

# Converting Colors

$Yxy(87.1715, 0.4967, 0.4316)$

Have a look what the booklet for  
Yxy(87.1715, 0.4967, 0.4316)  
contains.

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# **Color**

**Yxy(69.5749, 0.4440, 0.4692)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFD631
RGB	255, 214, 49
RGB Percent	100%, 84%, 19%
CMY	0.0001, 0.1607, 0.8076
CMYK	0.00, 0.16, 0.81, 0.00
HSL	48°, 100%, 60%
HSV	48°, 81%, 100%
XYZ	65.8381, 69.5749, 12.8711
YIQ	207.4490, 77.4010, -42.6230

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	100, 255, 49
Decimal	16766513
CIE Lab	86.79, -0.65, 79.07
CIE LCh	87, 79.068, 90.471
Yxy	69.5749, 0.4440, 0.4692
Android (android.graphics.Color)	4294956593 (0xFFFFD631)
YUV	207.4490, -78.1154, 41.7022
Hunter-Lab	83.4116, -5.0772, 49.2392

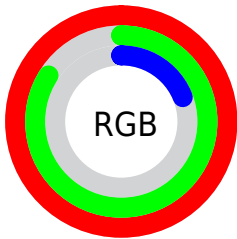
# Details

The Yxy color **69.5749, 0.4440, 0.4692** 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 **15.1921, 0.1708, 0.1130**, and the grayscale version is **63.1842, 0.3127, 0.3290**.

A 20% lighter version of the original color is **93.9058, 0.3944, 0.4640**, and **36.6109, 0.4542, 0.4776** is the 20% darker color. If you saturate the color by 10%, you get **66.8916, 0.4538, 0.4729**, and if you desaturate by 10%, it is **72.4665, 0.4313, 0.4607**.

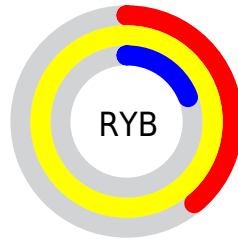
# Distribution



Red (100%)

Green (84%)

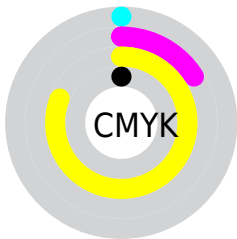
Blue (19%)



Red (39%)

Yellow (100%)

Blue (19%)

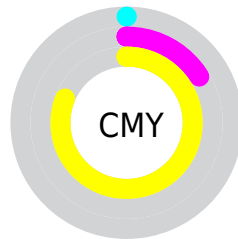


Cyan (0%)

Magenta (16%)

Yellow (81%)

Black (0%)



Cyan (0%)

Magenta (16%)


Yellow (81%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 69.5749, 0.4440, 0.4692 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 69.5749, 0.4440, 0.4692 by changing the saturation by 10% instead.




