

# Converting Colors

$Y_{xy}(70.4222, 0.4481, 0.4787)$

Have a look what the booklet for  
Yxy(70.4222, 0.4481, 0.4787)  
contains.

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**Color**

**Yxy(70.4222, 0.4481, 0.4787)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFD814
RGB	255, 216, 20
RGB Percent	100%, 85%, 8%
CMY	0.0000, 0.1529, 0.9225
CMYK	0.00, 0.15, 0.92, 0.00
HSL	50°, 100%, 54%
HSV	50°, 92%, 100%
XYZ	65.9206, 70.4222, 10.7686
YIQ	205.3170, 86.1600, -52.6880

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
<b>RYB</b>	67, 255, 20
Decimal	16766996
CIELab	87.20, -2.26, 85.45
CIElCh	87, 85.477, 91.513
Yxy	70.4222, 0.4481, 0.4787
Android (android.graphics.Color)	4294957076 (0xFFFFD814)
YUV	205.3170, -91.3613, 43.5720
Hunter-Lab	83.9179, -6.6381, 51.1343

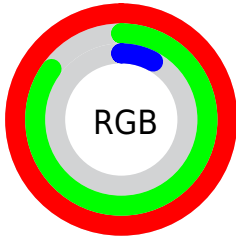
# Details

The Yxy color **70.4222, 0.4481, 0.4787** 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 **10.4693, 0.1579, 0.0831**, and the grayscale version is **61.8008, 0.3127, 0.3290**.

A 20% lighter version of the original color is **93.5882, 0.4009, 0.4748**, and **37.1781, 0.4509, 0.4802** is the 20% darker color. If you saturate the color by 10%, you get **68.7138, 0.4527, 0.4788**, and if you desaturate by 10%, it is **72.7613, 0.4400, 0.4751**.

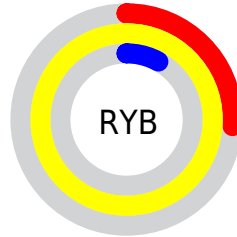
# Distribution



Red (100%)

Green (85%)

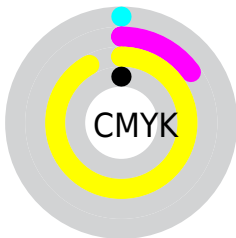
Blue (8%)



Red (26%)

Yellow (100%)

Blue (8%)

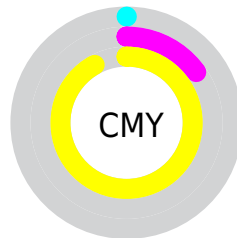


Cyan (0%)

Magenta (15%)

Yellow (92%)

Black (0%)



Cyan (0%)

Magenta (15%)


Yellow (92%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 70.4222, 0.4481, 0.4787 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 70.4222, 0.4481, 0.4787 by changing the saturation by 10% instead.





