

# Converting Colors

$Y_{xy}(79.5118, 0.4732, 0.4355)$

Have a look what the booklet for  
Yxy(79.5118, 0.4732, 0.4355)  
contains.

|                                           |    |
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# **Color**

**Yxy(68.7892, 0.4384, 0.4577)**

# Conversions

## Conversions Part 1

| Format      | Color                       |
|-------------|-----------------------------|
| Hex         | FFD446                      |
| RGB         | 255, 212, 70                |
| RGB Percent | 100%, 83%, 27%              |
| CMY         | 0.0000, 0.1686, 0.7251      |
| CMYK        | 0.00, 0.17, 0.73, 0.00      |
| HSL         | 46°, 100%, 64%              |
| HSV         | 46°, 73%, 100%              |
| XYZ         | 65.8885, 68.7892, 15.6155   |
| YIQ         | 208.6690, 71.2100, -35.0460 |

# Conversions

## Conversions Part 2

| Format                              | Color                          |
|-------------------------------------|--------------------------------|
| R <sub>Y</sub> B                    | 126, 255, 70                   |
| Decimal                             | 16766022                       |
| CIE Lab                             | 86.40, 1.14, 71.86             |
| CIE LCh                             | 86, 71.872, 89.094             |
| Yxy                                 | 68.7892, 0.4384,<br>0.4577     |
| Android<br>(android.graphics.Color) | 4294956102<br>(0xFFFFD446)     |
| YUV                                 | 208.6690, -68.3638,<br>40.6323 |
| Hunter-Lab                          | 82.9393, -3.3399,<br>46.8946   |

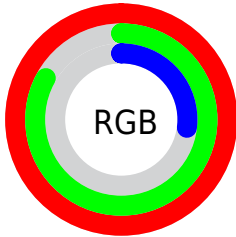
# Details

The Yxy color **68.7892, 0.4384, 0.4577** 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 **20.3538, 0.1840, 0.1414**, and the grayscale version is **63.9608, 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 **65.6258, 0.4519, 0.4649**, and if you desaturate by 10%, it is **72.2047, 0.4224, 0.4460**.

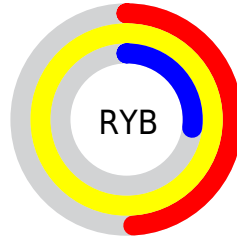
# Distribution



Red (100%)

Green (83%)

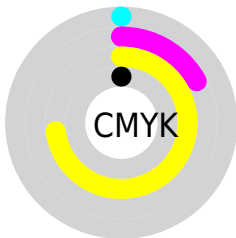
Blue (27%)



Red (49%)

Yellow (100%)

Blue (27%)

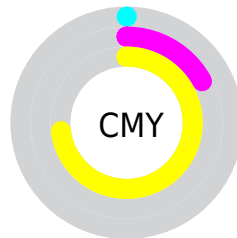


Cyan (0%)

Magenta (17%)

Yellow (73%)

Black (0%)



Cyan (0%)

Magenta (17%)


Yellow (73%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 68.7892, 0.4384, 0.4577 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 68.7892, 0.4384, 0.4577 by changing the saturation by 10% instead.