 69.5749, 0.4440,  
0.4692

 69.5749, 0.4440,  
0.4692


459.0560, 0.3902,  
0.4115

 51.1801, 0.4533,  
0.4792


 118.6023, 0.4276,  
0.4515

 36.3519, 0.4629,  
0.4897


 150.0037, 0.4205,  
0.4439


 24.7061, 0.4724,  
0.5001


 186.5094, 0.4141,  
0.4370

 15.8582, 0.4837,  
0.5126

 228.5037, 0.4083,  
0.4309

 9.4239, 0.4852,  
0.5148

 276.3712, 0.4031,  
0.4253

 5.0187, 0.4847,  
0.5153

330.4961, 0.3984,

 2.2582, 0.4838,

0.4202

0.5162

391.2629, 0.3941,  
0.4157

■ 0.7515, 0.4817,  
0.5183

■ 0.0000, 0.0000,  
0.0000

■ 69.5749, 0.4440,  
0.4692

■ 69.5749, 0.4440,  
0.4692

■ 66.8916, 0.4538,  
0.4729


■ 72.4665, 0.4313,  
0.4607


■ 64.5613, 0.4604,  
0.4726


■ 75.5750, 0.4162,  
0.4478

■ 78.9194, 0.3993,  
0.4314

■ 82.5133, 0.3816,  
0.4125

 86.3693, 0.3636,  
0.3921

 90.4984, 0.3461,  
0.3712

 94.9113, 0.3294,  
0.3505

99.6176, 0.3138,  
0.3305

99.9972, 0.3127,  
0.3290

# Harmonies

## Analogous

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



69.5749, 0.4949, 0.4043



69.5749, 0.4440, 0.4692



69.5749, 0.3632, 0.5079

# Triad

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



69.5749, 0.4440, 0.4692



69.5749, 0.1607, 0.2791



69.5749, 0.3299, 0.2251

# Complementary

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



69.5749, 0.4440, 0.4692



15.1921, 0.1708, 0.1130

# 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.



69.5749, 0.2406, 0.1952



69.5749, 0.4440, 0.4692



69.5749, 0.1556, 0.2158

# Square

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



69.5749, 0.4440, 0.4692



69.5749, 0.2006, 0.3805



69.5749, 0.1819, 0.1906



69.5749, 0.4282, 0.2753



# Rectangle

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



69.5749, 0.4440, 0.4692



69.5749, 0.3034, 0.4977



69.5749, 0.1819, 0.1906



69.5749, 0.2975, 0.2126

# Sweetspot

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



69.5783, 0.4440, 0.4692



89.1411, 0.3517, 0.3780



24.2015, 0.5492, 0.3008



18.7650, 0.3580, 0.3854



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.



69.5783, 0.4440, 0.4692



65.3148, 0.4584, 0.4729



83.0979, 0.3709, 0.5282



20.4404, 0.3274, 0.3479



33.9553, 0.4596, 0.4733



3.4550, 0.4541, 0.4776



# Inverse Universe

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



15.1921, 0.1708, 0.1130



10.1825, 0.1564, 0.0812



12.7900, 0.1914, 0.0953



17.9628, 0.2979, 0.3094



5.1623, 0.1553, 0.0792



0.6472, 0.1606, 0.0982



# Previews

## White Background



This preview shows how the Yxy color 69.5749, 0.4440, 0.4692 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

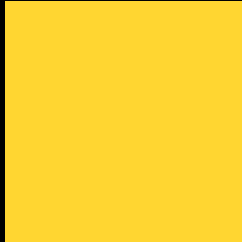
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 69.5749, 0.4440, 0.4692 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 69.5749, 0.4440, 0.4692**

## Background



This preview shows how black text looks on a background with the Yxy color 69.5749, 0.4440, 0.4692.



This preview shows how white text looks on a background with the Yxy color 69.5749, 0.4440, 0.4692.

# 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

69.5749, 0.4440, 0.4692

### Protanopia

69.6062, 0.4321, 0.4777

### Deuteranopia

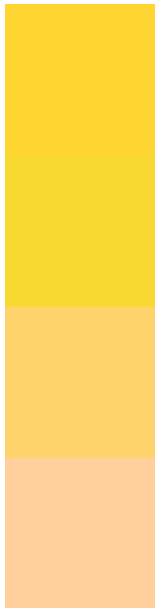
69.3062, 0.3980, 0.3988



## Tritanopia

69.3520, 0.3442, 0.3179

# Trichromacy



## Original Color

69.5749, 0.4440, 0.4692

## Protanomaly

69.8125, 0.4360, 0.4748

## Deuteranomaly

68.9312, 0.4199, 0.4305

## Tritanomaly

68.7383, 0.3893, 0.3839

# Monochromacy



## Original Color

69.5749, 0.4440, 0.4692

## Achromatopsia

62.3960, 0.3127, 0.3290

## Achromatomaly

64.1425, 0.3670, 0.3971

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 69.5749, 0.4440, 0.4692 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, 49)` looks like.

```
.text, #text, p{  
    color:rgb(255, 214, 49)  
}
```

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, 49) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 214, 49) }
```

## Border

The CSS property to change the border of an element to Yxy 69.5749, 0.4440, 0.4692 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, 49) }
```

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

```
.border{ border-color:rgb(255, 214, 49) }
```

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, 49) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 214, 49); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 214, 49);  
box-shadow:4px 4px 4px 4px rgb(255, 214,  
49) }
```



# Background

The CSS property to change the background color of an element to Yxy 69.5749, 0.4440, 0.4692 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, 49) }
```

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

```
.background{ background-color: rgb(255,  
214, 49) }
```

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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