

# Converting Colors

$Y_{xy}(72.4426, 0.5245, 0.4505)$

Have a look what the booklet for  
Yxy(72.4426, 0.5245, 0.4505)  
contains.

<b>Yxy(60.2902, 0.4692, 0.4656)</b> .....	3
<b>Conversions</b> .....	4
<b>Details</b> .....	6
<b>Harmonies</b> .....	12
<b>Previews</b> .....	24
<b>Color Blindness Simulation</b> .....	27
<b>CSS Examples</b> .....	30

# Color

**Yxy(60.2902, 0.4692, 0.4656)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFC300
RGB	255, 195, 0
RGB Percent	100%, 76%, 0%
CMY	0.0000, 0.2353, 0.9989
CMYK	0.00, 0.24, 1.00, 0.00
HSL	46°, 100%, 50%
HSV	46°, 100%, 100%
XYZ	60.7564, 60.2902, 8.4427
YIQ	190.7100, 98.3550, -47.9250

# Conversions

## Conversions Part 2

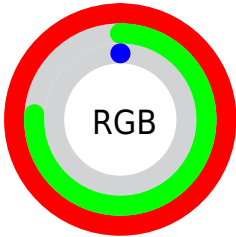
Format	Color
R <sub>Y</sub> B	78, 255, 0
Decimal	16761600
CIE Lab	82.00, 8.32, 83.67
CIE LCh	82, 84.086, 84.323
Yxy	60.2902, 0.4692, 0.4656
Android (android.graphics.Color)	4294951680 (0xFFFFC300)
YUV	190.7100, -94.0200, 56.3823
Hunter-Lab	77.6468, 3.7893, 47.9060

# Details

The Yxy color **60.2902, 0.4692, 0.4656** 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 **10.4836, 0.1565, 0.0834**, and the grayscale version is **52.4572, 0.3127, 0.3290**.

A 20% lighter version of the original color is **90.9102, 0.4065, 0.4776**, and **30.6835, 0.4754, 0.4607** is the 20% darker color. If you saturate the color by 10%, you get **60.2617, 0.4693, 0.4656**, and if you desaturate by 10%, it is **63.1123, 0.4606, 0.4665**.

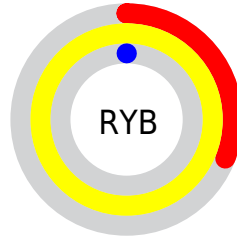
# Distribution



Red (100%)

Green (76%)

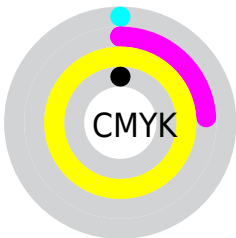
Blue (0%)



Red (31%)

Yellow (100%)

Blue (0%)

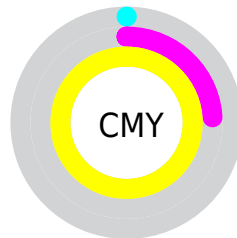


Cyan (0%)

Magenta (24%)

Yellow (100%)

Black (0%)



Cyan (0%)

Magenta (24%)

Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 60.2902, 0.4692, 0.4656 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 60.2902, 0.4692, 0.4656 by changing the saturation by 10% instead.



