

# Converting Colors

$Yxy(52.0417, 0.4893, 0.4497)$

Have a look what the booklet for  
Yxy(52.0417, 0.4893, 0.4497)  
contains.

<b>Yxy(51.9199, 0.4897, 0.4494)</b> .....	3
<b>Conversions</b> .....	4
<b>Details</b> .....	6
<b>Harmonies</b> .....	12
<b>Previews</b> .....	22
<b>Color Blindness Simulation</b> .....	25
<b>CSS Examples</b> .....	28

# **Color**

**Yxy(51.9199, 0.4897, 0.4494)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFAF00
RGB	255, 175, 0
RGB Percent	100%, 69%, 0%
CMY	0.0000, 0.3137, 1.0000
CMYK	0.00, 0.31, 1.00, 0.00
HSL	41°, 100%, 50%
HSV	41°, 100%, 100%
XYZ	56.5758, 51.9199, 7.0359
YIQ	178.9700, 103.8550, -37.4650

# Conversions

## Conversions Part 2

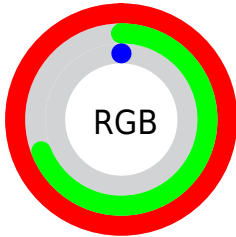
Format	Color
<b>R<sub>YB</sub></b>	117, 255, 0
Decimal	16756480
CIE Lab	77.23, 18.73, 80.49
CIE LCh	77, 82.640, 76.899
Yxy	51.9199, 0.4897, 0.4494
Android (android.graphics.Color)	4294946560 (0xFFFFAF00)
YUV	178.9700, -88.2322, 66.6783
Hunter-Lab	72.0555, 14.0559, 44.6494

# Details

The Yxy color **51.9199, 0.4897, 0.4494** is a dark color, and the websafe version is hex **FF9900**. The color can be described as middle saturated orange. A complement of this color would be **12.9579, 0.1611, 0.0998**, and the grayscale version is **45.4989, 0.3127, 0.3290**.

A 20% lighter version of the original color is **78.4477, 0.4211, 0.4651**, and **25.3724, 0.5006, 0.4407** is the 20% darker color. If you saturate the color by 10%, you get **51.9185, 0.4897, 0.4494**, and if you desaturate by 10%, it is **55.1980, 0.4780, 0.4522**.

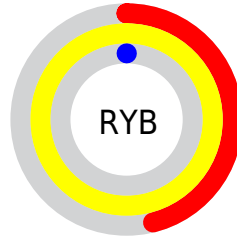
# Distribution



Red (100%)

Green (69%)

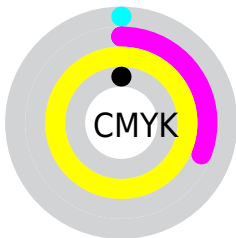
Blue (0%)



Red (46%)

Yellow (100%)

Blue (0%)

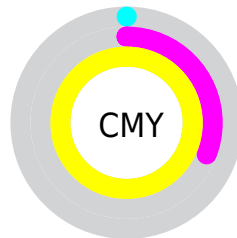


Cyan (0%)

Magenta (31%)

Yellow (100%)

Black (0%)



Cyan (0%)

Magenta (31%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 51.9199, 0.4897, 0.4494 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 51.9199, 0.4897, 0.4494 by changing the saturation by 10% instead.





 51.9199, 0.4897,  
0.4494

 51.9199, 0.4897,  
0.4494


394.1273, 0.4128,  
0.4048


 36.9412, 0.5034,  
0.4547


 93.0131, 0.4657,  
0.4376

 25.1620, 0.5179,  
0.4583


 119.8964, 0.4554,  
0.4319


 16.1978, 0.5361,  
0.4620


 151.5167, 0.4463,  
0.4264

 9.6642, 0.5460,  
0.4540

 188.2585, 0.4381,  
0.4214

 5.1769, 0.5589,  
0.4411

 230.5060, 0.4307,  
0.4167

 2.3514, 0.5788,  
0.4212

 278.6437, 0.4241,

 0.8007, 0.6147,

0.4124

0.3853

333.0560, 0.4182,  
0.4084

■ 0.0000, 1.0000,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 51.9199, 0.4897,  
0.4494

