

# Converting Colors

$Y_{xy}(73.4616, 0.4702, 0.4697)$

Have a look what the booklet for  
Yxy(73.4616, 0.4702, 0.4697)  
contains.

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**Color**

**Yxy(69.3531, 0.4515, 0.4797)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFD600
RGB	255, 214, 0
RGB Percent	100%, 84%, 0%
CMY	0.0002, 0.1607, 0.9998
CMYK	0.00, 0.16, 1.00, 0.00
HSL	50°, 100%, 50%
HSV	50°, 100%, 100%
XYZ	65.2761, 69.3531, 9.9468
YIQ	201.8630, 93.1300, -57.8620

# Conversions

## Conversions Part 2

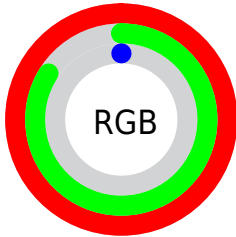
Format	Color
<b>R<sub>YB</sub></b>	49, 255, 0
Decimal	16766464
CIE Lab	86.68, -1.44, 86.96
CIE LCh	87, 86.969, 90.950
Yxy	69.3531, 0.4515, 0.4797
Android (android.graphics.Color)	4294956544 (0xFFFFD600)
YUV	201.8630, -99.5185, 46.6011
Hunter-Lab	83.2785, -5.8240, 51.2133

# Details

The Yxy color **69.3531, 0.4515, 0.4797** is a light color, and the websafe version is hex **FFCC00**. The color can be described as light saturated yellow. A complement of this color would be **8.8032, 0.1532, 0.0716**, and the grayscale version is **59.5661, 0.3127, 0.3290**.

A 20% lighter version of the original color is **93.5013, 0.4028, 0.4779**, and **36.4791, 0.4532, 0.4783** is the 20% darker color. If you saturate the color by 10%, you get **69.3520, 0.4515, 0.4797**, and if you desaturate by 10%, it is **71.5280, 0.4455, 0.4791**.

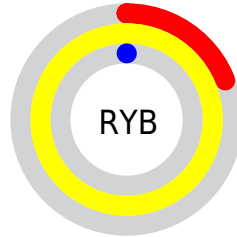
# Distribution



Red (100%)

Green (84%)

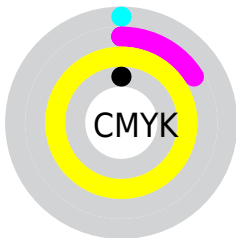
Blue (0%)



Red (19%)

Yellow (100%)

Blue (0%)

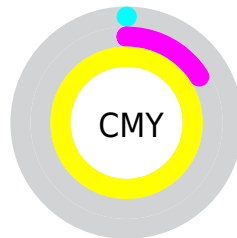


Cyan (0%)

Magenta (16%)

Yellow (100%)

Black (0%)



Cyan (0%)

Magenta (16%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 69.3531, 0.4515, 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 69.3531, 0.4515, 0.4797 by changing the saturation by 10% instead.




