

# Converting Colors

$Y_{xy}(62.7302, 0.4641, 0.4697)$

Have a look what the booklet for  
Yxy(62.7302, 0.4641, 0.4697)  
contains.

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# **Color**

**Yxy(62.5686, 0.4644, 0.4695)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFC800
RGB	255, 200, 0
RGB Percent	100%, 78%, 0%
CMY	0.0001, 0.2156, 1.0000
CMYK	0.00, 0.22, 1.00, 0.00
HSL	47°, 100%, 50%
HSV	47°, 100%, 100%
XYZ	61.8889, 62.5686, 8.8089
YIQ	193.6450, 96.9800, -50.5400

# Conversions

## Conversions Part 2

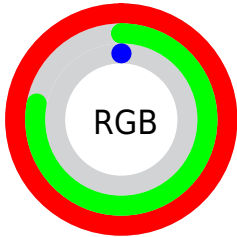
Format	Color
R <sub>Y</sub> B	70, 255, 0
Decimal	16762880
CIE Lab	83.21, 5.72, 84.56
CIE LCh	83, 84.753, 86.129
Yxy	62.5686, 0.4644, 0.4695
Android (android.graphics.Color)	4294952960 (0xFFFFC800)
YUV	193.6450, -95.4670, 53.8083
Hunter-Lab	79.1003, 1.2348, 48.7675

# Details

The Yxy color **62.5686, 0.4644, 0.4695** 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 **9.9483, 0.1555, 0.0797**, and the grayscale version is **54.2619, 0.3127, 0.3290**.

A 20% lighter version of the original color is **93.4519, 0.4038, 0.4797**, and **32.2049, 0.4690, 0.4658** is the 20% darker color. If you saturate the color by 10%, you get **62.5721, 0.4644, 0.4695**, and if you desaturate by 10%, it is **65.2369, 0.4565, 0.4700**.

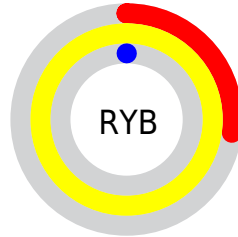
# Distribution



Red (100%)

Green (78%)

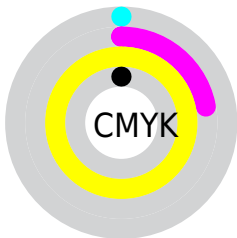
Blue (0%)



Red (27%)

Yellow (100%)

Blue (0%)

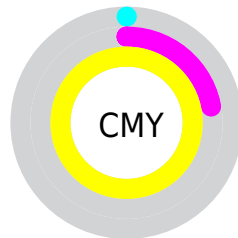


Cyan (0%)

Magenta (22%)

Yellow (100%)

Black (0%)



Cyan (0%)

Magenta (22%)

Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 62.5686, 0.4644, 0.4695 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 62.5686, 0.4644, 0.4695 by changing the saturation by 10% instead.