 68.7892, 0.4384,  
0.4577


 68.7892, 0.4384,  
0.4577


456.2871, 0.3852,  
0.4036


 50.5401, 0.4482,  
0.4676


 117.4804, 0.4216,  
0.4407

 35.8427, 0.4589,  
0.4782


 148.6913, 0.4146,  
0.4336


 24.3127, 0.4701,  
0.4892


 184.9916, 0.4083,  
0.4272

 15.5658, 0.4815,  
0.5002

 226.7656, 0.4026,  
0.4214

 9.2174, 0.4911,  
0.5089

 274.3978, 0.3976,  
0.4163

 4.8833, 0.4920,  
0.5080

328.2725, 0.3930,

 2.1789, 0.4934,

0.4116

0.5066

388.7741, 0.3889,  
0.4074

■ 0.7085, 0.4974,  
0.5026

■ 0.0000, 0.0000,  
0.0000

■ 68.7892, 0.4384,  
0.4577

■ 68.7892, 0.4384,  
0.4577

■ 65.6258, 0.4519,  
0.4649

■ 72.2047, 0.4224,  
0.4460

■ 62.6847, 0.4624,  
0.4672

■ 75.8789, 0.4047,  
0.4306

■ 60.6078, 0.4685,  
0.4662

■ 79.8295, 0.3862,  
0.4127

■ 84.0694, 0.3676,  
0.3931

■ 88.6107, 0.3495,  
0.3730

■ 93.4641, 0.3324,  
0.3530

■ 98.6401, 0.3165,  
0.3337

■ 99.9978, 0.3127,  
0.3290

# Harmonies

## Analogous

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



68.7892, 0.4820, 0.3985



68.7892, 0.4384, 0.4577



68.7892, 0.3650, 0.4918

# Triad

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



68.7892, 0.4384, 0.4577



68.7892, 0.1728, 0.2881



68.7892, 0.3248, 0.2309

# Complementary

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



68.7892, 0.4384, 0.4577



20.3538, 0.1840, 0.1414

# 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.



68.7892, 0.2434, 0.2038



68.7892, 0.4384, 0.4577



68.7892, 0.1660, 0.2270

# Square

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



68.7892, 0.4384, 0.4577



68.7892, 0.2124, 0.3809



68.7892, 0.1895, 0.2010



68.7892, 0.4146, 0.2774



# Rectangle

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



68.7892, 0.4384, 0.4577



68.7892, 0.3096, 0.4830



68.7892, 0.1895, 0.2010



68.7892, 0.2953, 0.2194

# Sweetspot

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



68.7925, 0.4384, 0.4577



88.8585, 0.3486, 0.3720



26.8487, 0.5063, 0.2928



18.7483, 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.



68.7925, 0.4384, 0.4577



64.2845, 0.4570, 0.4665



85.0330, 0.3744, 0.5116



20.3326, 0.3275, 0.3471



31.9112, 0.4675, 0.4670



3.2724, 0.4609, 0.4723



# Inverse Universe

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



20.3538, 0.1840, 0.1414



13.9993, 0.1659, 0.1060



15.5631, 0.1999, 0.1115



18.0629, 0.2979, 0.3102



5.6084, 0.1570, 0.0851



0.7039, 0.1626, 0.1053



# Previews

## White Background



This preview shows how the Yxy color 68.7892, 0.4384, 0.4577 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 68.7892, 0.4384, 0.4577 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 68.7892, 0.4384, 0.4577**

## **Background**



This preview shows how black text looks on a background with the Yxy color 68.7892, 0.4384, 0.4577.



This preview shows how white text looks on a background with the Yxy color 68.7892, 0.4384, 0.4577.

# 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

68.7892, 0.4384, 0.4577

### Protanopia

68.9579, 0.4242, 0.4675

### Deuteranopia

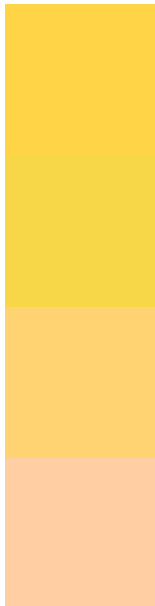
68.7250, 0.4006, 0.4007



## Tritanopia

68.8269, 0.3451, 0.3179

# Trichromacy



## Original Color

68.7892, 0.4384, 0.4577

## Protanomaly

68.8300, 0.4296, 0.4635

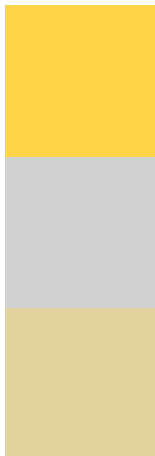
## Deuteranomaly

68.5681, 0.4169, 0.4246

## Tritanomaly

68.0112, 0.3848, 0.3748

# Monochromacy



## Original Color

68.7892, 0.4384, 0.4577

## 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 68.7892, 0.4384, 0.4577 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, 70)` looks like.

```
.text, #text, p{  
    color:rgb(255, 212, 70)  
}
```

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, 70) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 212, 70) }
```

## Border

The CSS property to change the border of an element to Yxy 68.7892, 0.4384, 0.4577 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, 70) }
```

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

```
.border{ border-color:rgb(255, 212, 70) }
```

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, 70) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 212, 70); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 212, 70);  
box-shadow:4px 4px 4px 4px rgb(255, 212,  
70) }
```



# Background

The CSS property to change the background color of an element to  $\text{Yxy } 68.7892, 0.4384, 0.4577$  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, 70) }
```

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

```
.background{ background-color: rgb(255,  
212, 70) }
```

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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