

# Converting Colors

$Y_{xy}(45.0748, 0.2956, 0.2605)$

Have a look what the booklet for  
Yxy(45.0748, 0.2956, 0.2605)  
contains.

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# Color

**Yxy(45.0718, 0.2962, 0.2609)**

# Conversions

## Conversions Part 1

Format	Color
Hex	C9A6E0
RGB	201, 166, 224
RGB Percent	79%, 65%, 88%
CMY	0.2119, 0.3489, 0.1216
CMYK	0.10, 0.26, 0.00, 0.12
HSL	276°, 48%, 76%
HSV	276°, 26%, 88%
XYZ	51.1701, 45.0718, 76.5132
YIQ	183.0770, 2.2420, 25.4580

# Conversions

## Conversions Part 2

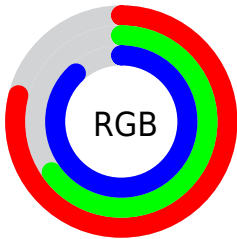
<b>Format</b>	<b>Color</b>
R <sub>YB</sub>	201, 166, 224
Decimal	13215456
CIE Lab	72.94, 23.39, -24.47
CIE LCh	73, 33.850, 313.715
Yxy	45.0718, 0.2962, 0.2609
Android (android.graphics.Color)	4291405536 (0xFFC9A6E0)
YUV	183.0770, 20.1750, 15.7185
Hunter-Lab	67.1355, 18.5638, -20.5769

# Details

The Yxy color  $45.0718, 0.2962, 0.2609$  is a light color, and the websafe version is hex  $CC99CC$ . A complement of this color would be  $66.8812, 0.3255, 0.3992$ , and the grayscale version is  $47.2843, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $80.1929, 0.3143, 0.2960$ , and  $21.0102, 0.2900, 0.2434$  is the 20% darker color. If you saturate the color by 10%, you get  $36.4291, 0.2879, 0.2324$ , and if you desaturate by 10%, it is  $55.2078, 0.3034, 0.2885$ .

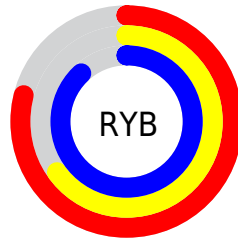
# Distribution



Red (79%)

Green (65%)

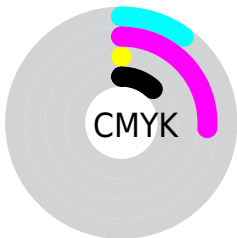
Blue (88%)



Red (79%)

Yellow (65%)

Blue (88%)

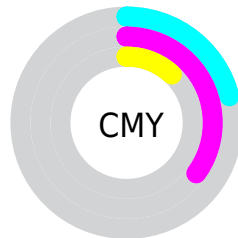


Cyan (10%)

Magenta (26%)

Yellow (0%)

Black (12%)



Cyan (21%)

Magenta (35%)


Yellow (12%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 45.0718, 0.2962, 0.2609 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 45.0718, 0.2962, 0.2609 by changing the saturation by 10% instead.





