

# Converting Colors

$Y_{xy}(65.7598, 0.4276, 0.4298)$

Have a look what the booklet for  
Yxy(65.7598, 0.4276, 0.4298)  
contains.

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# Color

**Yxy(65.8820, 0.4274, 0.4301)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFCD66
RGB	255, 205, 102
RGB Percent	100%, 80%, 40%
CMY	0.0000, 0.1960, 0.6001
CMYK	0.00, 0.20, 0.60, 0.00
HSL	40°, 100%, 70%
HSV	40°, 60%, 100%
XYZ	65.4684, 65.8820, 21.8279
YIQ	208.2080, 62.8630, -21.4330

# Conversions

## Conversions Part 2

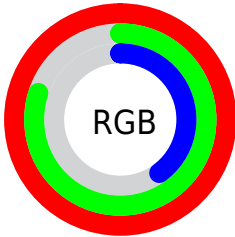
Format	Color
R <sub>Y</sub> B	176, 255, 102
Decimal	16764262
CIE Lab	84.94, 6.50, 56.98
CIE LCh	85, 57.345, 83.490
Yxy	65.8820, 0.4274, 0.4301
Android (android.graphics.Color)	4294954342 (0xFFFFCD66)
YUV	208.2080, -52.3605, 41.0366
Hunter-Lab	81.1677, 1.9313, 40.8729

# Details

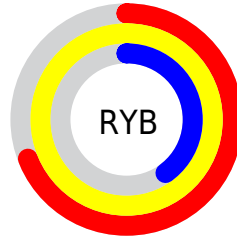
The Yxy color **65.8820, 0.4274, 0.4301** is a light color, and the websafe version is hex **FFCC66**. A complement of this color would be **32.4873, 0.2090, 0.1954**, and the grayscale version is **63.5345, 0.3127, 0.3290**.

A 20% lighter version of the original color is **95.1803, 0.3712, 0.4256**, and **33.9571, 0.4505, 0.4483** is the 20% darker color. If you saturate the color by 10%, you get **61.5746, 0.4476, 0.4413**, and if you desaturate by 10%, it is **70.5635, 0.4063, 0.4156**.

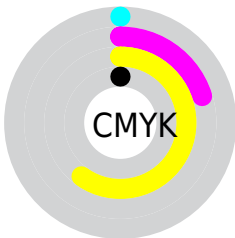
# Distribution



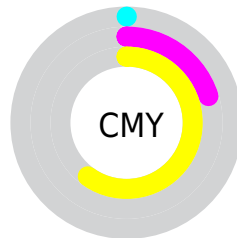
- Red (100%)
- Green (80%)
- Blue (40%)



- Red (69%)
- Yellow (100%)
- Blue (40%)



- Cyan (0%)
- Magenta (20%)
- Yellow (60%)
- Black (0%)




- Cyan (0%)
- Magenta (20%)
- Yellow (60%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 65.8820, 0.4274, 0.4301 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 65.8820, 0.4274, 0.4301 by changing the saturation by 10% instead.




