

# Converting Colors

$Y_{xy}(59.7173, 0.4664, 0.4591)$

Have a look what the booklet for  
Yxy(59.7173, 0.4664, 0.4591)  
contains.

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# **Color**

**Yxy(59.9479, 0.4659, 0.4595)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFC220
RGB	255, 194, 32
RGB Percent	100%, 76%, 13%
CMY	0.0001, 0.2391, 0.8746
CMYK	0.00, 0.24, 0.87, 0.00
HSL	44°, 100%, 56%
HSV	44°, 87%, 100%
XYZ	60.7829, 59.9479, 9.7326
YIQ	193.7710, 88.3580, -37.4500

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	116, 255, 32
Decimal	16761376
CIE Lab	81.81, 9.18, 79.21
CIE LCh	82, 79.744, 83.389
Yxy	59.9479, 0.4659, 0.4595
Android (android.graphics.Color)	4294951456 (0xFFFFC220)
YUV	193.7710, -79.7531, 53.6978
Hunter-Lab	77.4260, 4.6349, 46.7454

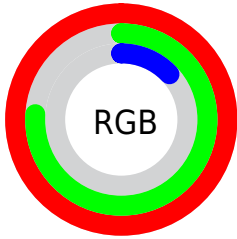
# Details

The Yxy color **59.9479, 0.4659, 0.4595** is a light color, and the websafe version is hex **FFCC33**.

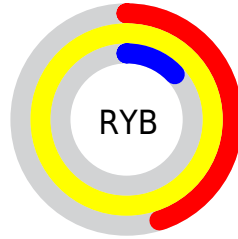
The color can be described as light washed yellow. A complement of this color would be **15.3413, 0.1680, 0.1143**, and the grayscale version is **54.2479, 0.3127, 0.3290**.

A 20% lighter version of the original color is **90.4943, 0.4025, 0.4695**, and **30.3872, 0.4767, 0.4597** is the 20% darker color. If you saturate the color by 10%, you get **56.8308, 0.4765, 0.4586**, and if you desaturate by 10%, it is **63.3225, 0.4522, 0.4555**.

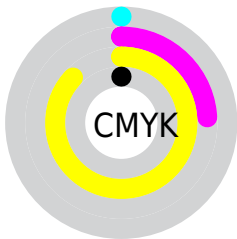
# Distribution



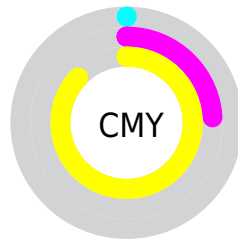
- Red (100%)
- Green (76%)
- Blue (13%)



- Red (45%)
- Yellow (100%)
- Blue (13%)



- Cyan (0%)
- Magenta (24%)
- Yellow (87%)
- Black (0%)



- Cyan (0%)
- Magenta (24%)
- Yellow (87%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 59.9479, 0.4659, 0.4595 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 59.9479, 0.4659, 0.4595 by changing the saturation by 10% instead.





