

# Converting Colors

$Y_{xy}(45.8177, 0.4783, 0.4005)$

Have a look what the booklet for  
Yxy(45.8177, 0.4783, 0.4005)  
contains.

<b>Yxy(45.9831, 0.4776, 0.4006)</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(45.9831, 0.4776, 0.4006)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF9D52
RGB	255, 157, 82
RGB Percent	100%, 62%, 32%
CMY	0.0000, 0.3843, 0.6782
CMYK	0.00, 0.38, 0.68, 0.00
HSL	26°, 100%, 66%
HSV	26°, 68%, 100%
XYZ	54.8216, 45.9831, 13.9809
YIQ	177.7520, 82.4830, -2.5490

# Conversions

## Conversions Part 2

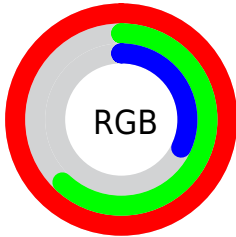
Format	Color
<a href="#">RYB</a>	<a href="#">255, 214, 82</a>
Decimal	<a href="#">16751954</a>
CIELab	<a href="#">73.53, 30.28, 53.47</a>
CIELCh	<a href="#">74, 61.449, 60.477</a>
Yxy	<a href="#">45.9831, 0.4776, 0.4006</a>
Android (android.graphics.Color)	<a href="#">4294942034 (0xFFFF9D52)</a>
YUV	<a href="#">177.7520, -47.2057, 67.7465</a>
Hunter-Lab	<a href="#">67.8108, 25.6391, 35.2435</a>

# Details

The Yxy color **45.9831, 0.4776, 0.4006** 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 **41.6818, 0.2101, 0.2313**, and the grayscale version is **44.6088, 0.3127, 0.3290**.

A 20% lighter version of the original color is **70.0682, 0.4026, 0.4083**, and **21.5395, 0.5164, 0.4076** is the 20% darker color. If you saturate the color by 10%, you get **41.0625, 0.5081, 0.4034**, and if you desaturate by 10%, it is **51.6309, 0.4466, 0.3937**.

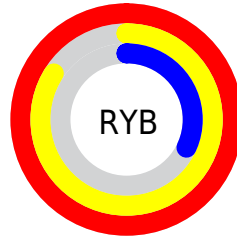
# Distribution



Red (100%)

Green (62%)

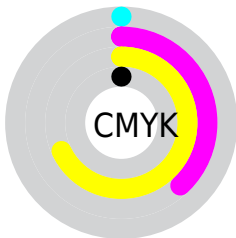
Blue (32%)



Red (100%)

Yellow (84%)

Blue (32%)

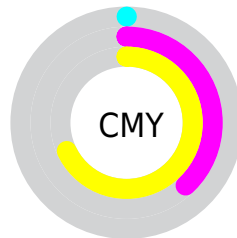


Cyan (0%)

Magenta (38%)

Yellow (68%)

Black (0%)



Cyan (0%)

Magenta (38%)


Yellow (68%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 45.9831, 0.4776, 0.4006 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 45.9831, 0.4776, 0.4006 by changing the saturation by 10% instead.





