

# Converting Colors

$Yxy(68.7766, 0.4389, 0.4583)$

Have a look what the booklet for  
Yxy(68.7766, 0.4389, 0.4583)  
contains.

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# Color

**Yxy(68.7766, 0.4389, 0.4583)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFD445
RGB	255, 212, 69
RGB Percent	100%, 83%, 27%
CMY	0.0000, 0.1686, 0.7296
CMYK	0.00, 0.17, 0.73, 0.00
HSL	46°, 100%, 64%
HSV	46°, 73%, 100%
XYZ	65.8653, 68.7766, 15.4271
YIQ	208.5550, 71.5310, -35.3570

# Conversions

## Conversions Part 2

Format	Color
<a href="#">RYB</a>	<a href="#">125, 255, 69</a>
Decimal	<a href="#">16766021</a>
CIELab	<a href="#">86.39, 1.11, 72.28</a>
CIElCh	<a href="#">86, 72.284, 89.119</a>
Yxy	<a href="#">68.7766, 0.4389, 0.4583</a>
Android (android.graphics.Color)	<a href="#">4294956101 (0xFFFFD445)</a>
YUV	<a href="#">208.5550, -68.8006, 40.7323</a>
Hunter-Lab	<a href="#">82.9317, -3.3637, 47.0229</a>

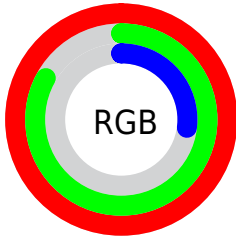
# Details

The Yxy color **68.7766, 0.4389, 0.4583** 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 **20.0649, 0.1833, 0.1399**, and the grayscale version is **63.8719, 0.3127, 0.3290**.

A 20% lighter version of the original color is **94.2864, 0.3869, 0.4517**, and **35.9231, 0.4565, 0.4757** is the 20% darker color. If you saturate the color by 10%, you get **65.6292, 0.4522, 0.4653**, and if you desaturate by 10%, it is **72.1624, 0.4230, 0.4468**.

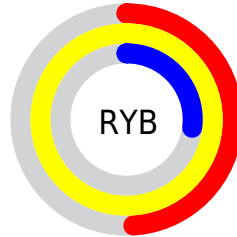
# Distribution



Red (100%)

Green (83%)

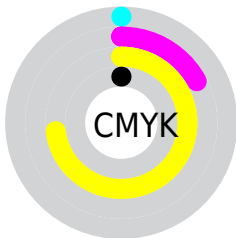
Blue (27%)



Red (49%)

Yellow (100%)

Blue (27%)

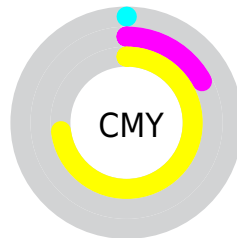


Cyan (0%)

Magenta (17%)

Yellow (73%)

Black (0%)



Cyan (0%)

Magenta (17%)


Yellow (73%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 68.7766, 0.4389, 0.4583 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 68.7766, 0.4389, 0.4583 by changing the saturation by 10% instead.