 59.9479, 0.4659,  
0.4595

 59.9479, 0.4659,  
0.4595

424.4057, 0.4009,  
0.4078

 43.3766, 0.4774,  
0.4674

 104.7541, 0.4457,  
0.4444


 30.1807, 0.4895,  
0.4750

 133.7578, 0.4371,  
0.4377


 19.9758, 0.5018,  
0.4812


 167.6745, 0.4294,  
0.4315

 12.3775, 0.5144,  
0.4856

 206.8885, 0.4225,  
0.4258

 7.0013, 0.5200,  
0.4800

 251.7842, 0.4162,  
0.4206

 3.4629, 0.5284,  
0.4716

 302.7460, 0.4106,

 1.3779, 0.5425,

0.4159

360.1584, 0.4055,  
0.4117

0.4575

■ 0.2004, 0.6742,  
0.3258

■ 0.0000, 0.0000,  
0.0000

■ 59.9479, 0.4659,  
0.4595

■ 59.9479, 0.4659,  
0.4595

■ 56.8308, 0.4765,  
0.4586

■ 63.3225, 0.4522,  
0.4555

■ 56.0680, 0.4789,  
0.4579


■ 66.9694, 0.4357,  
0.4466


■ 70.9103, 0.4172,  
0.4335

■ 75.1613, 0.3978,  
0.4174

 79.7367, 0.3782,  
0.3993

 84.6497, 0.3591,  
0.3803

 89.9123, 0.3410,  
0.3611

 95.5358, 0.3243,  
0.3424

99.9933, 0.3127,  
0.3290

# Harmonies

## Analogous

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



59.9479, 0.5097, 0.3891



59.9479, 0.4659, 0.4595



59.9479, 0.3858, 0.5130

# Triad

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



59.9479, 0.4659, 0.4595



59.9479, 0.1596, 0.2976



59.9479, 0.3060, 0.2107

# Complementary

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



59.9479, 0.4659, 0.4595



15.3413, 0.1680, 0.1143

# 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.



59.9479, 0.2190, 0.1855



59.9479, 0.4659, 0.4595



59.9479, 0.1468, 0.2211

# Square

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



59.9479, 0.4659, 0.4595



59.9479, 0.2095, 0.4116



59.9479, 0.1664, 0.1870



59.9479, 0.4117, 0.2584



# Rectangle

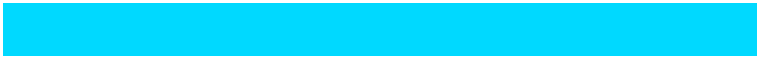
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



59.9479, 0.4659, 0.4595



59.9479, 0.3237, 0.5171



59.9479, 0.1664, 0.1870



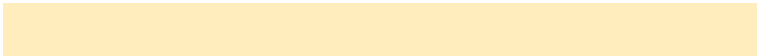
59.9479, 0.2736, 0.1995

# Sweetspot

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



59.9509, 0.4659, 0.4595



85.4196, 0.3564, 0.3775



23.1149, 0.5480, 0.2891



17.9068, 0.3629, 0.3842



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.



59.9509, 0.4659, 0.4595



56.0856, 0.4789, 0.4579



84.8171, 0.3830, 0.5270



20.2017, 0.3276, 0.3462



29.5678, 0.4777, 0.4589



3.0612, 0.4695, 0.4654



# Inverse Universe

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



15.3413, 0.1680, 0.1143



11.5623, 0.1585, 0.0906



9.9687, 0.1721, 0.0784



18.1855, 0.2979, 0.3112



6.2529, 0.1593, 0.0933



0.7815, 0.1652, 0.1147



# Previews

## White Background



This preview shows how the Yxy color 59.9479, 0.4659, 0.4595 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 59.9479, 0.4659, 0.4595 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 59.9479, 0.4659, 0.4595**

## Background



This preview shows how black text looks on a background with the Yxy color 59.9479, 0.4659, 0.4595.



This preview shows how white text looks on a background with the Yxy color 59.9479, 0.4659, 0.4595.

# 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

59.9479, 0.4659, 0.4595

### Protanopia

59.9651, 0.4355, 0.4817

### Deuteranopia

60.1390, 0.4584, 0.4499



## Tritanopia

59.9434, 0.3633, 0.3177

# Trichromacy



## Original Color

59.9479, 0.4659, 0.4595

## Protanomaly

59.6012, 0.4466, 0.4736

## Deuteranomaly

60.0570, 0.4616, 0.4540

## Tritanomaly

59.0040, 0.4134, 0.3832

# Monochromacy



## Original Color

59.9479, 0.4659, 0.4595

## Achromatopsia

53.9479, 0.3127, 0.3290

## Achromatomaly

54.9318, 0.3775, 0.3989

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 59.9479, 0.4659, 0.4595 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, 194, 32)` looks like.

```
.text, #text, p{  
    color:rgb(255, 194, 32)  
}
```

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, 194, 32) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 194, 32) }
```

## Border

The CSS property to change the border of an element to Yxy 59.9479, 0.4659, 0.4595 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, 194, 32) }
```

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

```
.border{ border-color:rgb(255, 194, 32) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 194, 32)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 194, 32); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 194, 32);  
box-shadow:4px 4px 4px 4px rgb(255, 194,  
32) }
```



# Background

The CSS property to change the background color of an element to Yxy 59.9479, 0.4659, 0.4595 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 194, 32) }
```

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

```
.background{ background-color: rgb(255,  
194, 32) }
```

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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