

# Converting Colors

$Y_{xy}(49.9191, 0.2966, 0.2606)$

Have a look what the booklet for  
Yxy(49.9191, 0.2966, 0.2606)  
contains.

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# Color

**Yxy(50.0615, 0.2970, 0.2615)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	D3AEEA
RGB	211, 174, 234
RGB Percent	83%, 68%, 92%
CMY	0.1725, 0.3177, 0.0823
CMYK	0.10, 0.26, 0.00, 0.08
HSL	277°, 59%, 80%
HSV	277°, 26%, 92%
XYZ	56.8576, 50.0615, 84.5207
YIQ	191.9030, 2.7920, 26.5040

# Conversions

## Conversions Part 2

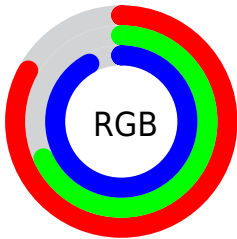
Format	Color
RYB	211, 174, 234
Decimal	13872874
CIELab	76.11, 24.28, -25.00
CIELCh	76, 34.854, 314.163
Yxy	50.0615, 0.2970, 0.2615
Android (android.graphics.Color)	4292062954 (0xFFD3AE EA)
YUV	191.9030, 20.7538, 16.7481
Hunter-Lab	70.7542, 19.6218, -21.2980

# Details

The Yxy color **50.0615, 0.2970, 0.2615** is a light color, and the websafe version is hex **CC99CC**. A complement of this color would be **73.7804, 0.3248, 0.3988**, and the grayscale version is **52.5307, 0.3127, 0.3290**.

A 20% lighter version of the original color is **85.0736, 0.3138, 0.3048**, and **23.9570, 0.2923, 0.2450** is the 20% darker color. If you saturate the color by 10%, you get **40.5083, 0.2891, 0.2331**, and if you desaturate by 10%, it is **61.2679, 0.3039, 0.2890**.

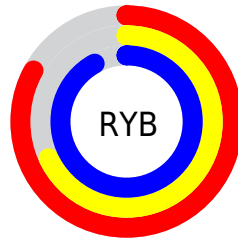
# Distribution



Red (83%)

Green (68%)

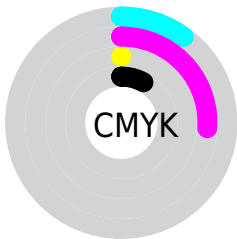
Blue (92%)



Red (83%)

Yellow (68%)

Blue (92%)

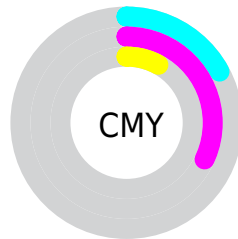


Cyan (10%)

Magenta (26%)

Yellow (0%)

Black (8%)



Cyan (17%)

Magenta (32%)


Yellow (8%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 50.0615, 0.2970, 0.2615 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 50.0615, 0.2970, 0.2615 by changing the saturation by 10% instead.