 70.4222, 0.4481,  
0.4787


 70.4222, 0.4481,  
0.4787


462.0310, 0.3944,  
0.4184


 51.8708, 0.4567,  
0.4887


 119.8106, 0.4323,  
0.4606

 36.9021, 0.4652,  
0.4988


 151.4165, 0.4252,  
0.4527


 25.1317, 0.4729,  
0.5084


 188.1426, 0.4188,  
0.4455

 16.1752, 0.4811,  
0.5189

 230.3734, 0.4130,  
0.4390

 9.6482, 0.4799,  
0.5201

 278.4932, 0.4077,  
0.4331

 5.1663, 0.4782,  
0.5218

 332.8865, 0.4029,

 2.3452, 0.4754,

0.4277

0.5246

393.9376, 0.3985,  
0.4228

■ 0.7975, 0.4685,  
0.5315

■ 0.0000, 0.0000,  
0.0000

■ 70.4222, 0.4481,  
0.4787

■ 70.4222, 0.4481,  
0.4787

■ 68.7138, 0.4527,  
0.4788

■ 72.7613, 0.4400,  
0.4751


■ 75.2718, 0.4289,  
0.4669


■ 77.9759, 0.4152,  
0.4542


■ 80.8893, 0.3996,  
0.4377

 84.0257, 0.3828,  
0.4185

 87.3973, 0.3655,  
0.3977

 91.0154, 0.3483,  
0.3761

 94.8901, 0.3317,  
0.3545

 99.0311, 0.3161,  
0.3336

# Harmonies

## Analogous

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



70.4222, 0.5054, 0.4087



70.4222, 0.4481, 0.4787



70.4222, 0.3611, 0.5219

# Triad

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



70.4222, 0.4481, 0.4787



70.4222, 0.1507, 0.2712



70.4222, 0.3344, 0.2203

# Complementary

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



70.4222, 0.4481, 0.4787



10.4693, 0.1579, 0.0831

# 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.



70.4222, 0.2383, 0.1881



70.4222, 0.4481, 0.4787



70.4222, 0.1470, 0.2064

# Square

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



70.4222, 0.4481, 0.4787



70.4222, 0.1904, 0.3799



70.4222, 0.1756, 0.1819



70.4222, 0.4402, 0.2734



# Rectangle

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



70.4222, 0.4481, 0.4787



70.4222, 0.2977, 0.5107



70.4222, 0.1756, 0.1819



70.4222, 0.2994, 0.2069

# Sweetspot

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



70.4256, 0.4481, 0.4787



88.9039, 0.3581, 0.3885



22.0675, 0.5996, 0.3130



18.7017, 0.3656, 0.3978



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.



70.4256, 0.4481, 0.4787



68.7138, 0.4527, 0.4788



80.8685, 0.3638, 0.5456



20.5479, 0.3273, 0.3487



36.0943, 0.4520, 0.4793



3.6445, 0.4477, 0.4828



# Inverse Universe

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



10.4693, 0.1579, 0.0831



8.8950, 0.1534, 0.0723



10.3186, 0.1810, 0.0800



17.8641, 0.2979, 0.3085



4.7896, 0.1540, 0.0742



0.5969, 0.1588, 0.0918



# Previews

## White Background



This preview shows how the Yxy color 70.4222, 0.4481, 0.4787 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 70.4222, 0.4481, 0.4787 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 70.4222, 0.4481, 0.4787**

## **Background**



This preview shows how black text looks on a background with the Yxy color 70.4222, 0.4481, 0.4787.



This preview shows how white text looks on a background with the Yxy color 70.4222, 0.4481, 0.4787.

# 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

70.4222, 0.4481, 0.4787

### Protanopia

70.4913, 0.4394, 0.4853

### Deuteranopia

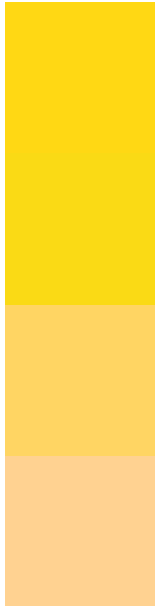
70.3913, 0.3949, 0.3977



## Tritanopia

70.4124, 0.3424, 0.3179

# Trichromacy



## Original Color

70.4222, 0.4481, 0.4787

## Protanomaly

70.5209, 0.4425, 0.4828

## Deuteranomaly

69.7494, 0.4238, 0.4393

## Tritanomaly

69.3975, 0.3958, 0.3958

# Monochromacy



## Original Color

70.4222, 0.4481, 0.4787

## Achromatopsia

61.0496, 0.3127, 0.3290

## Achromatomaly

63.1239, 0.3751, 0.4096

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 70.4222, 0.4481, 0.4787 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, 216, 20)` looks like.

```
.text, #text, p{  
    color:rgb(255, 216, 20)  
}
```

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, 216, 20) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 216, 20) }
```

## Border

The CSS property to change the border of an element to Yxy 70.4222, 0.4481, 0.4787 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, 216, 20) }
```

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

```
.border{ border-color:rgb(255, 216, 20) }
```

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

Here you see how a box with a 4 pixel rgb(255, 216, 20) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 216, 20); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 216, 20);  
box-shadow:4px 4px 4px 4px rgb(255, 216,  
20) }
```



# Background

The CSS property to change the background color of an element to Yxy 70.4222, 0.4481, 0.4787 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 216, 20) }
```

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

```
.background{ background-color: rgb(255,  
216, 20) }
```

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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