

# Converting Colors

$Y_{xy}(59.7229, 0.4645, 0.4694)$

Have a look what the booklet for  
Yxy(59.7229, 0.4645, 0.4694)  
contains.

<b>Yxy(59.8038, 0.4644, 0.4694)</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(59.8038, 0.4644, 0.4694)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FAC400
RGB	250, 196, 0
RGB Percent	98%, 77%, 0%
CMY	0.0196, 0.2314, 0.9986
CMYK	0.00, 0.22, 1.00, 0.02
HSL	47°, 100%, 49%
HSV	47°, 100%, 98%
XYZ	59.1668, 59.8038, 8.4342
YIQ	189.8020, 95.1000, -49.5080

# Conversions

## Conversions Part 2

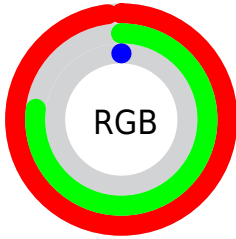
<b>Format</b>	<b>Color</b>
<b>RYB</b>	69, 250, 0
Decimal	16434176
CIELab	81.73, 5.67, 83.25
CIELCh	82, 83.439, 86.106
Yxy	59.8038, 0.4644, 0.4694
Android (android.graphics.Color)	4294624256 (0xFFFA400)
YUV	189.8020, -93.5724, 52.7936
Hunter-Lab	77.3329, 1.2363, 47.6667

# Details

The Yxy color **59.8038, 0.4644, 0.4694** 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 **9.5754, 0.1556, 0.0801**, and the grayscale version is **51.9054, 0.3127, 0.3290**.

A 20% lighter version of the original color is **91.5367, 0.4059, 0.4783**, and **30.3363, 0.4691, 0.4657** is the 20% darker color. If you saturate the color by 10%, you get **59.7721, 0.4645, 0.4694**, and if you desaturate by 10%, it is **62.3614, 0.4565, 0.4698**.

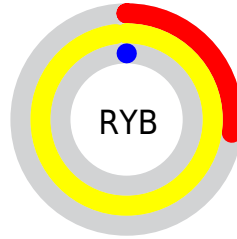
# Distribution



Red (98%)

Green (77%)

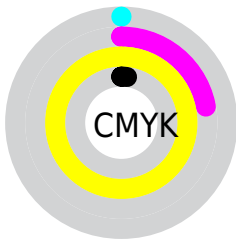
Blue (0%)



Red (27%)

Yellow (98%)

Blue (0%)

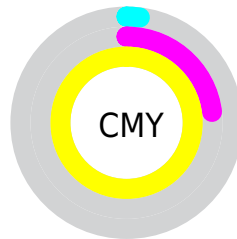


Cyan (0%)

Magenta (22%)

Yellow (100%)

Black (2%)



Cyan (2%)

Magenta (23%)


Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 59.8038, 0.4644, 0.4694 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 59.8038, 0.4644, 0.4694 by changing the saturation by 10% instead.