 65.8820, 0.4274,  
0.4301


 65.8820, 0.4274,  
0.4301


445.9548, 0.3759,  
0.3863


 48.1766, 0.4381,  
0.4387


 113.3170, 0.4103,  
0.4159


 33.9668, 0.4505,  
0.4484


 143.8153, 0.4034,  
0.4101

 22.8681, 0.4648,  
0.4591


 179.3468, 0.3973,  
0.4049

 14.4961, 0.4808,  
0.4701

 220.2958, 0.3920,  
0.4003

 8.4665, 0.5025,  
0.4844

267.0467, 0.3873,  
0.3962

 4.3949, 0.5144,  
0.4856

319.9839, 0.3831,

 1.8968, 0.5230,

0.3926

0.4770

379.4918, 0.3793,  
0.3893

■ 0.5465, 0.5538,  
0.4462

■ 0.0000, 0.0000,  
0.0000

■ 65.8820, 0.4274,  
0.4301

■ 65.8820, 0.4274,  
0.4301

■ 61.5746, 0.4476,  
0.4413

■ 70.5635, 0.4063,  
0.4156

■ 57.6138, 0.4657,  
0.4480


■ 75.6257, 0.3853,  
0.3990

■ 53.9816, 0.4810,  
0.4497

■ 81.0864, 0.3650,  
0.3813

■ 50.6495, 0.4932,  
0.4466

■ 86.9593, 0.3460,  
0.3634

 93.2571, 0.3286,  
0.3458

99.9918, 0.3127,  
0.3290

99.9999, 0.3127,  
0.3290

# Harmonies

## Analogous

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



65.8820, 0.4542, 0.3810



65.8820, 0.4274, 0.4301



65.8820, 0.3711, 0.4591

# Triad

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



65.8820, 0.4274, 0.4301



65.8820, 0.2004, 0.3103



65.8820, 0.3099, 0.2410

# Complementary

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



65.8820, 0.4274, 0.4301



32.4873, 0.2090, 0.1954

# 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.



65.8820, 0.2456, 0.2216



65.8820, 0.4274, 0.4301



65.8820, 0.1885, 0.2533

# Square

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



65.8820, 0.4274, 0.4301



65.8820, 0.2404, 0.3853



65.8820, 0.2039, 0.2245



65.8820, 0.3829, 0.2785



# Rectangle

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



65.8820, 0.4274, 0.4301



65.8820, 0.3256, 0.4557



65.8820, 0.2039, 0.2245



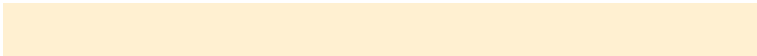
65.8820, 0.2865, 0.2323

# Sweetspot

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



65.8852, 0.4274, 0.4301



88.1917, 0.3424, 0.3598



33.0562, 0.4363, 0.2788



18.4963, 0.3477, 0.3650



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.



65.8852, 0.4274, 0.4301



60.7599, 0.4514, 0.4430



89.2181, 0.3799, 0.4799



20.0317, 0.3277, 0.3450



26.7494, 0.4917, 0.4478



2.8039, 0.4813, 0.4560



# Inverse Universe

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



32.4873, 0.2090, 0.1954



24.9092, 0.1902, 0.1643



21.2656, 0.2109, 0.1418



18.3468, 0.2979, 0.3125



7.2700, 0.1627, 0.1058



0.8973, 0.1689, 0.1281



# Previews

## White Background



This preview shows how the Yxy color 65.8820, 0.4274, 0.4301 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 65.8820, 0.4274, 0.4301 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 65.8820, 0.4274, 0.4301**

## **Background**



This preview shows how black text looks on a background with the Yxy color 65.8820, 0.4274, 0.4301.



This preview shows how white text looks on a background with the Yxy color 65.8820, 0.4274, 0.4301.

# 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

65.8820, 0.4274, 0.4301

### Protanopia

66.2501, 0.4051, 0.4432

### Deuteranopia

65.9780, 0.4117, 0.4074



## Tritanopia

65.7960, 0.3501, 0.3168

# Trichromacy



## Original Color

65.8820, 0.4274, 0.4301

## Protanomaly

65.9497, 0.4131, 0.4386

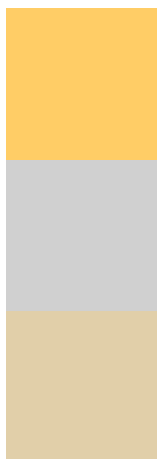
## Deuteranomaly

65.7537, 0.4178, 0.4156

## Tritanomaly

65.4708, 0.3807, 0.3604

# Monochromacy



## Original Color

65.8820, 0.4274, 0.4301

## Achromatopsia

63.0757, 0.3127, 0.3290

## Achromatomaly

63.4978, 0.3547, 0.3721

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 65.8820, 0.4274, 0.4301 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, 205, 102)` looks like.

```
.text, #text, p{  
    color:rgb(255, 205, 102)  
}
```

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, 205, 102) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 205, 102) }
```

## Border

The CSS property to change the border of an element to Yxy 65.8820, 0.4274, 0.4301 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, 205, 102) }
```

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

```
.border{ border-color:rgb(255, 205, 102) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 205, 102)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 205, 102); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 205, 102);  
box-shadow:4px 4px 4px 4px rgb(255, 205,  
102) }
```



# Background

The CSS property to change the background color of an element to Yxy 65.8820, 0.4274, 0.4301 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 205, 102) }
```

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

```
.background{ background-color: rgb(255,  
205, 102) }
```

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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