 62.5686, 0.4644,  
0.4695

 62.5686, 0.4644,  
0.4695


434.0021, 0.4022,  
0.4144

 45.4923, 0.4747,  
0.4778


 108.5469, 0.4457,  
0.4536

 31.8454, 0.4852,  
0.4856


 138.2177, 0.4375,  
0.4464

 21.2434, 0.4957,  
0.4926


 172.8554, 0.4301,  
0.4398

 13.3020, 0.5039,  
0.4961

 212.8445, 0.4234,  
0.4337

 7.6369, 0.5073,  
0.4927

 258.5693, 0.4173,  
0.4282

 3.8635, 0.5123,  
0.4877


 310.4143, 0.4118,

 1.5975, 0.5206,


0.4232

0.4794


368.7637, 0.4068,  
0.4186


 0.3559, 0.5732,  
0.4268


 0.0000, 0.0000,  
0.0000

 62.5686, 0.4644,  
0.4695


 62.5686, 0.4644,  
0.4695

 62.5721, 0.4644,  
0.4695

 65.2369, 0.4565,  
0.4700

 68.0884, 0.4459,  
0.4662

 71.1564, 0.4324,  
0.4576

 74.4595, 0.4165,  
0.4446

■ 78.0133, 0.3990,  
0.4282

■ 81.8317, 0.3809,  
0.4094

■ 85.9270, 0.3626,  
0.3893

■ 90.3106, 0.3450,  
0.3688

■ 94.9932, 0.3283,  
0.3485

# Harmonies

## Analogous

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



62.5686, 0.5157, 0.3963



62.5686, 0.4644, 0.4695



62.5686, 0.3786, 0.5238

# Triad

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



62.5686, 0.4644, 0.4695



62.5686, 0.1510, 0.2860



62.5686, 0.3151, 0.2099

# Complementary

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



62.5686, 0.4644, 0.4695



9.9483, 0.1555, 0.0797

# 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.



62.5686, 0.2219, 0.1816



62.5686, 0.4644, 0.4695



62.5686, 0.1414, 0.2114

# Square

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



62.5686, 0.4644, 0.4695



62.5686, 0.1984, 0.4042



62.5686, 0.1646, 0.1803



62.5686, 0.4259, 0.2608



# Rectangle

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



62.5686, 0.4644, 0.4695



62.5686, 0.3139, 0.5244



62.5686, 0.1646, 0.1803



62.5686, 0.2805, 0.1977

# Sweetspot

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



62.5721, 0.4644, 0.4695



85.9400, 0.3626, 0.3893



21.5350, 0.6072, 0.3118



18.0177, 0.3703, 0.3979



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.



62.5721, 0.4644, 0.4695



62.5816, 0.4644, 0.4695



81.5442, 0.3691, 0.5451



20.3869, 0.3275, 0.3475



32.9282, 0.4635, 0.4702



3.3634, 0.4574, 0.4750



# Inverse Universe

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



9.9483, 0.1555, 0.0797



9.9497, 0.1555, 0.0797



8.6061, 0.1666, 0.0691



18.0124, 0.2979, 0.3098



5.3744, 0.1561, 0.0820



0.6745, 0.1616, 0.1017



# Previews

## White Background



This preview shows how the Yxy color 62.5686, 0.4644, 0.4695 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

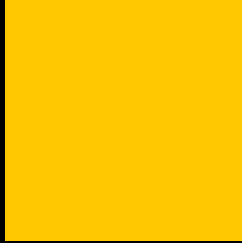
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 62.5686, 0.4644, 0.4695 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 62.5686, 0.4644, 0.4695**

## Background



This preview shows how black text looks on a background with the Yxy color 62.5686, 0.4644, 0.4695.



This preview shows how white text looks on a background with the Yxy color 62.5686, 0.4644, 0.4695.

# 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

62.5686, 0.4644, 0.4695

### Protanopia

62.6307, 0.4396, 0.4869

### Deuteranopia

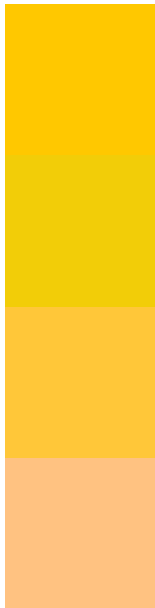
62.3694, 0.4399, 0.4338



## Tritanopia

62.3512, 0.3572, 0.3167

# Trichromacy



**Original Color**

62.5686, 0.4644, 0.4695

**Protanomaly**

62.5574, 0.4490, 0.4802

**Deuteranomaly**

62.4023, 0.4541, 0.4541

**Tritanomaly**

61.4286, 0.4157, 0.3959

# Monochromacy



**Original Color**

62.5686, 0.4644, 0.4695

**Achromatopsia**

53.9479, 0.3127, 0.3290

**Achromatomaly**

55.5088, 0.3857, 0.4146

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 62.5686, 0.4644, 0.4695 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, 200, 0)` looks like.

```
.text, #text, p{  
    color:rgb(255, 200, 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, 200, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 200, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 62.5686, 0.4644, 0.4695 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, 200, 0) }
```

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

```
.border{ border-color:rgb(255, 200, 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, 200, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 200, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 200, 0);  
box-shadow:4px 4px 4px 4px rgb(255, 200,  
0) }
```



# Background

The CSS property to change the background color of an element to Yxy 62.5686, 0.4644, 0.4695 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 200, 0) }
```

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

```
.background{ background-color: rgb(255,  
200, 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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