 45.9831, 0.4776,  
0.4006


 45.9831, 0.4776,  
0.4006


370.7407, 0.3975,  
0.3727

 32.2325, 0.4956,  
0.4045


 84.1937, 0.4498,  
0.3927


 21.5391, 0.5170,  
0.4075


 109.4225, 0.4389,  
0.3891


 13.5187, 0.5426,  
0.4085

 139.2461, 0.4295,  
0.3857

 7.7867, 0.5766,  
0.4075

 174.0490, 0.4214,  
0.3826

 3.9587, 0.6082,  
0.3918

 214.2155, 0.4143,  
0.3798

 1.6505, 0.6432,  
0.3568

260.1300, 0.4080,

 0.3913, 0.7446,

0.3772

0.2554

312.1769, 0.4025,  
0.3749

0.0000, 1.0000,  
0.0000

0.0000, 0.0000,  
0.0000

45.9831, 0.4776,  
0.4006

45.9831, 0.4776,  
0.4006

41.0625, 0.5081,  
0.4034

51.6309, 0.4466,  
0.3937

36.8250, 0.5358,  
0.4009

58.0322, 0.4169,  
0.3840

33.2292, 0.5588,  
0.3930

65.2201, 0.3897,  
0.3727

32.5208, 0.5634,  
0.3909

73.2234, 0.3653,  
0.3607

82.0692, 0.3439,  
0.3489

91.7833, 0.3254,  
0.3375

99.9997, 0.3127,  
0.3290

# Harmonies

## Analogous

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



45.9831, 0.4736, 0.3388



45.9831, 0.4776, 0.4006



45.9831, 0.4334, 0.4578

# Triad

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



45.9831, 0.4776, 0.4006



45.9831, 0.2120, 0.3753



45.9831, 0.2480, 0.2067

# Complementary

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



45.9831, 0.4776, 0.4006



41.6818, 0.2101, 0.2313

# 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.



45.9831, 0.1936, 0.2029



45.9831, 0.4776, 0.4006



45.9831, 0.1744, 0.2856

# Square

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



45.9831, 0.4776, 0.4006



45.9831, 0.2796, 0.4602



45.9831, 0.1690, 0.2272



45.9831, 0.3288, 0.2344



# Rectangle

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



45.9831, 0.4776, 0.4006



45.9831, 0.3868, 0.4834



45.9831, 0.1690, 0.2272



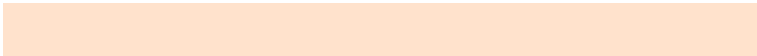
45.9831, 0.2266, 0.2026

# Sweetspot

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



45.9855, 0.4776, 0.4006



80.0673, 0.3483, 0.3514



30.6015, 0.4056, 0.2364



16.5983, 0.3542, 0.3548



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.



45.9855, 0.4776, 0.4006



39.6424, 0.5173, 0.4032



86.2525, 0.4121, 0.4742



19.2818, 0.3283, 0.3393



17.2768, 0.5605, 0.3931



1.8945, 0.5406, 0.4089



# Inverse Universe

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



41.6818, 0.2101, 0.2313



34.9471, 0.1961, 0.2088



16.9495, 0.1835, 0.1220



19.0862, 0.2979, 0.3184



14.5762, 0.1834, 0.1802



1.6366, 0.1885, 0.1987



# Previews

## White Background



This preview shows how the Yxy color 45.9831, 0.4776, 0.4006 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 45.9831, 0.4776, 0.4006 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 45.9831, 0.4776, 0.4006**

## **Background**



This preview shows how black text looks on a background with the Yxy color 45.9831, 0.4776, 0.4006.



This preview shows how white text looks on a background with the Yxy color 45.9831, 0.4776, 0.4006.

# 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

45.9831, 0.4776, 0.4006

### Protanopia

46.0653, 0.4034, 0.4404

### Deuteranopia

46.0627, 0.4415, 0.4311



## Tritanopia

45.9664, 0.4073, 0.3188

# Trichromacy



**Original Color**

45.9831, 0.4776, 0.4006

**Protanomaly**

45.4088, 0.4308, 0.4254

**Deuteranomaly**

46.0348, 0.4549, 0.4204

**Tritanomaly**

45.7084, 0.4363, 0.3512

# Monochromacy



**Original Color**

45.9831, 0.4776, 0.4006

**Achromatopsia**

44.5201, 0.3127, 0.3290

**Achromatomaly**

43.8544, 0.3710, 0.3632

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 45.9831, 0.4776, 0.4006 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, 157, 82)` looks like.

```
.text, #text, p{  
    color:rgb(255, 157, 82)  
}
```

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, 157, 82) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 157, 82) }
```

## Border

The CSS property to change the border of an element to Yxy 45.9831, 0.4776, 0.4006 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, 157, 82) }
```

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

```
.border{ border-color:rgb(255, 157, 82) }
```

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

Here you see how a box with a 4 pixel rgb(255, 157, 82) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 157, 82); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 157, 82);  
box-shadow:4px 4px 4px 4px rgb(255, 157,  
82) }
```



# Background

The CSS property to change the background color of an element to Yxy 45.9831, 0.4776, 0.4006 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 157, 82) }
```

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

```
.background{ background-color: rgb(255,  
157, 82) }
```

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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