

# Converting Colors

$Yxy(56.7007, 0.4774, 0.4591)$

Have a look what the booklet for  
Yxy(56.7007, 0.4774, 0.4591)  
contains.

<b>Yxy(56.8006, 0.4772, 0.4593)</b> .....	3
<b>Conversions</b> .....	4
<b>Details</b> .....	6
<b>Harmonies</b> .....	12
<b>Previews</b> .....	24
<b>Color Blindness Simulation</b> .....	27
<b>CSS Examples</b> .....	30

# Color

**Yxy(56.8006, 0.4772, 0.4593)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFBB00
RGB	255, 187, 0
RGB Percent	100%, 73%, 0%
CMY	0.0000, 0.2667, 1.0000
CMYK	0.00, 0.27, 1.00, 0.00
HSL	44°, 100%, 50%
HSV	44°, 100%, 100%
XYZ	59.0143, 56.8006, 7.8529
YIQ	186.0140, 100.5550, -43.7410

# Conversions

## Conversions Part 2

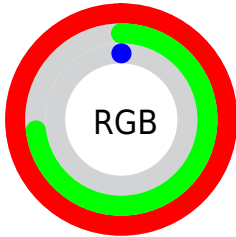
Format	Color
R <sub>Y</sub> B	93, 255, 0
Decimal	16759552
CIE Lab	80.07, 12.47, 82.38
CIE LCh	80, 83.322, 81.391
Yxy	56.8006, 0.4772, 0.4593
Android (android.graphics.Color)	4294949632 (0xFFFFBB00)
YUV	186.0140, -91.7049, 60.5007
Hunter-Lab	75.3662, 7.8807, 46.5785

# Details

The Yxy color **56.8006, 0.4772, 0.4593** is a dark color, and the websafe version is hex **FFCC00**. The color can be described as middle saturated orange. A complement of this color would be **11.3554, 0.1581, 0.0893**, and the grayscale version is **49.5933, 0.3127, 0.3290**.

A 20% lighter version of the original color is **85.9857, 0.4120, 0.4733**, and **28.2567, 0.4852, 0.4530** is the 20% darker color. If you saturate the color by 10%, you get **56.7997, 0.4772, 0.4593**, and if you desaturate by 10%, it is **59.8273, 0.4674, 0.4609**.

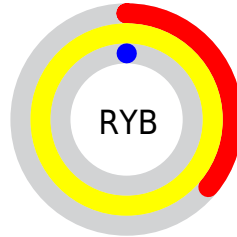
# Distribution



Red (100%)

Green (73%)

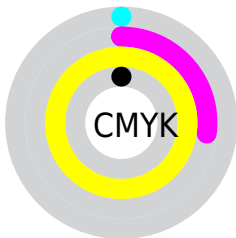
Blue (0%)



Red (36%)

Yellow (100%)

Blue (0%)

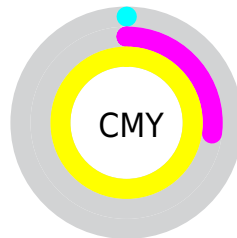


Cyan (0%)

Magenta (27%)

Yellow (100%)

Black (0%)



Cyan (0%)

Magenta (27%)


Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 56.8006, 0.4772, 0.4593 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 56.8006, 0.4772, 0.4593 by changing the saturation by 10% instead.




