

# Converting Colors

$Yxy(70.2136, 0.4383, 0.4630)$

Have a look what the booklet for  
Yxy(70.2136, 0.4383, 0.4630)  
contains.

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# **Color**

**Yxy(70.2310, 0.4384, 0.4633)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFD740
RGB	255, 215, 64
RGB Percent	100%, 84%, 25%
CMY	0.0001, 0.1568, 0.7491
CMYK	0.00, 0.16, 0.75, 0.00
HSL	47°, 100%, 63%
HSV	47°, 75%, 100%
XYZ	66.4564, 70.2310, 14.9012
YIQ	209.7460, 72.3110, -38.4810

# Conversions

## Conversions Part 2

Format	Color
R <sub>Y</sub> B	115, 255, 64
Decimal	16766784
CIE Lab	87.11, -0.66, 74.71
CIE LCh	87, 74.713, 90.505
Yxy	70.2310, 0.4384, 0.4633
Android (android.graphics.Color)	4294956864 (0xFFFFD740)
YUV	209.7460, -71.8528, 39.6878
Hunter-Lab	83.8039, -5.1066, 48.1204

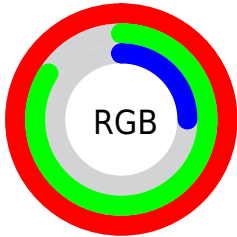
# Details

The Yxy color **70.2310, 0.4384, 0.4633** is a light color, and the websafe version is hex **FFCC33**.

The color can be described as light washed yellow. A complement of this color would be **18.1949, 0.1792, 0.1299**, and the grayscale version is **64.7176, 0.3127, 0.3290**.

A 20% lighter version of the original color is **94.1851, 0.3889, 0.4549**, and **36.9591, 0.4530, 0.4785** is the 20% darker color. If you saturate the color by 10%, you get **67.3352, 0.4503, 0.4697**, and if you desaturate by 10%, it is **73.3547, 0.4238, 0.4523**.

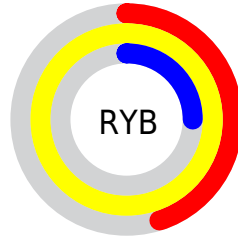
# Distribution



Red (100%)

Green (84%)

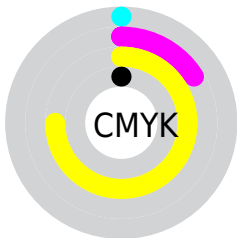
Blue (25%)



Red (45%)

Yellow (100%)

Blue (25%)

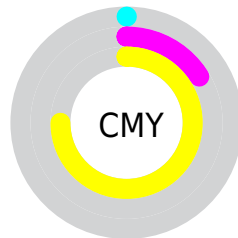


Cyan (0%)

Magenta (16%)

Yellow (75%)

Black (0%)



Cyan (0%)

Magenta (16%)


Yellow (75%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 70.2310, 0.4384, 0.4633 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 70.2310, 0.4384, 0.4633 by changing the saturation by 10% instead.




