

# Converting Colors

$Y_{xy}(50.2930, 0.3015, 0.2720)$

Have a look what the booklet for  
Yxy(50.2930, 0.3015, 0.2720)  
contains.

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# Color

**Yxy(50.0970, 0.3013, 0.2718)**

# Conversions

## Conversions Part 1

Format	Color
Hex	D1B0E2
RGB	209, 176, 226
RGB Percent	82%, 69%, 89%
CMY	0.1806, 0.3097, 0.1138
CMYK	0.08, 0.22, 0.00, 0.11
HSL	280°, 46%, 79%
HSV	280°, 22%, 89%
XYZ	55.5343, 50.0970, 78.6844
YIQ	191.5670, 3.6180, 22.5460

# Conversions

## Conversions Part 2

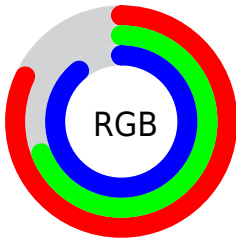
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	209, 176, 226
Decimal	13742306
CIE <sub>Lab</sub>	76.13, 20.89, -20.63
CIE <sub>LCh</sub>	76, 29.365, 315.361
Yxy	50.0970, 0.3013, 0.2718
Android (android.graphics.Color)	4291932386 (0xFFD1B0E2)
YUV	191.5670, 16.9755, 15.2887
Hunter-Lab	70.7792, 16.1898, -16.3665

# Details

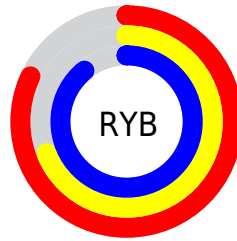
The Yxy color **50.0970, 0.3013, 0.2718** is a light color, and the websafe version is hex **CC99CC**. A complement of this color would be **68.8678, 0.3218, 0.3885**, and the grayscale version is **52.3430, 0.3127, 0.3290**.

A 20% lighter version of the original color is **86.1932, 0.3138, 0.3068**, and **23.9762, 0.2971, 0.2566** is the 20% darker color. If you saturate the color by 10%, you get **40.8639, 0.2947, 0.2441**, and if you desaturate by 10%, it is **60.8640, 0.3070, 0.2986**.

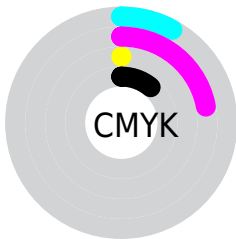
# Distribution



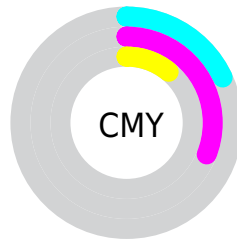
- Red (82%)
- Green (69%)
- Blue (89%)



- Red (82%)
- Yellow (69%)
- Blue (89%)



- Cyan (8%)
- Magenta (22%)
- Yellow (0%)
- Black (11%)




- Cyan (18%)
- Magenta (31%)
- Yellow (11%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 50.0970, 0.3013, 0.2718 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 50.0970, 0.3013, 0.2718 by changing the saturation by 10% instead.