 68.7766, 0.4389,  
0.4583

 68.7766, 0.4389,  
0.4583


456.2427, 0.3855,  
0.4040


 50.5298, 0.4487,  
0.4682


 117.4624, 0.4221,  
0.4413

 35.8345, 0.4594,  
0.4788


 148.6703, 0.4150,  
0.4341


 24.3064, 0.4705,  
0.4897


 184.9672, 0.4087,  
0.4277

 15.5611, 0.4819,  
0.5008

 226.7377, 0.4031,  
0.4219

 9.2141, 0.4910,  
0.5090

 274.3661, 0.3980,  
0.4167

 4.8811, 0.4918,  
0.5082

328.2368, 0.3934,

 2.1777, 0.4932,

0.4121

0.5068

388.7342, 0.3893,  
0.4078

■ 0.7078, 0.4972,  
0.5028

■ 0.0000, 0.0000,  
0.0000

■ 68.7766, 0.4389,  
0.4583

■ 68.7766, 0.4389,  
0.4583

■ 65.6292, 0.4522,  
0.4653

■ 72.1624, 0.4230,  
0.4468

■ 62.7079, 0.4625,  
0.4674

■ 75.8109, 0.4054,  
0.4315

■ 60.7644, 0.4682,  
0.4664

■ 79.7340, 0.3870,  
0.4136

■ 83.9447, 0.3684,  
0.3941

■ 88.4550, 0.3503,  
0.3740

■ 93.2758, 0.3331,  
0.3540

■ 98.4174, 0.3172,  
0.3346

■ 100.0000, 0.3127,  
0.3290

# Harmonies

## Analogous

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



68.7766, 0.4828, 0.3987



68.7766, 0.4389, 0.4583



68.7766, 0.3651, 0.4928

# Triad

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



68.7766, 0.4389, 0.4583



68.7766, 0.1721, 0.2877



68.7766, 0.3249, 0.2304

# Complementary

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



68.7766, 0.4389, 0.4583



20.0649, 0.1833, 0.1399

# 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.



68.7766, 0.2431, 0.2032



68.7766, 0.4389, 0.4583



68.7766, 0.1653, 0.2264

# Square

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



68.7766, 0.4389, 0.4583



68.7766, 0.2118, 0.3811



68.7766, 0.1890, 0.2003



68.7766, 0.4153, 0.2772



# Rectangle

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



68.7766, 0.4389, 0.4583



68.7766, 0.3094, 0.4839



68.7766, 0.1890, 0.2003



68.7766, 0.2953, 0.2189

# Sweetspot

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



68.7741, 0.4389, 0.4583



88.9022, 0.3486, 0.3721



26.6898, 0.5081, 0.2928



18.7587, 0.3534, 0.3775



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.



68.7741, 0.4389, 0.4583



64.1291, 0.4578, 0.4670



84.9839, 0.3745, 0.5124



20.3368, 0.3275, 0.3472



31.9889, 0.4672, 0.4672



3.2794, 0.4606, 0.4725



# Inverse Universe

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



20.0649, 0.1833, 0.1399



13.6112, 0.1649, 0.1036



15.3634, 0.1992, 0.1104



18.0590, 0.2979, 0.3102



5.5896, 0.1569, 0.0848



0.7016, 0.1625, 0.1050



# Previews

## White Background



This preview shows how the Yxy color 68.7766, 0.4389, 0.4583 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 68.7766, 0.4389, 0.4583 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 68.7766, 0.4389, 0.4583**

## **Background**



This preview shows how black text looks on a background with the Yxy color 68.7766, 0.4389, 0.4583.



This preview shows how white text looks on a background with the Yxy color 68.7766, 0.4389, 0.4583.

# 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

68.7766, 0.4389, 0.4583

### Protanopia

68.9452, 0.4246, 0.4681

### Deuteranopia

68.7250, 0.4006, 0.4007



## Tritanopia

68.8269, 0.3451, 0.3179

# Trichromacy



## Original Color

68.7766, 0.4389, 0.4583

## Protanomaly

68.8172, 0.4300, 0.4640

## Deuteranomaly

68.5681, 0.4169, 0.4246

## Tritanomaly

67.9758, 0.3856, 0.3758

# Monochromacy



## Original Color

68.7766, 0.4389, 0.4583

## Achromatopsia

63.7597, 0.3127, 0.3290

## Achromatomaly

64.7306, 0.3629, 0.3877

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 68.7766, 0.4389, 0.4583 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, 212, 69)` looks like.

```
.text, #text, p{  
    color:rgb(255, 212, 69)  
}
```

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, 212, 69) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 212, 69) }
```

## Border

The CSS property to change the border of an element to Yxy 68.7766, 0.4389, 0.4583 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, 212, 69) }
```

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

```
.border{ border-color:rgb(255, 212, 69) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 212, 69)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 212, 69); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 212, 69);  
box-shadow:4px 4px 4px 4px rgb(255, 212,  
69) }
```



# Background

The CSS property to change the background color of an element to Yxy 68.7766, 0.4389, 0.4583 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 212, 69) }
```

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

```
.background{ background-color: rgb(255,  
212, 69) }
```

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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