 70.2310, 0.4384,  
0.4633

 70.2310, 0.4384,  
0.4633


461.3607, 0.3860,  
0.4071

 51.7149, 0.4478,  
0.4734


 119.5381, 0.4221,  
0.4458


 36.7779, 0.4578,  
0.4843


 151.0979, 0.4152,  
0.4384

 25.0355, 0.4680,  
0.4955


 187.7744, 0.4090,  
0.4317

 16.1035, 0.4785,  
0.5071

 229.9519, 0.4034,  
0.4257

 9.5974, 0.4851,  
0.5149

 278.0149, 0.3984,  
0.4203

 5.1329, 0.4846,  
0.5154

332.3478, 0.3939,

 2.3254, 0.4838,

0.4155

393.3349, 0.3898,  
0.4111

0.5162

0.7871, 0.4819,  
0.5181

0.0000, 0.0000,  
0.0000

70.2310, 0.4384,  
0.4633

70.2310, 0.4384,  
0.4633

67.3352, 0.4503,  
0.4697

73.3547, 0.4238,  
0.4523

64.6365, 0.4592,  
0.4713

76.7129, 0.4072,  
0.4374

63.3236, 0.4628,  
0.4707

80.3235, 0.3895,  
0.4195

84.1996, 0.3713,  
0.3998

■ 88.3529, 0.3534,  
0.3792

■ 92.7943, 0.3363,  
0.3586

■ 97.5340, 0.3202,  
0.3385

■ 99.9936, 0.3127,  
0.3290

# Harmonies

## Analogous

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



70.2310, 0.4857, 0.4025



70.2310, 0.4384, 0.4633



70.2310, 0.3619, 0.4975

# Triad

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



70.2310, 0.4384, 0.4633



70.2310, 0.1679, 0.2825



70.2310, 0.3294, 0.2301

# Complementary

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



70.2310, 0.4384, 0.4633



18.1949, 0.1792, 0.1299

# 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.



70.2310, 0.2447, 0.2013



70.2310, 0.4384, 0.4633



70.2310, 0.1627, 0.2219

# Square

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



70.2310, 0.4384, 0.4633



70.2310, 0.2066, 0.3776



70.2310, 0.1882, 0.1971



70.2310, 0.4218, 0.2784



# Rectangle

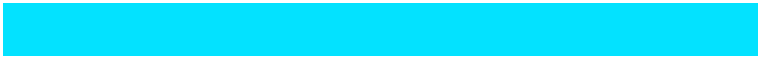
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



70.2310, 0.4384, 0.4633



70.2310, 0.3049, 0.4867



70.2310, 0.1882, 0.1971



70.2310, 0.2988, 0.2180

# Sweetspot

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



70.2344, 0.4384, 0.4633



89.6391, 0.3484, 0.3732



25.9465, 0.5206, 0.2960



18.9345, 0.3531, 0.3788



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.



70.2344, 0.4384, 0.4633



65.9559, 0.4552, 0.4711



84.2660, 0.3728, 0.5173



20.4076, 0.3274, 0.3477



33.3214, 0.4620, 0.4714



3.3985, 0.4561, 0.4760



# Inverse Universe

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



18.1949, 0.1792, 0.1299



12.2647, 0.1618, 0.0951



14.7417, 0.1982, 0.1068



17.9932, 0.2979, 0.3096



5.2904, 0.1558, 0.0809



0.6638, 0.1612, 0.1003



# Previews

## White Background



This preview shows how the Yxy color 70.2310, 0.4384, 0.4633 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 70.2310, 0.4384, 0.4633 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 70.2310, 0.4384, 0.4633**

## **Background**



This preview shows how black text looks on a background with the Yxy color 70.2310, 0.4384, 0.4633.



This preview shows how white text looks on a background with the Yxy color 70.2310, 0.4384, 0.4633.

# 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

70.2310, 0.4384, 0.4633

### Protanopia

70.4572, 0.4273, 0.4709

### Deuteranopia

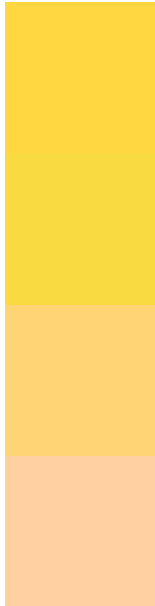
69.9239, 0.3947, 0.3958



## Tritanopia

69.9324, 0.3425, 0.3169

# Trichromacy



## Original Color

70.2310, 0.4384, 0.4633

## Protanomaly

70.6642, 0.4312, 0.4681

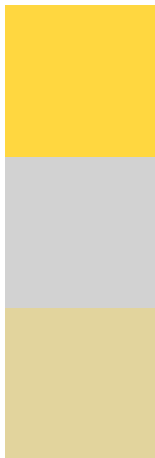
## Deuteranomaly

69.6079, 0.4144, 0.4246

## Tritanomaly

69.4341, 0.3844, 0.3788

# Monochromacy



## Original Color

70.2310, 0.4384, 0.4633

## Achromatopsia

64.4480, 0.3127, 0.3290

## Achromatomaly

65.6900, 0.3630, 0.3909

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 70.2310, 0.4384, 0.4633 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, 64)` looks like.

```
.text, #text, p{  
    color:rgb(255, 215, 64)  
}
```

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, 64) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 215, 64) }
```

## Border

The CSS property to change the border of an element to Yxy 70.2310, 0.4384, 0.4633 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, 64) }
```

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

```
.border{ border-color:rgb(255, 215, 64) }
```

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, 64)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 215, 64); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 215, 64);  
box-shadow:4px 4px 4px 4px rgb(255, 215,  
64) }
```



# Background

The CSS property to change the background color of an element to Yxy 70.2310, 0.4384, 0.4633 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, 64) }
```

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

```
.background{ background-color: rgb(255,  
215, 64) }
```

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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