 69.3531, 0.4515,  
0.4797


 69.3531, 0.4515,  
0.4797


458.2753, 0.3967,  
0.4195

 50.9993, 0.4601,  
0.4894


 118.2858, 0.4354,  
0.4619


 36.2081, 0.4687,  
0.4991

 149.6335, 0.4283,  
0.4540

 24.5949, 0.4763,  
0.5081


 186.0812, 0.4217,  
0.4468

 15.7755, 0.4833,  
0.5167

 228.0135, 0.4157,  
0.4403

 9.3655, 0.4825,  
0.5175

 275.8147, 0.4103,  
0.4344

 4.9803, 0.4814,  
0.5186

 329.8691, 0.4053,

 2.2357, 0.4796,

0.4290

0.5204

390.5612, 0.4008,  
0.4240

■ 0.7394, 0.4745,  
0.5255

■ 0.0000, 0.0000,  
0.0000

■ 69.3531, 0.4515,  
0.4797

■ 69.3531, 0.4515,  
0.4797

■ 69.3520, 0.4515,  
0.4797

■ 71.5280, 0.4455,  
0.4791

■ 73.8465, 0.4369,  
0.4744

■ 76.3409, 0.4254,  
0.4650

■ 79.0292, 0.4114,  
0.4513

■ 81.9267, 0.3956,  
0.4341

■ 85.0465, 0.3787,  
0.4144

■ 88.4006, 0.3614,  
0.3932

■ 91.9998, 0.3444,  
0.3714

■ 95.8543, 0.3281,  
0.3498

# Harmonies

## Analogous

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



69.3531, 0.5096, 0.4079



69.3531, 0.4515, 0.4797



69.3531, 0.3631, 0.5259

# Triad

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



69.3531, 0.4515, 0.4797



69.3531, 0.1482, 0.2713



69.3531, 0.3326, 0.2175

# Complementary

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



69.3531, 0.4515, 0.4797



8.8032, 0.1532, 0.0716

# 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.



69.3531, 0.2352, 0.1854



69.3531, 0.4515, 0.4797



69.3531, 0.1441, 0.2048

# Square

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



69.3531, 0.4515, 0.4797



69.3531, 0.1890, 0.3833



69.3531, 0.1723, 0.1795



69.3531, 0.4411, 0.2710



# Rectangle

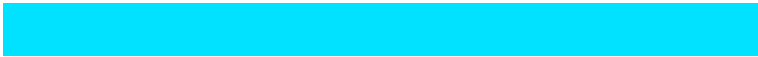
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



69.3531, 0.4515, 0.4797



69.3531, 0.2986, 0.5163



69.3531, 0.1723, 0.1795



69.3531, 0.2970, 0.2041

# Sweetspot

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



69.3565, 0.4515, 0.4797



88.4245, 0.3615, 0.3932



21.4247, 0.6193, 0.3185



18.6175, 0.3688, 0.4023



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.



69.3565, 0.4515, 0.4797



69.3764, 0.4515, 0.4797



80.0398, 0.3607, 0.5518



20.5646, 0.3273, 0.3488



36.4361, 0.4509, 0.4802



3.6747, 0.4467, 0.4835



# Inverse Universe

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



8.8032, 0.1532, 0.0716



8.8027, 0.1532, 0.0716



9.1510, 0.1728, 0.0725



17.8488, 0.2979, 0.3084



4.7378, 0.1538, 0.0735



0.5896, 0.1586, 0.0908



# Previews

## White Background



This preview shows how the Yxy color 69.3531, 0.4515, 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 69.3531, 0.4515, 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 69.3531, 0.4515, 0.4797**

## **Background**



This preview shows how black text looks on a background with the Yxy color 69.3531, 0.4515, 0.4797.



This preview shows how white text looks on a background with the Yxy color 69.3531, 0.4515, 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

69.3531, 0.4515, 0.4797

### Protanopia

69.5750, 0.4398, 0.4875

### Deuteranopia

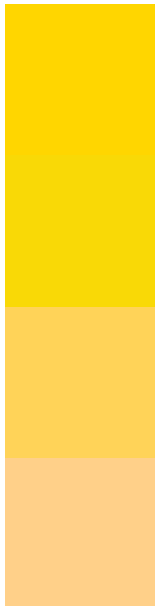
69.2173, 0.4001, 0.4017



## Tritanopia

69.3520, 0.3442, 0.3179

# Trichromacy



## Original Color

69.3531, 0.4515, 0.4797

## Protanomaly

69.7786, 0.4440, 0.4847

## Deuteranomaly

68.5531, 0.4310, 0.4457

## Tritanomaly

68.1779, 0.4025, 0.4017

# Monochromacy



## Original Color

69.3531, 0.4515, 0.4797

## Achromatopsia

59.0619, 0.3127, 0.3290

## Achromatomaly

61.0997, 0.3811, 0.4169

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 69.3531, 0.4515, 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, 214, 0)` looks like.

```
.text, #text, p{  
  color:rgb(255, 214, 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, 214, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 214, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 69.3531, 0.4515, 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, 214, 0) }
```

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

```
.border{ border-color:rgb(255, 214, 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, 214, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 214, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 214, 0);  
box-shadow:4px 4px 4px 4px rgb(255, 214,  
0) }
```



# Background

The CSS property to change the background color of an element to Yxy 69.3531, 0.4515, 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, 214, 0) }
```

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

```
.background{ background-color: rgb(255,  
214, 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](#).

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