 50.0615, 0.2970,  
0.2615

 50.0615, 0.2970,  
0.2615

386.9064, 0.3053,  
0.2931

 35.4623, 0.2949,  
0.2542


 90.2660, 0.3001,  
0.2725

 24.0192, 0.2921,  
0.2452


116.6400, 0.3012,  
0.2768

 15.3479, 0.2884,  
0.2338


147.7078, 0.3022,  
0.2805

 9.0639, 0.2831,  
0.2189

183.8537, 0.3030,  
0.2837

 4.7829, 0.2753,  
0.1988

225.4621, 0.3037,  
0.2865

 2.1204, 0.2628,  
0.1702

272.9174, 0.3043,

 0.6761, 0.2408,

0.2889

0.1252

326.6041, 0.3048,  
0.2911

0.0000, 0.1223,  
0.0000

0.0000, 0.0000,  
0.0000

50.0615, 0.2970,  
0.2615

50.0615, 0.2970,  
0.2615

40.5083, 0.2891,  
0.2331

61.2679, 0.3039,  
0.2890

32.5191, 0.2801,  
0.2048

74.1980, 0.3098,  
0.3151

26.0057, 0.2704,  
0.1777

88.9261, 0.3148,  
0.3393

20.8683, 0.2601,  
0.1531

97.2146, 0.3198,  
0.3496

■ 16.9945, 0.2496,  
0.1322

■ 98.7215, 0.3250,  
0.3493

■ 14.2533, 0.2394,  
0.1162

■ 12.4832, 0.2297,  
0.1053

■ 11.9037, 0.2256,  
0.1017

# Harmonies

## Analogous

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



50.0615, 0.2561, 0.2528



50.0615, 0.2970, 0.2615



50.0615, 0.3455, 0.2850

# Triad

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



50.0615, 0.2970, 0.2615



50.0615, 0.3994, 0.3914



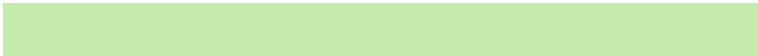
50.0615, 0.2425, 0.3331

# Complementary

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



50.0615, 0.2970, 0.2615



73.7804, 0.3248, 0.3988

# 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.



50.0615, 0.2769, 0.3796



50.0615, 0.2970, 0.2615



50.0615, 0.3677, 0.4129

# Square

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



50.0615, 0.2970, 0.2615



50.0615, 0.4072, 0.3567



50.0615, 0.3226, 0.4102



50.0615, 0.2266, 0.2898



# Rectangle

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



50.0615, 0.2970, 0.2615



50.0615, 0.3750, 0.3067



50.0615, 0.3226, 0.4102



50.0615, 0.2521, 0.3492

# Sweetspot

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



50.0636, 0.2970, 0.2615



86.2156, 0.3085, 0.3090



54.8735, 0.2711, 0.2846



17.9325, 0.3076, 0.3051



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.



50.0636, 0.2970, 0.2615



54.2130, 0.2928, 0.2460



53.3122, 0.3213, 0.2721



15.0090, 0.3077, 0.3053



6.7626, 0.2271, 0.1024



0.5860, 0.2399, 0.1095



# Inverse Universe

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



51.7960, 0.3466, 0.3035



56.7587, 0.3564, 0.2978



71.1899, 0.3052, 0.3934



15.1496, 0.3233, 0.3200



10.2640, 0.5443, 0.2772



0.8242, 0.5069, 0.2566



# Previews

## White Background



This preview shows how the Yxy color 50.0615, 0.2970, 0.2615 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

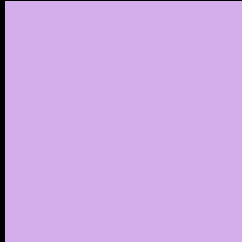
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 50.0615, 0.2970, 0.2615 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 50.0615, 0.2970, 0.2615**

## **Background**



This preview shows how black text looks on a background with the Yxy color 50.0615, 0.2970, 0.2615.



This preview shows how white text looks on a background with the Yxy color 50.0615, 0.2970, 0.2615.

# 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

50.0615, 0.2970, 0.2615

### Protanopia

50.4129, 0.2643, 0.2622

### Deuteranopia

50.2975, 0.2781, 0.2717



## Tritanopia

49.9670, 0.3220, 0.3121

# Trichromacy



## Original Color

50.0615, 0.2970, 0.2615

## Protanomaly

50.2527, 0.2755, 0.2622

## Deuteranomaly

49.9950, 0.2846, 0.2671

## Tritanomaly

49.7096, 0.3127, 0.2924

# Monochromacy



## Original Color

50.0615, 0.2970, 0.2615

## Achromatopsia

52.7115, 0.3127, 0.3290

## Achromatomaly

51.3450, 0.3074, 0.3026

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 50.0615, 0.2970, 0.2615 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(211, 174, 234)` looks like.

```
.text, #text, p{  
    color:rgb(211, 174, 234)  
}
```

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(211, 174, 234) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(211, 174, 234) }
```

## Border

The CSS property to change the border of an element to Yxy 50.0615, 0.2970, 0.2615 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(211, 174, 234) }
```

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

```
.border{ border-color:rgb(211, 174, 234) }
```

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

Here you see how a box with a 4 pixel `rgb(211, 174, 234)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(211, 174, 234); -webkit-box-  
shadow:4px 4px 4px 4px rgb(211, 174, 234);  
box-shadow:4px 4px 4px 4px rgb(211, 174,  
234) }
```



# Background

The CSS property to change the background color of an element to Yxy 50.0615, 0.2970, 0.2615 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(211, 174, 234) }
```

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

```
.background{ background-color: rgb(211,  
174, 234) }
```

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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