

# Converting Colors

$Y_{xy}(45.5496, 0.2745, 0.2980)$

Have a look what the booklet for  
Yxy(45.5496, 0.2745, 0.2980)  
contains.

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# Color

**Yxy(45.4399, 0.2740, 0.2971)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	9CB7CF
RGB	156, 183, 207
RGB Percent	61%, 72%, 81%
CMY	0.3882, 0.2823, 0.1882
CMYK	0.25, 0.12, 0.00, 0.19
HSL	208°, 35%, 71%
HSV	208°, 25%, 81%
XYZ	41.9069, 45.4399, 65.5980
YIQ	177.6630, -23.7960, 1.7400

# Conversions

## Conversions Part 2

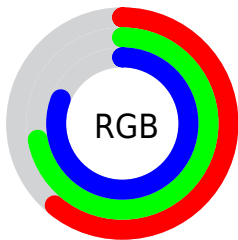
Format	Color
<b>RYB</b>	156, 174, 207
Decimal	10270671
CIELab	73.18, -3.84, -15.16
CIELCh	73, 15.637, 255.774
Yxy	45.4399, 0.2740, 0.2971
Android (android.graphics.Color)	4288460751 (0xFF9CB7CF)
YUV	177.6630, 14.4631, -18.9985
Hunter-Lab	67.4091, -6.9962, -10.5107

# Details

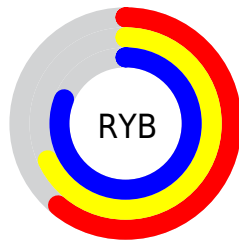
The Yxy color  $45.4399, 0.2740, 0.2971$  is a light color, and the websafe version is hex  $99CCFF$ . A complement of this color would be  $48.3123, 0.3570, 0.3589$ , and the grayscale version is  $44.2664, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $82.8019, 0.2858, 0.3122$ , and  $21.2082, 0.2632, 0.2872$  is the 20% darker color. If you saturate the color by 10%, you get  $39.6685, 0.2579, 0.2818$ , and if you desaturate by 10%, it is  $51.8451, 0.2900, 0.3110$ .

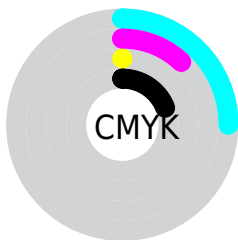
# Distribution



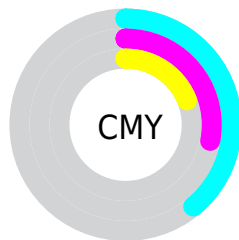
- Red (61%)
- Green (72%)
- Blue (81%)



- Red (61%)
- Yellow (68%)
- Blue (81%)



- Cyan (25%)
- Magenta (12%)
- Yellow (0%)
- Black (19%)




- Cyan (39%)
- Magenta (28%)
- Yellow (19%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 45.4399, 0.2740, 0.2971 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 45.4399, 0.2740, 0.2971 by changing the saturation by 10% instead.