 60.2902, 0.4692,  
0.4656

 60.2902, 0.4692,  
0.4656


425.6666, 0.4042,  
0.4124


 43.6526, 0.4802,  
0.4733

 105.2505, 0.4495,  
0.4504

 30.3975, 0.4914,  
0.4804


 134.3420, 0.4409,  
0.4435

 20.1405, 0.5032,  
0.4867

 168.3536, 0.4332,  
0.4371

 12.4972, 0.5118,  
0.4882

 207.6697, 0.4262,  
0.4313

 7.0832, 0.5169,  
0.4831

 252.6746, 0.4198,  
0.4259

 3.5142, 0.5244,  
0.4756

 303.7528, 0.4141,

 1.4057, 0.5372,

0.4210

0.4628

361.2887, 0.4089,  
0.4165

■ 0.2209, 0.6515,  
0.3485

■ 0.0000, 0.0000,  
0.0000

■ 60.2902, 0.4692,  
0.4656

■ 60.2902, 0.4692,  
0.4656

■ 60.2617, 0.4693,  
0.4656

■ 63.1123, 0.4606,  
0.4665

■ 66.1359, 0.4492,  
0.4630

■ 69.3935, 0.4348,  
0.4546

■ 72.9040, 0.4182,  
0.4419

■ 76.6833, 0.4001,  
0.4258

■ 80.7454, 0.3814,  
0.4074

■ 85.1031, 0.3629,  
0.3877

■ 89.7680, 0.3450,  
0.3676

■ 94.7510, 0.3281,  
0.3478

# Harmonies

## Analogous

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



60.2902, 0.5179, 0.3919



60.2902, 0.4692, 0.4656



60.2902, 0.3844, 0.5227

# Triad

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



60.2902, 0.4692, 0.4656



60.2902, 0.1522, 0.2919



60.2902, 0.3086, 0.2071

# Complementary

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



60.2902, 0.4692, 0.4656



10.4836, 0.1565, 0.0834

# 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.



60.2902, 0.2170, 0.1803



60.2902, 0.4692, 0.4656



60.2902, 0.1405, 0.2141

# Square

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



60.2902, 0.4692, 0.4656



60.2902, 0.2020, 0.4122



60.2902, 0.1618, 0.1807



60.2902, 0.4200, 0.2569



# Rectangle

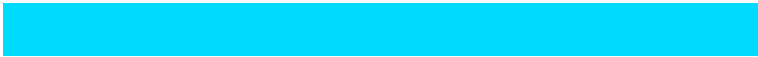
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



60.2902, 0.4692, 0.4656



60.2902, 0.3197, 0.5271



60.2902, 0.1618, 0.1807



60.2902, 0.2744, 0.1953

# Sweetspot

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



60.2932, 0.4692, 0.4656



85.0519, 0.3631, 0.3879



21.6360, 0.5972, 0.3064



17.8038, 0.3708, 0.3963



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.



60.2932, 0.4692, 0.4656



60.2621, 0.4693, 0.4656



82.6385, 0.3749, 0.5405



20.3227, 0.3275, 0.3471



31.7292, 0.4683, 0.4664



3.2561, 0.4615, 0.4718



# Inverse Universe

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



10.4836, 0.1565, 0.0834



10.4583, 0.1565, 0.0832



8.3152, 0.1631, 0.0673



18.0721, 0.2979, 0.3103



5.6530, 0.1571, 0.0856



0.7094, 0.1628, 0.1060



# Previews

## White Background



This preview shows how the Yxy color 60.2902, 0.4692, 0.4656 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

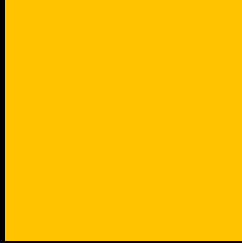
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 60.2902, 0.4692, 0.4656 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 60.2902, 0.4692, 0.4656**

## **Background**



This preview shows how black text looks on a background with the Yxy color 60.2902, 0.4692, 0.4656.



This preview shows how white text looks on a background with the Yxy color 60.2902, 0.4692, 0.4656.

# 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

60.2902, 0.4692, 0.4656

### Protanopia

60.5147, 0.4390, 0.4871

### Deuteranopia

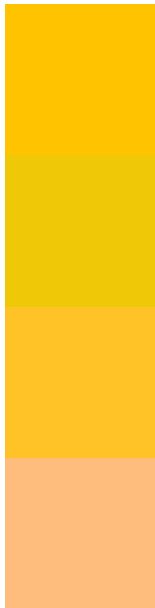
60.1805, 0.4568, 0.4479



## Tritanopia

60.4090, 0.3622, 0.3177

# Trichromacy



**Original Color**

60.2902, 0.4692, 0.4656

**Protanomaly**

60.1415, 0.4503, 0.4791

**Deuteranomaly**

59.9901, 0.4642, 0.4573

**Tritanomaly**

59.1359, 0.4216, 0.3949

# Monochromacy



**Original Color**

60.2902, 0.4692, 0.4656

**Achromatopsia**

52.0996, 0.3127, 0.3290

**Achromatomaly**

53.4006, 0.3866, 0.4121

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 60.2902, 0.4692, 0.4656 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, 195, 0)` looks like.

```
.text, #text, p{  
    color:rgb(255, 195, 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, 195, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 195, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 60.2902, 0.4692, 0.4656 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, 195, 0) }
```

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

```
.border{ border-color:rgb(255, 195, 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, 195, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 195, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 195, 0);  
box-shadow:4px 4px 4px 4px rgb(255, 195,  
0) }
```



# Background

The CSS property to change the background color of an element to Yxy 60.2902, 0.4692, 0.4656 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 195, 0) }
```

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

```
.background{ background-color: rgb(255,  
195, 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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor