

# Converting Colors

$Y_{xy}(23.7389, 0.2948, 0.1953)$

Have a look what the booklet for  
Yxy(23.7389, 0.2948, 0.1953)  
contains.

<b>Yxy(23.7430, 0.2948, 0.1959)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

# Color

**Yxy(23.7430, 0.2948, 0.1959)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B963CF
RGB	185, 99, 207
RGB Percent	73%, 39%, 81%
CMY	0.2745, 0.6117, 0.1883
CMYK	0.11, 0.52, 0.00, 0.19
HSL	288°, 53%, 60%
HSV	288°, 52%, 81%
XYZ	35.7296, 23.7430, 61.7270
YIQ	137.0260, 16.5880, 51.8200

# Conversions

## Conversions Part 2

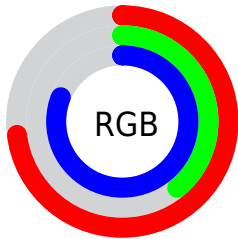
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	185, 99, 207
Decimal	12149711
CIE <sub>Lab</sub>	55.83, 51.25, -41.68
CIE <sub>LCh</sub>	56, 66.057, 320.875
Yxy	23.7430, 0.2948, 0.1959
Android (android.graphics.Color)	4290339791 (0xFFB963CF)
YUV	137.0260, 34.4972, 42.0732
Hunter-Lab	48.7268, 45.6159, -40.9996

# Details

The Yxy color **23.7430, 0.2948, 0.1959** is a light color, and the websafe version is hex **CC66CC**. A complement of this color would be **49.5897, 0.3191, 0.4876**, and the grayscale version is **24.8905, 0.3127, 0.3290**.

A 20% lighter version of the original color is **49.0572, 0.3074, 0.2271**, and **8.8881, 0.2845, 0.1611** is the 20% darker color. If you saturate the color by 10%, you get **19.7946, 0.2898, 0.1738**, and if you desaturate by 10%, it is **28.7140, 0.2994, 0.2205**.

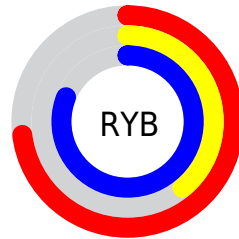
# Distribution



Red (73%)

Green (39%)

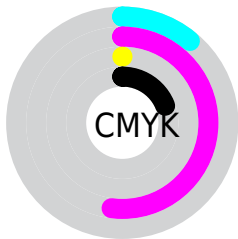
Blue (81%)



Red (73%)

Yellow (39%)

Blue (81%)

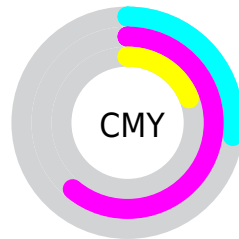


Cyan (11%)

Magenta (52%)

Yellow (0%)

Black (19%)



Cyan (27%)

Magenta (61%)

Yellow (19%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 23.7430, 0.2948, 0.1959 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 23.7430, 0.2948, 0.1959 by changing the saturation by 10% instead.





