

# Converting Colors

$Y_{xy}(70.9218, 0.4474, 0.4796)$

Have a look what the booklet for  
Yxy(70.9218, 0.4474, 0.4796)  
contains.

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**Color**

**Yxy(70.9294, 0.4474, 0.4797)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFD912
RGB	255, 217, 18
RGB Percent	100%, 85%, 7%
CMY	0.0001, 0.1489, 0.9291
CMYK	0.00, 0.15, 0.93, 0.00
HSL	50°, 100%, 54%
HSV	50°, 93%, 100%
XYZ	66.1535, 70.9294, 10.7791
YIQ	205.6760, 86.5270, -53.8330

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
<b>RYB</b>	63, 255, 18
Decimal	16767250
CIELab	87.45, -2.80, 85.84
CIELCh	87, 85.888, 91.869
Yxy	70.9294, 0.4474, 0.4797
Android (android.graphics.Color)	4294957330 (0xFFFFD912)
YUV	205.6760, -92.5243, 43.2571
Hunter-Lab	84.2196, -7.1747, 51.3653

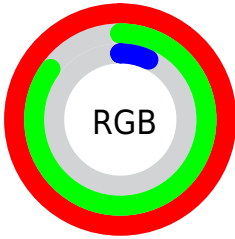
# Details

The Yxy color **70.9294, 0.4474, 0.4797** 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 **10.1786, 0.1572, 0.0812**, and the grayscale version is **62.0714, 0.3127, 0.3290**.

A 20% lighter version of the original color is **93.5882, 0.4009, 0.4748**, and **37.5318, 0.4498, 0.4811** is the 20% darker color. If you saturate the color by 10%, you get **69.4083, 0.4514, 0.4798**, and if you desaturate by 10%, it is **73.1996, 0.4396, 0.4764**.

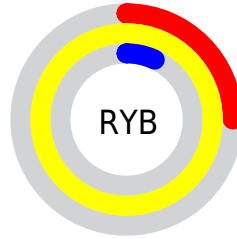
# Distribution



Red (100%)

Green (85%)

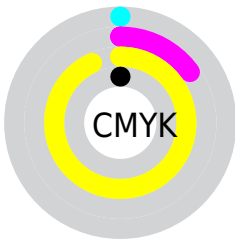
Blue (7%)



Red (25%)

Yellow (100%)

Blue (7%)

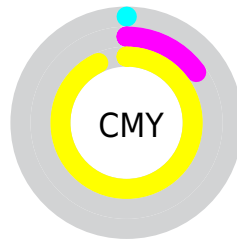


Cyan (0%)

Magenta (15%)

Yellow (93%)

Black (0%)



Cyan (0%)

Magenta (15%)


Yellow (93%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 70.9294, 0.4474, 0.4797 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 70.9294, 0.4474, 0.4797 by changing the saturation by 10% instead.




