

# Converting Colors

$Y_{xy}(45.3153, 0.3012, 0.3122)$

Have a look what the booklet for  
Yxy(45.3153, 0.3012, 0.3122)  
contains.

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# Color

**Yxy(45.3931, 0.3008, 0.3120)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B1B3C0
RGB	177, 179, 192
RGB Percent	69%, 70%, 75%
CMY	0.3060, 0.2980, 0.2470
CMYK	0.08, 0.07, 0.00, 0.25
HSL	232°, 11%, 72%
HSV	232°, 8%, 75%
XYZ	43.7636, 45.3931, 56.3340
YIQ	179.8840, -5.3650, 3.6190

# Conversions

## Conversions Part 2

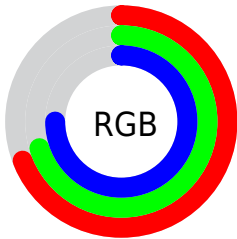
<b>Format</b>	<b>Color</b>
<b>RYB</b>	177, 179, 192
Decimal	11645888
CIELab	73.15, 1.83, -6.85
CIElCh	73, 7.091, 284.942
Yxy	45.3931, 0.3008, 0.3120
Android (android.graphics.Color)	4289835968 (0xFFB1B3C0)
YUV	179.8840, 5.9732, -2.5293
Hunter-Lab	67.3744, -1.9590, -2.4123

# Details

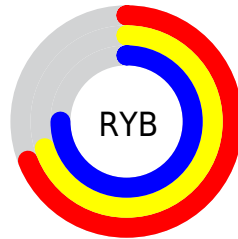
The Yxy color  $45.3931, 0.3008, 0.3120$  is a light color, and the websafe version is hex `CCCCCC`. A complement of this color would be  $51.2037, 0.3244, 0.3454$ , and the grayscale version is  $45.5457, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $83.5176, 0.3035, 0.3158$ , and  $21.0709, 0.2965, 0.3057$  is the 20% darker color. If you saturate the color by 10%, you get  $37.0348, 0.2841, 0.2878$ , and if you desaturate by 10%, it is  $54.8745, 0.3158, 0.3334$ .

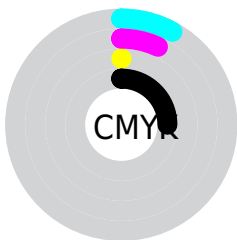
# Distribution



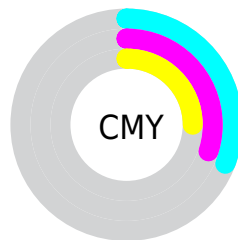
- Red (69%)
- Green (70%)
- Blue (75%)



- Red (69%)
- Yellow (70%)
- Blue (75%)



- Cyan (8%)
- Magenta (7%)
- Yellow (0%)
- Black (25%)



- Cyan (31%)
- Magenta (30%)
- Yellow (25%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 45.3931, 0.3008, 0.3120 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 45.3931, 0.3008, 0.3120 by changing the saturation by 10% instead.