 50.0970, 0.3013,  
0.2718

 50.0970, 0.3013,  
0.2718

387.0451, 0.3073,  
0.2988

 35.4905, 0.2997,  
0.2655


 90.3186, 0.3035,  
0.2813

 24.0409, 0.2977,  
0.2577


116.7024, 0.3044,  
0.2849

 15.3640, 0.2949,  
0.2477


147.7808, 0.3051,  
0.2881

 9.0752, 0.2910,  
0.2345

183.9382, 0.3057,  
0.2908

 4.7903, 0.2850,  
0.2163

225.5589, 0.3062,  
0.2932

 2.1248, 0.2752,  
0.1900

273.0274, 0.3066,

 0.6785, 0.2577,

0.2953

0.1463

326.7280, 0.3070,  
0.2972

0.0000, 0.0952,  
0.0000

0.0000, 0.0000,  
0.0000

50.0970, 0.3013,  
0.2718

50.0970, 0.3013,  
0.2718

40.8639, 0.2947,  
0.2441

60.8640, 0.3070,  
0.2986

33.0845, 0.2872,  
0.2162

73.2271, 0.3118,  
0.3239

26.6812, 0.2788,  
0.1892

87.2530, 0.3158,  
0.3474

21.5659, 0.2699,  
0.1644

95.4968, 0.3200,  
0.3580

■ 17.6405, 0.2606,  
0.1429

■ 96.8730, 0.3249,  
0.3576

■ 14.7922, 0.2513,  
0.1258

■ 98.2703, 0.3298,  
0.3572

■ 12.8853, 0.2423,  
0.1137

■ 11.8712, 0.2355,  
0.1071

# Harmonies

## Analogous

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



50.0970, 0.2659, 0.2640



50.0970, 0.3013, 0.2718



50.0970, 0.3421, 0.2926

# Triad

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



50.0970, 0.3013, 0.2718



50.0970, 0.3853, 0.3835



50.0970, 0.2522, 0.3313

# Complementary

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



50.0970, 0.3013, 0.2718



68.8678, 0.3218, 0.3885

# 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.



50.0970, 0.2813, 0.3698



50.0970, 0.3013, 0.2718



50.0970, 0.3583, 0.4000

# Square

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



50.0970, 0.3013, 0.2718



50.0970, 0.3924, 0.3547



50.0970, 0.3200, 0.3960



50.0970, 0.2391, 0.2952



# Rectangle

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



50.0970, 0.3013, 0.2718



50.0970, 0.3665, 0.3116



50.0970, 0.3200, 0.3960



50.0970, 0.2604, 0.3446

# Sweetspot

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



50.0991, 0.3013, 0.2718



87.9988, 0.3095, 0.3116



53.0907, 0.2771, 0.2894



18.6246, 0.3092, 0.3101



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.



50.0991, 0.3013, 0.2718



59.4761, 0.2981, 0.2578



52.3158, 0.3213, 0.2819



13.6894, 0.3084, 0.3055



6.8413, 0.2368, 0.1078



0.5230, 0.2500, 0.1151



# Inverse Universe

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



51.0812, 0.3426, 0.3096



61.0759, 0.3516, 0.3049



67.0597, 0.3052, 0.3811



13.7773, 0.3239, 0.3210



9.5507, 0.5603, 0.2860



0.6784, 0.5170, 0.2622



# Previews

## White Background



This preview shows how the Yxy color 50.0970, 0.3013, 0.2718 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

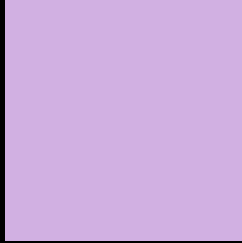
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 50.0970, 0.3013, 0.2718 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

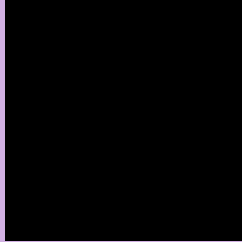
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 50.0970, 0.3013, 0.2718**

## **Background**



This preview shows how black text looks on a background with the Yxy color 50.0970, 0.3013, 0.2718.



This preview shows how white text looks on a background with the Yxy color 50.0970, 0.3013, 0.2718.

# 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

50.0970, 0.3013, 0.2718

### Protanopia

50.3481, 0.2726, 0.2723

### Deuteranopia

50.4086, 0.2857, 0.2798



## Tritanopia

49.8706, 0.3204, 0.3109

# Trichromacy



## Original Color

50.0970, 0.3013, 0.2718

## Protanomaly

49.9879, 0.2830, 0.2720

## Deuteranomaly

50.2198, 0.2918, 0.2771

## Tritanomaly

49.8670, 0.3134, 0.2958

# Monochromacy



## Original Color

50.0970, 0.3013, 0.2718

## Achromatopsia

52.7115, 0.3127, 0.3290

## Achromatomaly

51.4832, 0.3088, 0.3072

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 50.0970, 0.3013, 0.2718 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(209, 176, 226)` looks like.

```
.text, #text, p{  
    color:rgb(209, 176, 226)  
}
```

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(209, 176, 226) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(209, 176, 226) }
```

## Border

The CSS property to change the border of an element to Yxy 50.0970, 0.3013, 0.2718 is called "border". The border property can be set on classes, ids or directly on the HTML element.

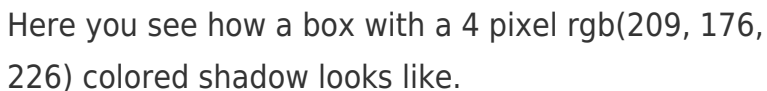
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(209, 176, 226) }
```

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

```
.border{ border-color:rgb(209, 176, 226) }
```

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



Here you see how a box with a 4 pixel `rgb(209, 176, 226)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(209, 176, 226); -webkit-box-shadow:4px 4px 4px 4px rgb(209, 176, 226); box-shadow:4px 4px 4px 4px rgb(209, 176, 226) }
```



# Background

The CSS property to change the background color of an element to Yxy 50.0970, 0.3013, 0.2718 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(209, 176, 226) }
```

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

```
.background{ background-color: rgb(209,  
176, 226) }
```

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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