■ 51.9199, 0.4897,  
0.4494


■ 51.9185, 0.4897,  
0.4494

■ 55.1980, 0.4780,  
0.4522

■ 58.7593, 0.4633,  
0.4502

■ 62.6344, 0.4457,  
0.4432

■ 66.8439, 0.4261,  
0.4318

 71.4053, 0.4054,  
0.4171

 76.3345, 0.3847,  
0.4003

 81.6457, 0.3647,  
0.3823

 87.3522, 0.3459,  
0.3640

 93.4664, 0.3285,  
0.3461

# Harmonies

## Analogous

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



51.9199, 0.5270, 0.3738



51.9199, 0.4897, 0.4494



51.9199, 0.4087, 0.5174

# Triad

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



51.9199, 0.4897, 0.4494



51.9199, 0.1566, 0.3179



51.9199, 0.2817, 0.1948

# Complementary

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



51.9199, 0.4897, 0.4494



12.9579, 0.1611, 0.0998

# 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.



51.9199, 0.1969, 0.1740



51.9199, 0.4897, 0.4494



51.9199, 0.1360, 0.2254

# Square

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



51.9199, 0.4897, 0.4494



51.9199, 0.2173, 0.4470



51.9199, 0.1497, 0.1817



51.9199, 0.3952, 0.2404



# Rectangle

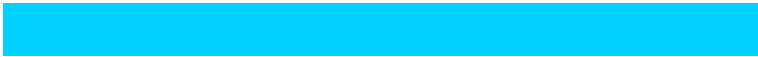
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



51.9199, 0.4897, 0.4494



51.9199, 0.3437, 0.5369



51.9199, 0.1497, 0.1817



51.9199, 0.2493, 0.1849

# Sweetspot

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



51.9185, 0.4897, 0.4494



81.6457, 0.3647, 0.3823



21.8503, 0.5752, 0.2942



16.9861, 0.3731, 0.3899



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.



51.9185, 0.4897, 0.4494



84.9662, 0.3866, 0.5312



20.0728, 0.3277, 0.3453



27.4079, 0.4882, 0.4506



2.8644, 0.4784, 0.4584

# Inverse Universe

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



12.9579, 0.1611, 0.0998



7.8184, 0.1573, 0.0640



18.3076, 0.2979, 0.3122



7.0046, 0.1619, 0.1026



0.8677, 0.1680, 0.1247

# Previews

## White Background



This preview shows how the Yxy color 51.9199, 0.4897, 0.4494 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 51.9199, 0.4897, 0.4494 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 51.9199, 0.4897, 0.4494**

## Background



This preview shows how black text looks on a background with the Yxy color 51.9199, 0.4897, 0.4494.



This preview shows how white text looks on a background with the Yxy color 51.9199, 0.4897, 0.4494.



# 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

51.9199, 0.4897, 0.4494

### Protanopia

52.3356, 0.4388, 0.4859

### Deuteranopia

51.9250, 0.4733, 0.4624



## Tritanopia

52.0718, 0.3855, 0.3187

# Trichromacy



## Original Color

51.9199, 0.4897, 0.4494

## Protanomaly

51.9627, 0.4573, 0.4729

## Deuteranomaly

52.0144, 0.4793, 0.4576

## Tritanomaly

51.2017, 0.4432, 0.3873

# Monochromacy



## Original Color

51.9199, 0.4897, 0.4494

## Achromatopsia

45.0786, 0.3127, 0.3290

## Achromatomaly

46.3211, 0.3937, 0.4081

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 51.9199, 0.4897, 0.4494 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, 175, 0)` looks like.

```
.text, #text, p{  
    color:rgb(255, 175, 0)  
}
```

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, 175, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 175, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 51.9199, 0.4897, 0.4494 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, 175, 0) }
```

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

```
.border{ border-color:rgb(255, 175, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 175, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 175, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 175, 0);  
box-shadow:4px 4px 4px 4px rgb(255, 175,  
0) }
```

# Background

The CSS property to change the background color of an element to Yxy 51.9199, 0.4897, 0.4494 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 175, 0) }
```

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

```
.background{ background-color: rgb(255,  
175, 0) }
```

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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