 45.0718, 0.2962,  
0.2609

 45.0718, 0.2962,  
0.2609


367.0643, 0.3050,  
0.2934

 31.5140, 0.2939,  
0.2533


 82.8281, 0.2995,  
0.2723

 20.9905, 0.2908,  
0.2438


 107.7955, 0.3007,  
0.2767

 13.1171, 0.2867,  
0.2316


137.3347, 0.3017,  
0.2805

 7.5092, 0.2808,  
0.2155

171.8304, 0.3026,  
0.2838

 3.7826, 0.2718,  
0.1934

211.6667, 0.3033,  
0.2866

 1.5527, 0.2569,  
0.1614

257.2282, 0.3039,

 0.3254, 0.2354,

0.2891

0.0869

308.8993, 0.3045,  
0.2914

0.0000, 0.0000,  
0.0000

45.0718, 0.2962,  
0.2609

45.0718, 0.2962,  
0.2609

36.4291, 0.2879,  
0.2324

55.2078, 0.3034,  
0.2885

29.1994, 0.2787,  
0.2040

66.9008, 0.3096,  
0.3145

23.3031, 0.2686,  
0.1767

80.2176, 0.3147,  
0.3387

18.6503, 0.2580,  
0.1519

94.8273, 0.3191,  
0.3603

15.1398, 0.2471,  
0.1309

96.3924, 0.3248,  
0.3597

■ 12.6534, 0.2366,  
0.1147

■ 98.0346, 0.3305,  
0.3592

■ 11.0457, 0.2266,  
0.1036

■ 98.1611, 0.3310,  
0.3592

■ 10.5360, 0.2227,  
0.1001

# Harmonies

## Analogous

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



45.0718, 0.2553, 0.2524



45.0718, 0.2962, 0.2609



45.0718, 0.3450, 0.2843

# Triad

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



45.0718, 0.2962, 0.2609



45.0718, 0.4002, 0.3913



45.0718, 0.2425, 0.3339

# Complementary

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



45.0718, 0.2962, 0.2609



66.8812, 0.3255, 0.3992

# 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.



45.0718, 0.2773, 0.3806



45.0718, 0.2962, 0.2609



45.0718, 0.3686, 0.4133

# Square

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



45.0718, 0.2962, 0.2609



45.0718, 0.4077, 0.3563



45.0718, 0.3234, 0.4110



45.0718, 0.2262, 0.2901



# Rectangle

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



45.0718, 0.2962, 0.2609



45.0718, 0.3748, 0.3061



45.0718, 0.3234, 0.4110



45.0718, 0.2523, 0.3500

# Sweetspot

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



45.0737, 0.2962, 0.2609



86.1638, 0.3083, 0.3090



49.9740, 0.2709, 0.2855



17.9195, 0.3074, 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.



45.0737, 0.2962, 0.2609



54.0364, 0.2919, 0.2458



48.1963, 0.3205, 0.2708



13.6500, 0.3075, 0.3054



6.2020, 0.2241, 0.1008



0.4814, 0.2388, 0.1089



# Inverse Universe

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



46.8001, 0.3462, 0.3024



56.8126, 0.3554, 0.2967



64.3844, 0.3057, 0.3952



13.7902, 0.3230, 0.3197



9.6648, 0.5382, 0.2738

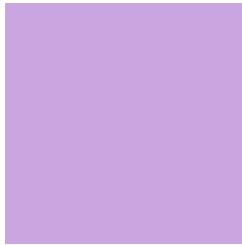


0.6872, 0.4972, 0.2513



# Previews

## White Background



This preview shows how the Yxy color 45.0718, 0.2962, 0.2609 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

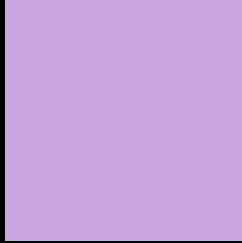
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 45.0718, 0.2962, 0.2609 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 45.0718, 0.2962, 0.2609**

## Background



This preview shows how black text looks on a background with the Yxy color 45.0718, 0.2962, 0.2609.



This preview shows how white text looks on a background with the Yxy color 45.0718, 0.2962, 0.2609.

# 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

45.0718, 0.2962, 0.2609

### Protanopia

45.2698, 0.2636, 0.2606

### Deuteranopia

45.4386, 0.2773, 0.2717



## Tritanopia

45.0771, 0.3207, 0.3114

# Trichromacy



## Original Color

45.0718, 0.2962, 0.2609

## Protanomaly

45.0093, 0.2746, 0.2605

## Deuteranomaly

45.0231, 0.2833, 0.2667

## Tritanomaly

44.7899, 0.3118, 0.2920

# Monochromacy



## Original Color

45.0718, 0.2962, 0.2609

## Achromatopsia

47.3531, 0.3127, 0.3290

## Achromatomaly

46.4686, 0.3071, 0.3027

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 45.0718, 0.2962, 0.2609 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(201, 166, 224)` looks like.

```
.text, #text, p{  
    color:rgb(201, 166, 224)  
}
```

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(201, 166, 224) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(201, 166, 224) }
```

## Border

The CSS property to change the border of an element to Yxy 45.0718, 0.2962, 0.2609 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(201, 166, 224) }
```

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

```
.border{ border-color:rgb(201, 166, 224) }
```

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

Here you see how a box with a 4 pixel `rgb(201, 166, 224)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(201, 166, 224); -webkit-box-  
shadow:4px 4px 4px 4px rgb(201, 166, 224);  
box-shadow:4px 4px 4px 4px rgb(201, 166,  
224) }
```



# Background

The CSS property to change the background color of an element to Yxy 45.0718, 0.2962, 0.2609 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(201, 166, 224) }
```

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

```
.background{ background-color: rgb(201,  
166, 224) }
```

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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