 59.8038, 0.4644,  
0.4694


 59.8038, 0.4644,  
0.4694


423.8742, 0.4016,  
0.4138

 43.2605, 0.4749,  
0.4778

 104.5450, 0.4454,  
0.4533

 30.0896, 0.4855,  
0.4857


 133.5117, 0.4371,  
0.4460

 19.9066, 0.4966,  
0.4931


 167.3883, 0.4296,  
0.4393

 12.3272, 0.5042,  
0.4958

 206.5593, 0.4229,  
0.4332

 6.9669, 0.5077,  
0.4923

 251.4090, 0.4167,  
0.4277

 3.4414, 0.5130,  
0.4870

 302.3217, 0.4112,

 1.3663, 0.5220,

0.4226

0.4780

359.6820, 0.4062,  
0.4180

■ 0.1917, 0.6258,  
0.3742

■ 0.0000, 0.0000,  
0.0000

■ 59.8038, 0.4644,  
0.4694

■ 59.8038, 0.4644,  
0.4694

■ 59.7721, 0.4645,  
0.4694

■ 62.3614, 0.4565,  
0.4698

■ 65.0956, 0.4458,  
0.4659

■ 68.0374, 0.4322,  
0.4572

■ 71.2044, 0.4162,  
0.4442

■ 74.6115, 0.3988,  
0.4278

■ 78.2718, 0.3806,  
0.4090

■ 82.1972, 0.3623,  
0.3889

■ 86.3985, 0.3447,  
0.3684

■ 90.8859, 0.3280,  
0.3482

# Harmonies

## Analogous

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



59.8038, 0.5157, 0.3962



59.8038, 0.4644, 0.4694



59.8038, 0.3786, 0.5237

# Triad

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



59.8038, 0.4644, 0.4694



59.8038, 0.1511, 0.2861



59.8038, 0.3150, 0.2099

# Complementary

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



59.8038, 0.4644, 0.4694



9.5754, 0.1556, 0.0801

# 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.



59.8038, 0.2219, 0.1817



59.8038, 0.4644, 0.4694



59.8038, 0.1415, 0.2115

# Square

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



59.8038, 0.4644, 0.4694



59.8038, 0.1985, 0.4043



59.8038, 0.1646, 0.1804



59.8038, 0.4257, 0.2608



# Rectangle

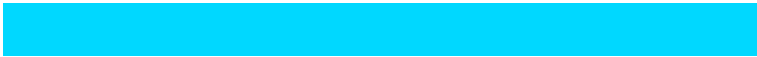
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



59.8038, 0.4644, 0.4694



59.8038, 0.3140, 0.5243



59.8038, 0.1646, 0.1804



59.8038, 0.2804, 0.1977

# Sweetspot

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



59.8068, 0.4644, 0.4694



85.9078, 0.3627, 0.3893



20.6026, 0.6066, 0.3116



18.0099, 0.3703, 0.3978



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.



59.8068, 0.4644, 0.4694



62.4964, 0.4645, 0.4693



77.9896, 0.3692, 0.5450



19.5161, 0.3274, 0.3475



31.9241, 0.4636, 0.4701



3.1093, 0.4572, 0.4751



# Inverse Universe

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



9.5754, 0.1556, 0.0801



9.9672, 0.1555, 0.0798



8.2526, 0.1668, 0.0693



17.2515, 0.2979, 0.3098



5.2342, 0.1562, 0.0823



0.6330, 0.1620, 0.1031



# Previews

## White Background



This preview shows how the Yxy color 59.8038, 0.4644, 0.4694 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 59.8038, 0.4644, 0.4694 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 59.8038, 0.4644, 0.4694**

## Background



This preview shows how black text looks on a background with the Yxy color 59.8038, 0.4644, 0.4694.



This preview shows how white text looks on a background with the Yxy color 59.8038, 0.4644, 0.4694.

# 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

59.8038, 0.4644, 0.4694

### Protanopia

60.0353, 0.4400, 0.4865

### Deuteranopia

59.6479, 0.4611, 0.4514



## Tritanopia

59.5722, 0.3627, 0.3156

# Trichromacy



## Original Color

59.8038, 0.4644, 0.4694

## Protanomaly

59.7953, 0.4487, 0.4804

## Deuteranomaly

59.5760, 0.4642, 0.4603

## Tritanomaly

58.3298, 0.4205, 0.3944

# Monochromacy



## Original Color

59.8038, 0.4644, 0.4694

## Achromatopsia

51.4918, 0.3127, 0.3290

## Achromatomaly

53.0768, 0.3856, 0.4138

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 59.8038, 0.4644, 0.4694 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(250, 196, 0)` looks like.

```
.text, #text, p{  
    color:rgb(250, 196, 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(250, 196, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(250, 196, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 59.8038, 0.4644, 0.4694 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(250, 196, 0) }
```

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

```
.border{ border-color:rgb(250, 196, 0) }
```

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

Here you see how a box with a 4 pixel rgb(250, 196, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(250, 196, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(250, 196, 0);  
box-shadow:4px 4px 4px 4px rgb(250, 196,  
0) }
```



# Background

The CSS property to change the background color of an element to Yxy 59.8038, 0.4644, 0.4694 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(250, 196, 0) }
```

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

```
.background{ background-color: rgb(250,  
196, 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