

# Converting Colors

$Y_{xy}(79.3920, 0.4780, 0.4500)$

Have a look what the booklet for  
Yxy(79.3920, 0.4780, 0.4500)  
contains.

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# Color

**Yxy(70.0008, 0.4459, 0.4737)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFD726
RGB	255, 215, 38
RGB Percent	100%, 84%, 15%
CMY	0.0000, 0.1568, 0.8505
CMYK	0.00, 0.16, 0.85, 0.00
HSL	49°, 100%, 57%
HSV	49°, 85%, 100%
XYZ	65.8927, 70.0008, 11.8811
YIQ	206.7820, 80.6570, -46.5670

# Conversions

## Conversions Part 2

Format	Color
<b>RYB</b>	87, 255, 38
Decimal	16766758
CIELab	87.00, -1.43, 82.01
CIELCh	87, 82.022, 90.999
Yxy	70.0008, 0.4459, 0.4737
Android (android.graphics.Color)	4294956838 (0xFFFFD726)
YUV	206.7820, -83.2095, 42.2872
Hunter-Lab	83.6665, -5.8363, 50.1470

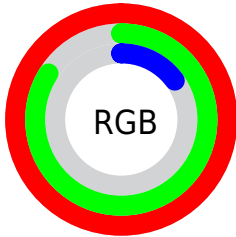
# Details

The Yxy color **70.0008, 0.4459, 0.4737** is a light color, and the websafe version is hex **FFCC00**.

The color can be described as light washed yellow. A complement of this color would be **13.0985, 0.1652, 0.1002**, and the grayscale version is **62.7658, 0.3127, 0.3290**.

A 20% lighter version of the original color is **93.7593, 0.3973, 0.4689**, and **36.8272, 0.4521, 0.4793** is the 20% darker color. If you saturate the color by 10%, you get **67.5304, 0.4538, 0.4757**, and if you desaturate by 10%, it is **72.6583, 0.4350, 0.4670**.

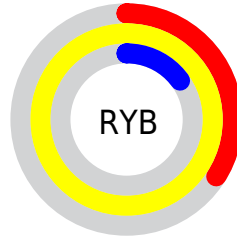
# Distribution



Red (100%)

Green (84%)

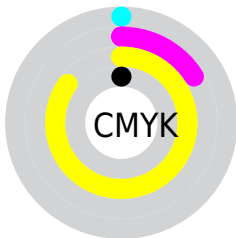
Blue (15%)



Red (34%)

Yellow (100%)

Blue (15%)

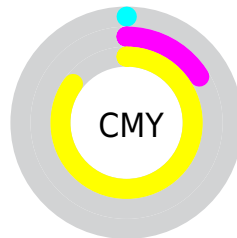


Cyan (0%)

Magenta (16%)

Yellow (85%)

Black (0%)



Cyan (0%)

Magenta (16%)


Yellow (85%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 70.0008, 0.4459, 0.4737 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 70.0008, 0.4459, 0.4737 by changing the saturation by 10% instead.




 70.0008, 0.4459,  
0.4737

 70.0008, 0.4459,  
0.4737


460.5528, 0.3921,  
0.4147

 51.5272, 0.4549,  
0.4837


 119.2099, 0.4297,  
0.4558

 36.6283, 0.4640,  
0.4941


 150.7142, 0.4227,  
0.4480

 24.9199, 0.4727,  
0.5041


 187.3308, 0.4163,  
0.4410

 16.0174, 0.4833,  
0.5167

 229.4441, 0.4105,  
0.4347

 9.5364, 0.4826,  
0.5174

 277.4386, 0.4052,  
0.4289

 5.0927, 0.4815,  
0.5185

 331.6986, 0.4004,

 2.3018, 0.4797,

0.4237

0.5203

392.6086, 0.3961,  
0.4190

■ 0.7746, 0.4752,  
0.5248

■ 0.0000, 0.0000,  
0.0000

■ 70.0008, 0.4459,  
0.4737

■ 70.0008, 0.4459,  
0.4737

■ 67.5304, 0.4538,  
0.4757

■ 72.6583, 0.4350,  
0.4670

■ 66.3599, 0.4570,  
0.4754


■ 75.5146, 0.4213,  
0.4557

■ 78.5892, 0.4056,  
0.4405

■ 81.8965, 0.3885,  
0.4223

 85.4491, 0.3709,  
0.4021

 89.2587, 0.3533,  
0.3810

 93.3359, 0.3364,  
0.3598

 97.6907, 0.3204,  
0.3391

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.



70.0008, 0.4998, 0.4065



70.0008, 0.4459, 0.4737



70.0008, 0.3622, 0.5144

# Triad

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



70.0008, 0.4459, 0.4737



70.0008, 0.1560, 0.2753



70.0008, 0.3321, 0.2229

# Complementary

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



70.0008, 0.4459, 0.4737



13.0985, 0.1652, 0.1002

# 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.



70.0008, 0.2396, 0.1919



70.0008, 0.4459, 0.4737



70.0008, 0.1516, 0.2114

# Square

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



70.0008, 0.4459, 0.4737



70.0008, 0.1958, 0.3802



70.0008, 0.1790, 0.1865



70.0008, 0.4338, 0.2745



# Rectangle

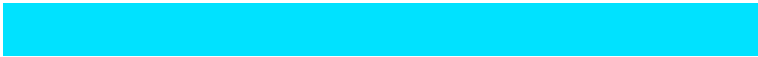
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



70.0008, 0.4459, 0.4737



70.0008, 0.3007, 0.5036



70.0008, 0.1790, 0.1865



70.0008, 0.2985, 0.2100

# Sweetspot

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



70.0036, 0.4459, 0.4737



88.8869, 0.3550, 0.3830



23.2549, 0.5658, 0.3029



18.7385, 0.3610, 0.3904



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.



70.0036, 0.4459, 0.4737



66.3599, 0.4570, 0.4754



82.5993, 0.3706, 0.5340



20.4875, 0.3274, 0.3482



34.8796, 0.4562, 0.4760



3.5371, 0.4512, 0.4799



# Inverse Universe

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



13.0985, 0.1652, 0.1002



9.2550, 0.1541, 0.0748



11.5076, 0.1854, 0.0876



17.9195, 0.2979, 0.3090



4.9905, 0.1547, 0.0769



0.6244, 0.1598, 0.0953



# Previews

## White Background



This preview shows how the Yxy color 70.0008, 0.4459, 0.4737 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

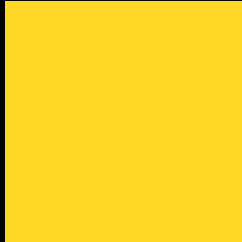
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 70.0008, 0.4459, 0.4737 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 70.0008, 0.4459, 0.4737**

## **Background**



This preview shows how black text looks on a background with the Yxy color 70.0008, 0.4459, 0.4737.



This preview shows how white text looks on a background with the Yxy color 70.0008, 0.4459, 0.4737.

# 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

70.0008, 0.4459, 0.4737

### Protanopia

70.2220, 0.4348, 0.4819

### Deuteranopia

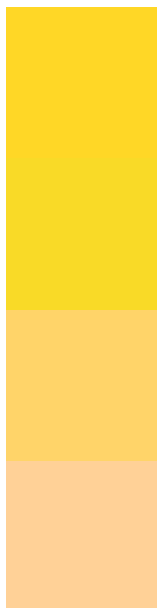
69.8317, 0.3968, 0.3987



## Tritanopia

69.8805, 0.3433, 0.3179

# Trichromacy



## Original Color

70.0008, 0.4459, 0.4737

## Protanomaly

70.4290, 0.4387, 0.4790

## Deuteranomaly

69.3669, 0.4211, 0.4338

## Tritanomaly

69.0953, 0.3919, 0.3889

# Monochromacy



## Original Color

70.0008, 0.4459, 0.4737

## Achromatopsia

62.3960, 0.3127, 0.3290

## Achromatomaly

64.0158, 0.3699, 0.4015

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 70.0008, 0.4459, 0.4737 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, 215, 38)` looks like.

```
.text, #text, p{  
    color:rgb(255, 215, 38)  
}
```

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, 215, 38) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 215, 38) }
```

## Border

The CSS property to change the border of an element to Yxy 70.0008, 0.4459, 0.4737 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, 215, 38) }
```

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

```
.border{ border-color:rgb(255, 215, 38) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 215, 38)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 215, 38); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 215, 38);  
box-shadow:4px 4px 4px 4px rgb(255, 215,  
38) }
```



# Background

The CSS property to change the background color of an element to Yxy 70.0008, 0.4459, 0.4737 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 215, 38) }
```

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

```
.background{ background-color: rgb(255,  
215, 38) }
```

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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