

# Converting Colors

$Yxy(45.9964, 0.2802, 0.2883)$

Have a look what the booklet for  
Yxy(45.9964, 0.2802, 0.2883)  
contains.

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# Color

**Yxy(45.8310, 0.2800, 0.2879)**

# Conversions

## Conversions Part 1

Format	Color
Hex	A9B4D4
RGB	169, 180, 212
RGB Percent	66%, 71%, 83%
CMY	0.3371, 0.2941, 0.1686
CMYK	0.20, 0.15, 0.00, 0.17
HSL	225°, 33%, 75%
HSV	225°, 20%, 83%
XYZ	44.5734, 45.8310, 68.7863
YIQ	180.3590, -16.8280, 7.6200

# Conversions

## Conversions Part 2

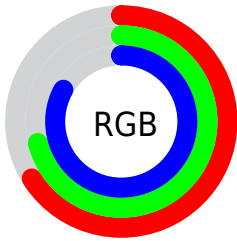
<b>Format</b>	<b>Color</b>
<b>RYB</b>	169, 178, 212
Decimal	11121876
CIELab	73.44, 2.96, -17.41
CIELCh	73, 17.661, 279.660
Yxy	45.8310, 0.2800, 0.2879
Android (android.graphics.Color)	4289311956 (0xFFA9B4D4)
YUV	180.3590, 15.5990, -9.9618
Hunter-Lab	67.6986, -0.9465, -12.8536

# Details

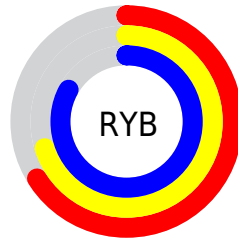
The Yxy color  $45.8310, 0.2800, 0.2879$  is a light color, and the websafe version is hex `CCCCFF`. A complement of this color would be  $58.6607, 0.3454, 0.3670$ , and the grayscale version is  $45.7702, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $83.2185, 0.2942, 0.3096$ , and  $21.3261, 0.2707, 0.2765$  is the 20% darker color. If you saturate the color by 10%, you get  $37.6563, 0.2621, 0.2640$ , and if you desaturate by 10%, it is  $55.1164, 0.2968, 0.3094$ .

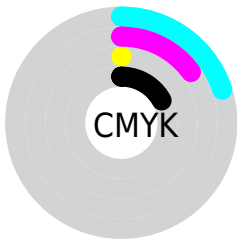
# Distribution



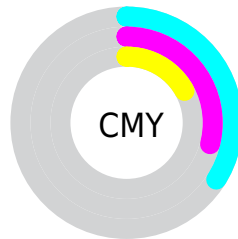
- Red (66%)
- Green (71%)
- Blue (83%)



- Red (66%)
- Yellow (70%)
- Blue (83%)



- Cyan (20%)
- Magenta (15%)
- Yellow (0%)
- Black (17%)



- Cyan (34%)
- Magenta (29%)
- Yellow (17%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 45.8310, 0.2800, 0.2879 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 45.8310, 0.2800, 0.2879 by changing the saturation by 10% instead.