 23.7430, 0.2948,  
0.1959


 23.7430, 0.2948,  
0.1959


271.5186, 0.3071,  
0.2612


 15.1431, 0.2907,  
0.1805


 49.6105, 0.3000,  
0.2191


 8.9199, 0.2849,  
0.1613


 67.6469, 0.3018,  
0.2280

 4.6890, 0.2761,  
0.1372


 89.5975, 0.3031,  
0.2355

 2.0659, 0.2622,  
0.1064

 115.8468, 0.3042,  
0.2421

 0.6454, 0.2389,  
0.0660

146.7792, 0.3051,  
0.2478

 0.0000, 0.1996,  
0.0000

182.7790, 0.3059,

 0.0000, 0.0000,

0.2528

0.0000

224.2307, 0.3065,  
0.2572

■ 23.7430, 0.2948,  
0.1959

■ 23.7430, 0.2948,  
0.1959

■ 19.7946, 0.2898,  
0.1738

■ 28.7140, 0.2994,  
0.2205

■ 16.7872, 0.2845,  
0.1551

■ 34.7749, 0.3034,  
0.2465

■ 14.6317, 0.2790,  
0.1407

■ 41.9905, 0.3069,  
0.2729

■ 13.2200, 0.2736,  
0.1309

■ 50.4200, 0.3099,  
0.2989

■ 12.4846, 0.2694,  
0.1258

■ 60.1183, 0.3123,  
0.3238

■ 71.1368, 0.3142,  
0.3472

■ 83.5243, 0.3157,  
0.3690

■ 91.0433, 0.3176,  
0.3797

■ 91.7048, 0.3203,  
0.3793

# Harmonies

## Analogous

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



23.7430, 0.2025, 0.1710



23.7430, 0.2948, 0.1959



23.7430, 0.4138, 0.2454

# Triad

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



23.7430, 0.2948, 0.1959



23.7430, 0.4849, 0.4617



23.7430, 0.1468, 0.3009

# Complementary

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



23.7430, 0.2948, 0.1959



49.5897, 0.3191, 0.4876

# 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.



23.7430, 0.2030, 0.4343



23.7430, 0.2948, 0.1959



23.7430, 0.3973, 0.5299

# Square

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



23.7430, 0.2948, 0.1959



23.7430, 0.5324, 0.3835



23.7430, 0.2953, 0.5347



23.7430, 0.1313, 0.2131



# Rectangle

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



23.7430, 0.2948, 0.1959



23.7430, 0.4841, 0.2879



23.7430, 0.2953, 0.5347



23.7430, 0.1607, 0.3423

# Sweetspot

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



23.7440, 0.2948, 0.1959



75.1317, 0.3087, 0.2885



21.1775, 0.2199, 0.1989



15.4796, 0.3081, 0.2831



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.



23.7440, 0.2948, 0.1959



30.8597, 0.2890, 0.1705



25.3409, 0.3539, 0.2356



11.8824, 0.3106, 0.3059



7.9074, 0.2702, 0.1262



0.4736, 0.2800, 0.1316



# Inverse Universe

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



23.5713, 0.4309, 0.3019



30.8623, 0.4747, 0.2983



48.8772, 0.2884, 0.4480



11.8471, 0.3259, 0.3243



8.4750, 0.6050, 0.3106



0.4855, 0.5536, 0.2823



# Previews

## White Background



This preview shows how the Yxy color 23.7430, 0.2948, 0.1959 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

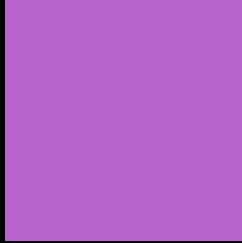
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the Yxy color 23.7430, 0.2948, 0.1959 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

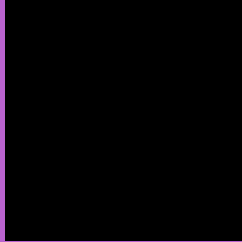
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 23.7430, 0.2948, 0.1959**

## Background



This preview shows how black text looks on a background with the Yxy color 23.7430, 0.2948, 0.1959.



This preview shows how white text looks on a background with the Yxy color 23.7430, 0.2948, 0.1959.

# 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

23.7430, 0.2948, 0.1959

### Protanopia

24.2672, 0.2022, 0.1811

### Deuteranopia

23.9352, 0.2299, 0.2234



## Tritanopia

23.7508, 0.3715, 0.3157

# Trichromacy



## Original Color

23.7430, 0.2948, 0.1959



## Protanomaly

22.7675, 0.2255, 0.1820



## Deuteranomaly

22.9731, 0.2486, 0.2093



## Tritanomaly

23.4876, 0.3414, 0.2652

# Monochromacy



## Original Color

23.7430, 0.2948, 0.1959



## Achromatopsia

25.0158, 0.3127, 0.3290



## Achromatomaly

23.6446, 0.3064, 0.2690

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 23.7430, 0.2948, 0.1959 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(185, 99, 207)` looks like.

```
.text, #text, p{  
    color:rgb(185, 99, 207)  
}
```

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(185, 99, 207) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(185, 99, 207) }
```

## Border

The CSS property to change the border of an element to Yxy 23.7430, 0.2948, 0.1959 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(185, 99, 207) }
```

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

```
.border{ border-color:rgb(185, 99, 207) }
```

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

Here you see how a box with a 4 pixel rgb(185, 99, 207) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(185, 99, 207); -webkit-box-  
shadow:4px 4px 4px 4px rgb(185, 99, 207);  
box-shadow:4px 4px 4px 4px rgb(185, 99,  
207) }
```



# Background

The CSS property to change the background color of an element to Yxy 23.7430, 0.2948, 0.1959 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(185, 99, 207) }
```

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

```
.background{ background-color: rgb(185, 99,  
207) }
```

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