, 0.3494,  
0.3460

■ 27.4976, 0.5928,  
0.3675

■ 87.9978, 0.3295,  
0.3373

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.



44.6758, 0.4457, 0.3225



44.6758, 0.4656, 0.3791



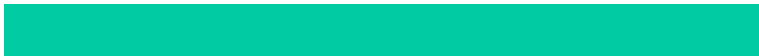
44.6758, 0.4389, 0.4330

# Triad

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



44.6758, 0.4656, 0.3791



44.6758, 0.2387, 0.3962



44.6758, 0.2363, 0.2137

# Complementary

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



44.6758, 0.4656, 0.3791



53.7077, 0.2249, 0.2663

# 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.



44.6758, 0.1942, 0.2182



44.6758, 0.4656, 0.3791



44.6758, 0.1944, 0.3137

# Square

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



44.6758, 0.4656, 0.3791



44.6758, 0.3064, 0.4591



44.6758, 0.1799, 0.2505



44.6758, 0.3036, 0.2328



# Rectangle

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



44.6758, 0.4656, 0.3791



44.6758, 0.4019, 0.4602



44.6758, 0.1799, 0.2505



44.6758, 0.2192, 0.2124

# Sweetspot

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



44.6761, 0.4656, 0.3791



79.2335, 0.3452, 0.3442



35.2460, 0.3691, 0.2274



16.3157, 0.3514, 0.3468



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.



44.6761, 0.4656, 0.3791



38.0603, 0.5090, 0.3832



77.1303, 0.4135, 0.4486



18.9564, 0.3286, 0.3368



14.6087, 0.5899, 0.3698



1.6119, 0.5679, 0.3873

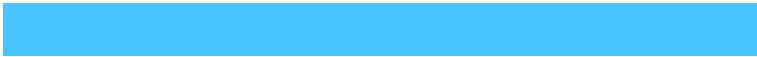


# Inverse Universe

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



53.7077, 0.2249, 0.2663



47.6050, 0.2121, 0.2512



26.0237, 0.2027, 0.1673



19.4221, 0.2980, 0.3210



19.4074, 0.1940, 0.2182



2.0890, 0.1979, 0.2323



# Previews

## White Background



This preview shows how the Yxy color 44.6758, 0.4656, 0.3791 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

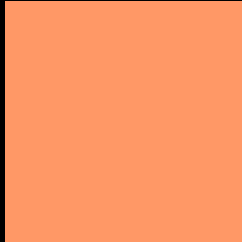
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 44.6758, 0.4656, 0.3791 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

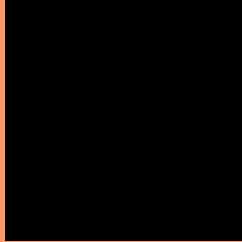
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 44.6758, 0.4656, 0.3791**

## Background



This preview shows how black text looks on a background with the Yxy color 44.6758, 0.4656, 0.3791.



This preview shows how white text looks on a background with the Yxy color 44.6758, 0.4656, 0.3791.

# 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

44.6758, 0.4656, 0.3791

### Protanopia

45.0122, 0.3833, 0.4153

### Deuteranopia

44.5367, 0.4221, 0.4132



## Tritanopia

44.5618, 0.4132, 0.3188

# Trichromacy



## Original Color

44.6758, 0.4656, 0.3791



## Protanomaly

44.2104, 0.4136, 0.4018



## Deuteranomaly

44.0842, 0.4385, 0.4002



## Tritanomaly

44.5610, 0.4335, 0.3418

# Monochromacy



## Original Color

44.6758, 0.4656, 0.3791



## Achromatopsia

43.9657, 0.3127, 0.3290



## Achromatomaly

43.1864, 0.3642, 0.3520

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 44.6758, 0.4656, 0.3791 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, 152, 102)` looks like.

```
.text, #text, p{  
    color:rgb(255, 152, 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, 152, 102) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 152, 102) }
```

## Border

The CSS property to change the border of an element to Yxy 44.6758, 0.4656, 0.3791 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, 152, 102) }
```

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

```
.border{ border-color:rgb(255, 152, 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, 152, 102)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 152, 102); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 152, 102);  
box-shadow:4px 4px 4px 4px rgb(255, 152,  
102) }
```



# Background

The CSS property to change the background color of an element to Yxy 44.6758, 0.4656, 0.3791 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 152, 102) }
```

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

```
.background{ background-color: rgb(255,  
152, 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](#).

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