 70.9294, 0.4474,  
0.4797


 70.9294, 0.4474,  
0.4797


463.8066, 0.3942,  
0.4190


 52.2846, 0.4559,  
0.4898

 120.5332, 0.4317,  
0.4615


 37.2320, 0.4642,  
0.5000


 152.2610, 0.4248,  
0.4535


 25.3871, 0.4717,  
0.5097


 189.1185, 0.4184,  
0.4463

 16.3657, 0.4796,  
0.5204

 231.4902, 0.4127,  
0.4397

 9.7833, 0.4781,  
0.5219

 279.7605, 0.4074,  
0.4338

 5.2555, 0.4760,  
0.5240

 334.3137, 0.4026,

 2.3980, 0.4726,

0.4284

0.5274

395.5343, 0.3982,  
0.4235

■ 0.8248, 0.4645,  
0.5355

■ 0.0000, 0.0000,  
0.0000

■ 70.9294, 0.4474,  
0.4797

■ 70.9294, 0.4474,  
0.4797


■ 69.4083, 0.4514,  
0.4798

■ 73.1996, 0.4396,  
0.4764


■ 75.6361, 0.4290,  
0.4683


■ 78.2613, 0.4157,  
0.4558

■ 81.0912, 0.4003,  
0.4395

 84.1394, 0.3837,  
0.4204

 87.4183, 0.3665,  
0.3995

 90.9390, 0.3493,  
0.3778

 94.7118, 0.3328,  
0.3561

 98.7464, 0.3171,  
0.3350

# Harmonies

## Analogous

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



70.9294, 0.5054, 0.4097



70.9294, 0.4474, 0.4797



70.9294, 0.3600, 0.5225

# Triad

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



70.9294, 0.4474, 0.4797



70.9294, 0.1501, 0.2699



70.9294, 0.3357, 0.2206

# Complementary

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



70.9294, 0.4474, 0.4797



10.1786, 0.1572, 0.0812

# 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.



70.9294, 0.2391, 0.1881



70.9294, 0.4474, 0.4797



70.9294, 0.1469, 0.2056

# Square

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



70.9294, 0.4474, 0.4797



70.9294, 0.1895, 0.3786



70.9294, 0.1759, 0.1816



70.9294, 0.4416, 0.2740



# Rectangle

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



70.9294, 0.4474, 0.4797



70.9294, 0.2965, 0.5106



70.9294, 0.1759, 0.1816



70.9294, 0.3005, 0.2071

# Sweetspot

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



70.9328, 0.4474, 0.4797



89.1420, 0.3580, 0.3889



21.9900, 0.6015, 0.3135



18.7599, 0.3655, 0.3982



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.



70.9328, 0.4474, 0.4797



69.4292, 0.4514, 0.4798



80.7730, 0.3636, 0.5462



20.5659, 0.3273, 0.3488



36.4634, 0.4508, 0.4803



3.6771, 0.4466, 0.4836



# Inverse Universe

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



10.1786, 0.1572, 0.0812



8.7955, 0.1532, 0.0715



10.1970, 0.1802, 0.0792



17.8476, 0.2979, 0.3084



4.7337, 0.1537, 0.0734



0.5890, 0.1586, 0.0907



# Previews

## White Background



This preview shows how the Yxy color 70.9294, 0.4474, 0.4797 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

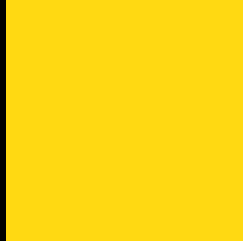
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 70.9294, 0.4474, 0.4797 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 70.9294, 0.4474, 0.4797**

## Background



This preview shows how black text looks on a background with the Yxy color 70.9294, 0.4474, 0.4797.



This preview shows how white text looks on a background with the Yxy color 70.9294, 0.4474, 0.4797.

# 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

70.9294, 0.4474, 0.4797

### Protanopia

71.0076, 0.4388, 0.4863

### Deuteranopia

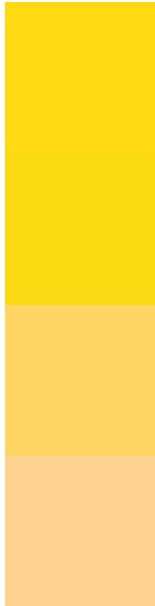
70.9866, 0.3924, 0.3957



## Tritanopia

70.9476, 0.3415, 0.3179

# Trichromacy



**Original Color**

70.9294, 0.4474, 0.4797

**Protanomaly**

71.0340, 0.4419, 0.4838

**Deuteranomaly**

70.2927, 0.4221, 0.4387

**Tritanomaly**

69.8929, 0.3954, 0.3968

# Monochromacy



**Original Color**

70.9294, 0.4474, 0.4797

**Achromatopsia**

61.7207, 0.3127, 0.3290

**Achromatomaly**

63.7755, 0.3756, 0.4103

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 70.9294, 0.4474, 0.4797 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, 217, 18)` looks like.

```
.text, #text, p{  
    color:rgb(255, 217, 18)  
}
```

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, 217, 18) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 217, 18) }
```

## Border

The CSS property to change the border of an element to Yxy 70.9294, 0.4474, 0.4797 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, 217, 18) }
```

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

```
.border{ border-color:rgb(255, 217, 18) }
```

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

Here you see how a box with a 4 pixel rgb(255, 217, 18) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 217, 18); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 217, 18);  
box-shadow:4px 4px 4px 4px rgb(255, 217,  
18) }
```



# Background

The CSS property to change the background color of an element to  $\text{Yxy } 70.9294, 0.4474, 0.4797$  is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 217, 18) }
```

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

```
.background{ background-color: rgb(255,  
217, 18) }
```

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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