 45.4399, 0.2740,  
0.2971

 45.4399, 0.2740,  
0.2971


368.5523, 0.2932,  
0.3131

 31.8041, 0.2693,  
0.2931


 83.3801, 0.2809,  
0.3029

 21.2119, 0.2632,  
0.2879


 108.4533, 0.2836,  
0.3051

 13.2790, 0.2553,  
0.2811


138.1077, 0.2858,  
0.3070

 7.6209, 0.2443,  
0.2715

172.7278, 0.2877,  
0.3086

 3.8534, 0.2283,  
0.2574

212.6979, 0.2893,  
0.3099

 1.5919, 0.2030,  
0.2345

258.4024, 0.2908,

 0.3521, 0.1136,

0.3111

0.1661

310.2257, 0.2921,  
0.3122

0.0000, 0.0000,  
0.0000

45.4399, 0.2740,  
0.2971

45.4399, 0.2740,  
0.2971

39.6685, 0.2579,  
0.2818

51.8451, 0.2900,  
0.3110

34.5020, 0.2421,  
0.2654

58.9007, 0.3057,  
0.3236

29.9170, 0.2270,  
0.2479

66.6291, 0.3207,  
0.3349

25.8862, 0.2131,  
0.2298

75.0503, 0.3350,  
0.3448

22.3795, 0.2009,  
0.2114

83.3184, 0.3452,  
0.3539

■ 19.3624, 0.1908,  
0.1931

■ 88.9473, 0.3435,  
0.3633

■ 16.7945, 0.1831,  
0.1756

■ 94.8849, 0.3418,  
0.3725

■ 15.5677, 0.1796,  
0.1665

■ 97.2854, 0.3412,  
0.3760

# Harmonies

## Analogous

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



45.4399, 0.2711, 0.3109



45.4399, 0.2740, 0.2971



45.4399, 0.2870, 0.2921

# Triad

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



45.4399, 0.2740, 0.2971



45.4399, 0.3477, 0.3260



45.4399, 0.3171, 0.3646

# Complementary

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



45.4399, 0.2740, 0.2971



48.3123, 0.3570, 0.3589

# 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.



45.4399, 0.3381, 0.3678



45.4399, 0.2740, 0.2971



45.4399, 0.3563, 0.3447

# Square

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



45.4399, 0.2740, 0.2971



45.4399, 0.3295, 0.3086



45.4399, 0.3527, 0.3601



45.4399, 0.2954, 0.3507



# Rectangle

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



45.4399, 0.2740, 0.2971



45.4399, 0.2999, 0.2940



45.4399, 0.3527, 0.3601



45.4399, 0.3245, 0.3669

# Sweetspot

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



45.4417, 0.2740, 0.2971



91.5270, 0.3019, 0.3207



54.9851, 0.2938, 0.3651



19.4396, 0.3009, 0.3199



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

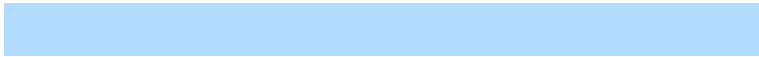


# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



45.4417, 0.2740, 0.2971



67.4056, 0.2648, 0.2885



35.9257, 0.2710, 0.2621



12.4388, 0.2983, 0.3178



9.9986, 0.1802, 0.1688



0.7173, 0.1891, 0.2006



# Inverse Universe

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



40.4632, 0.3375, 0.2958



58.4144, 0.3450, 0.2877



59.4771, 0.3501, 0.3882



11.9113, 0.3209, 0.3168



9.0806, 0.4821, 0.2430

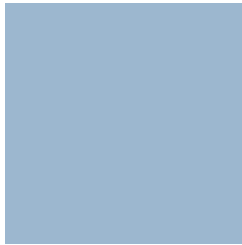


0.5237, 0.4446, 0.2223



# Previews

## White Background



This preview shows how the Yxy color 45.4399, 0.2740, 0.2971 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

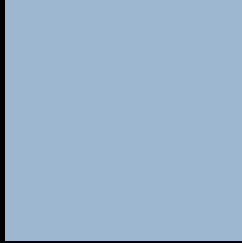
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 45.4399, 0.2740, 0.2971 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

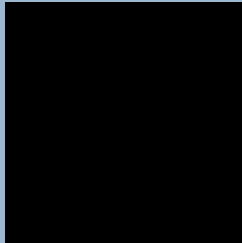
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

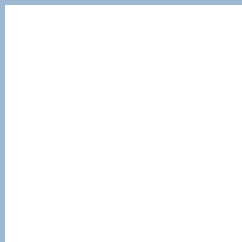
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 45.4399, 0.2740, 0.2971**

## **Background**



This preview shows how black text looks on a background with the Yxy color 45.4399, 0.2740, 0.2971.



This preview shows how white text looks on a background with the Yxy color 45.4399, 0.2740, 0.2971.

# 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

45.4399, 0.2740, 0.2971

### Protanopia

45.3144, 0.2902, 0.2955

### Deuteranopia

45.3307, 0.2929, 0.2863



## Tritanopia

45.2745, 0.2780, 0.3087

# Trichromacy



## Original Color

45.4399, 0.2740, 0.2971

## Protanomaly

45.3751, 0.2841, 0.2964

## Deuteranomaly

45.2791, 0.2857, 0.2905

## Tritanomaly

45.5138, 0.2767, 0.3048

# Monochromacy



## Original Color

45.4399, 0.2740, 0.2971

## Achromatopsia

44.5201, 0.3127, 0.3290

## Achromatomaly

44.8627, 0.2973, 0.3170

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 45.4399, 0.2740, 0.2971 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(156, 183, 207)` looks like.

```
.text, #text, p{  
    color:rgb(156, 183, 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(156, 183, 207) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(156, 183, 207) }
```

## Border

The CSS property to change the border of an element to Yxy 45.4399, 0.2740, 0.2971 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(156, 183, 207) }
```

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

```
.border{ border-color:rgb(156, 183, 207) }
```

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

Here you see how a box with a 4 pixel `rgb(156, 183, 207)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(156, 183, 207); -webkit-box-  
shadow:4px 4px 4px 4px rgb(156, 183, 207);  
box-shadow:4px 4px 4px 4px rgb(156, 183,  
207) }
```



# Background

The CSS property to change the background color of an element to Yxy 45.4399, 0.2740, 0.2971 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(156, 183, 207) }
```

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

```
.background{ background-color: rgb(156,  
183, 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](#).

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