 56.8006, 0.4772,  
0.4593


 56.8006, 0.4772,  
0.4593


412.7017, 0.4076,  
0.4094


 40.8452, 0.4892,  
0.4661


 100.1742, 0.4558,  
0.4454

 28.1981, 0.5017,  
0.4719


 128.3611, 0.4466,  
0.4389

 18.4751, 0.5157,  
0.4771


 161.3940, 0.4383,  
0.4329


 11.2916, 0.5250,  
0.4750

 199.6573, 0.4308,  
0.4274

 6.2633, 0.5329,  
0.4671

 243.5353, 0.4241,  
0.4223

 3.0058, 0.5451,  
0.4549

 293.4124, 0.4181,

 1.1348, 0.5659,

0.4176

0.4341

349.6731, 0.4126,  
0.4133

0.0075, 0.9766,  
0.0234

0.0000, 0.0000,  
0.0000

56.8006, 0.4772,  
0.4593

56.8006, 0.4772,  
0.4593


56.7997, 0.4772,  
0.4593


59.8273, 0.4674,  
0.4609


63.0865, 0.4548,  
0.4581


66.6092, 0.4392,  
0.4502


70.4146, 0.4214,  
0.4381

 74.5193, 0.4023,  
0.4225

 78.9380, 0.3829,  
0.4047

 83.6838, 0.3637,  
0.3857

 88.7690, 0.3454,  
0.3663

 94.2049, 0.3284,  
0.3473

# Harmonies

## Analogous

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



56.8006, 0.5215, 0.3848



56.8006, 0.4772, 0.4593



56.8006, 0.3939, 0.5209

# Triad

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



56.8006, 0.4772, 0.4593



56.8006, 0.1539, 0.3017



56.8006, 0.2980, 0.2023

# Complementary

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



56.8006, 0.4772, 0.4593



11.3554, 0.1581, 0.0893

# 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.



56.8006, 0.2091, 0.1778



56.8006, 0.4772, 0.4593



56.8006, 0.1388, 0.2184

# Square

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



56.8006, 0.4772, 0.4593



56.8006, 0.2079, 0.4256



56.8006, 0.1570, 0.1811



56.8006, 0.4104, 0.2505



# Rectangle

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



56.8006, 0.4772, 0.4593



56.8006, 0.3291, 0.5313



56.8006, 0.1570, 0.1811



56.8006, 0.2645, 0.1913

# Sweetspot

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



56.8008, 0.4772, 0.4593



83.6820, 0.3637, 0.3857



21.7314, 0.5868, 0.3006



17.4744, 0.3717, 0.3938



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.



56.8008, 0.4772, 0.4593



56.7997, 0.4772, 0.4593



83.7653, 0.3807, 0.5359



20.2229, 0.3276, 0.3463



29.9377, 0.4760, 0.4602



3.0947, 0.4681, 0.4666



# Inverse Universe

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



11.3554, 0.1581, 0.0893



11.3545, 0.1581, 0.0893



8.0397, 0.1599, 0.0655



18.1655, 0.2979, 0.3110



6.1404, 0.1589, 0.0919



0.7682, 0.1648, 0.1131



# Previews

## White Background



This preview shows how the Yxy color 56.8006, 0.4772, 0.4593 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 56.8006, 0.4772, 0.4593 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 56.8006, 0.4772, 0.4593**

## Background



This preview shows how black text looks on a background with the Yxy color 56.8006, 0.4772, 0.4593.



This preview shows how white text looks on a background with the Yxy color 56.8006, 0.4772, 0.4593.

# 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

56.8006, 0.4772, 0.4593

### Protanopia

56.7286, 0.4392, 0.4862

### Deuteranopia

57.0906, 0.4729, 0.4627



## Tritanopia

56.7749, 0.3712, 0.3177

# Trichromacy



**Original Color**

56.8006, 0.4772, 0.4593

**Protanomaly**

56.7143, 0.4526, 0.4768

**Deuteranomaly**

56.8491, 0.4746, 0.4613

**Tritanomaly**

55.6638, 0.4303, 0.3917

# Monochromacy



**Original Color**

56.8006, 0.4772, 0.4593

**Achromatopsia**

49.1021, 0.3127, 0.3290

**Achromatomaly**

50.2747, 0.3900, 0.4111

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 56.8006, 0.4772, 0.4593 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, 187, 0)` looks like.

```
.text, #text, p{  
    color:rgb(255, 187, 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, 187, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 187, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 56.8006, 0.4772, 0.4593 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, 187, 0) }
```

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

```
.border{ border-color:rgb(255, 187, 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, 187, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 187, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 187, 0);  
box-shadow:4px 4px 4px 4px rgb(255, 187,  
0) }
```



# Background

The CSS property to change the background color of an element to Yxy 56.8006, 0.4772, 0.4593 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 187, 0) }
```

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

```
.background{ background-color: rgb(255,  
187, 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](#).

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