■ 45.8310, 0.2800,  
0.2879

■ 45.8310, 0.2800,  
0.2879

■ 370.1288, 0.2963,  
0.3082

■ 32.1125, 0.2760,  
0.2829

■ 83.9660, 0.2859,  
0.2952

■ 21.4474, 0.2708,  
0.2766

■ 109.1513, 0.2881,  
0.2980

■ 13.4514, 0.2640,  
0.2683

■ 138.9276, 0.2900,  
0.3003

■ 7.7401, 0.2545,  
0.2569

■ 173.6794, 0.2916,  
0.3023

■ 3.9291, 0.2407,  
0.2405

■ 213.7910, 0.2930,  
0.3041

■ 1.6340, 0.2188,  
0.2148

■ 259.6469, 0.2943,

■ 0.3804, 0.1662,

0.3056

0.1457

311.6313, 0.2954,  
0.3070

0.0000, 0.0000,  
0.0000

45.8310, 0.2800,  
0.2879

45.8310, 0.2800,  
0.2879

37.6563, 0.2621,  
0.2640

55.1164, 0.2968,  
0.3094

30.5442, 0.2434,  
0.2380

65.5471, 0.3123,  
0.3285

24.4511, 0.2246,  
0.2105

77.1632, 0.3265,  
0.3453

19.3281, 0.2064,  
0.1822

90.0009, 0.3392,  
0.3600

15.1220, 0.1898,  
0.1544

97.5337, 0.3382,  
0.3711

■ 11.7742, 0.1758,  
0.1286

■ 9.2178, 0.1651,  
0.1061

■ 7.3965, 0.1579,  
0.0884

# Harmonies

## Analogous

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



45.8310, 0.2676, 0.2955



45.8310, 0.2800, 0.2879



45.8310, 0.3013, 0.2908

# Triad

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



45.8310, 0.2800, 0.2879



45.8310, 0.3610, 0.3423



45.8310, 0.2979, 0.3575

# Complementary

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



45.8310, 0.2800, 0.2879



58.6607, 0.3454, 0.3670

# 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.



45.8310, 0.3226, 0.3711



45.8310, 0.2800, 0.2879



45.8310, 0.3597, 0.3609

# Square

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



45.8310, 0.2800, 0.2879



45.8310, 0.3487, 0.3213



45.8310, 0.3454, 0.3719



45.8310, 0.2776, 0.3355



# Rectangle

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



45.8310, 0.2800, 0.2879



45.8310, 0.3181, 0.2979



45.8310, 0.3454, 0.3719



45.8310, 0.3059, 0.3633

# Sweetspot

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



45.8329, 0.2800, 0.2879



90.1541, 0.3035, 0.3177



59.7242, 0.2897, 0.3433



19.0757, 0.3025, 0.3165



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.



45.8329, 0.2800, 0.2879



64.4615, 0.2730, 0.2787



42.7359, 0.2872, 0.2746



12.5182, 0.2982, 0.3111



4.7031, 0.1585, 0.0907



0.4175, 0.1680, 0.1246



# Inverse Universe

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



45.6834, 0.3428, 0.3158



64.3780, 0.3504, 0.3131



62.5087, 0.3351, 0.3805



12.4722, 0.3251, 0.3231



8.8196, 0.5901, 0.3024

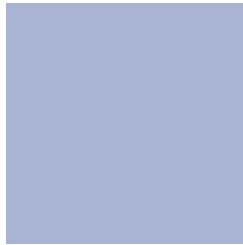


0.5455, 0.5401, 0.2749



# Previews

## White Background



This preview shows how the Yxy color 45.8310, 0.2800, 0.2879 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

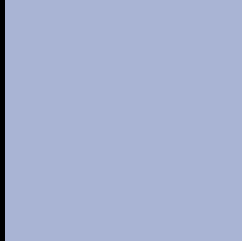
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 45.8310, 0.2800, 0.2879 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

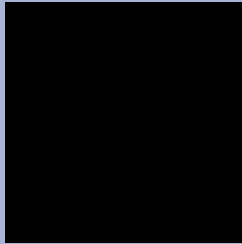
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 45.8310, 0.2800, 0.2879**

## **Background**



This preview shows how black text looks on a background with the Yxy color 45.8310, 0.2800, 0.2879.



This preview shows how white text looks on a background with the Yxy color 45.8310, 0.2800, 0.2879.

# 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

45.8310, 0.2800, 0.2879

### Protanopia

45.9420, 0.2844, 0.2883

### Deuteranopia

45.7998, 0.2891, 0.2828



## Tritanopia

46.0052, 0.2884, 0.3104

# Trichromacy



**Original Color**

45.8310, 0.2800, 0.2879

**Protanomaly**

45.7140, 0.2829, 0.2881

**Deuteranomaly**

45.5955, 0.2852, 0.2836

**Tritanomaly**

45.9357, 0.2856, 0.3028

# Monochromacy



**Original Color**

45.8310, 0.2800, 0.2879

**Achromatopsia**

45.6411, 0.3127, 0.3290

**Achromatomaly**

45.6784, 0.3000, 0.3133

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 45.8310, 0.2800, 0.2879 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(169, 180, 212)` looks like.

```
.text, #text, p{  
    color:rgb(169, 180, 212)  
}
```

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(169, 180, 212) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(169, 180, 212) }
```

## Border

The CSS property to change the border of an element to Yxy 45.8310, 0.2800, 0.2879 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(169, 180, 212) }
```

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

```
.border{ border-color:rgb(169, 180, 212) }
```

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

Here you see how a box with a 4 pixel `rgb(169, 180, 212)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(169, 180, 212); -webkit-box-  
shadow:4px 4px 4px 4px rgb(169, 180, 212);  
box-shadow:4px 4px 4px 4px rgb(169, 180,  
212) }
```



# Background

The CSS property to change the background color of an element to Yxy 45.8310, 0.2800, 0.2879 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(169, 180, 212) }
```

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

```
.background{ background-color: rgb(169,  
180, 212) }
```

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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