■ 45.3931, 0.3008,  
0.3120

■ 45.3931, 0.3008,  
0.3120

■ 368.3633, 0.3068,  
0.3205

■ 31.7672, 0.2993,  
0.3099

■ 83.3100, 0.3030,  
0.3151

■ 21.1837, 0.2974,  
0.3072

■ 108.3697, 0.3038,  
0.3162

■ 13.2584, 0.2948,  
0.3035

■ 138.0095, 0.3045,  
0.3172

■ 7.6067, 0.2911,  
0.2985

■ 172.6138, 0.3051,  
0.3181

■ 3.8443, 0.2856,  
0.2910

■ 212.5669, 0.3056,  
0.3188

■ 1.5869, 0.2765,  
0.2785

■ 258.2533, 0.3060,

■ 0.3487, 0.2375,

0.3194

0.2202

310.0573, 0.3064,  
0.3200

0.0000, 0.0000,  
0.0000

45.3931, 0.3008,  
0.3120

45.3931, 0.3008,  
0.3120

37.0348, 0.2841,  
0.2878

54.8745, 0.3158,  
0.3334

29.7522, 0.2659,  
0.2607

65.5125, 0.3292,  
0.3521

23.5032, 0.2464,  
0.2312

77.3465, 0.3410,  
0.3683

18.2406, 0.2264,  
0.2000

90.4123, 0.3514,  
0.3824

13.9134, 0.2067,  
0.1683

96.5866, 0.3502,  
0.3909

■ 10.4662, 0.1885,  
0.1379

■ 7.8375, 0.1730,  
0.1106

■ 5.9576, 0.1614,  
0.0886

■ 4.7381, 0.1541,  
0.0729

# Harmonies

## Analogous

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



45.3931, 0.2948, 0.3147



45.3931, 0.3008, 0.3120



45.3931, 0.3100, 0.3138

# Triad

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



45.3931, 0.3008, 0.3120



45.3931, 0.3323, 0.3362



45.3931, 0.3052, 0.3389

# Complementary

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



45.3931, 0.3008, 0.3120



51.2037, 0.3244, 0.3454

# 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.



45.3931, 0.3152, 0.3449



45.3931, 0.3008, 0.3120



45.3931, 0.3309, 0.3432

# Square

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



45.3931, 0.3008, 0.3120



45.3931, 0.3283, 0.3276



45.3931, 0.3246, 0.3464



45.3931, 0.2973, 0.3302



# Rectangle

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



45.3931, 0.3008, 0.3120



45.3931, 0.3168, 0.3172



45.3931, 0.3246, 0.3464



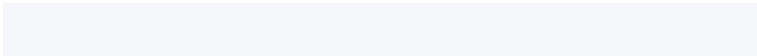
45.3931, 0.3084, 0.3413

# Sweetspot

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



45.3950, 0.3008, 0.3120



91.9451, 0.3097, 0.3248



50.7590, 0.3024, 0.3319



19.7634, 0.3099, 0.3250



97.7402, 0.3127, 0.3290



20.4902, 0.3127, 0.3290



# Same Dimension

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



45.3950, 0.3008, 0.3120



80.1353, 0.2987, 0.3090



45.2170, 0.3052, 0.3096



9.9624, 0.2983, 0.3085



3.1229, 0.1532, 0.0716



0.2078, 0.1621, 0.1036

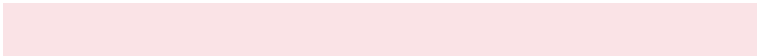


# Inverse Universe

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



45.8997, 0.3243, 0.3264



81.2059, 0.3264, 0.3260



51.4144, 0.3198, 0.3482



10.0995, 0.3268, 0.3259



7.5975, 0.6206, 0.3192

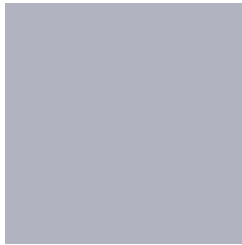


0.3356, 0.5705, 0.2916



# Previews

## White Background



This preview shows how the Yxy color 45.3931, 0.3008, 0.3120 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

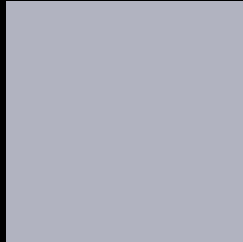
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 45.3931, 0.3008, 0.3120 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

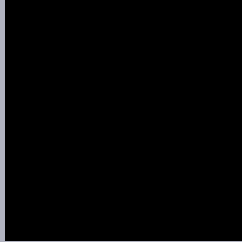
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

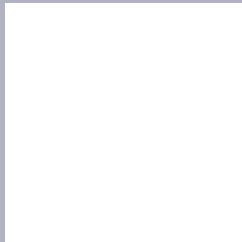
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 45.3931, 0.3008, 0.3120**

## **Background**



This preview shows how black text looks on a background with the Yxy color 45.3931, 0.3008, 0.3120.

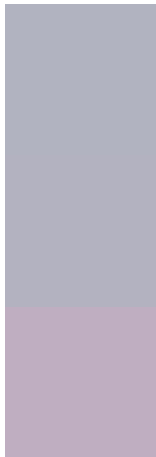


This preview shows how white text looks on a background with the Yxy color 45.3931, 0.3008, 0.3120.

# 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

45.3931, 0.3008, 0.3120

### Protanopia

45.2303, 0.3025, 0.3108

### Deuteranopia

45.1987, 0.3121, 0.3050



## Tritanopia

45.4376, 0.3001, 0.3107

# Trichromacy



## Original Color

45.3931, 0.3008, 0.3120

## Protanomaly

45.1115, 0.3017, 0.3107

## Deuteranomaly

45.3400, 0.3077, 0.3073

## Tritanomaly

45.4376, 0.3001, 0.3107

# Monochromacy



## Original Color

45.3931, 0.3008, 0.3120

## Achromatopsia

45.6411, 0.3127, 0.3290

## Achromatomaly

45.6869, 0.3087, 0.3237

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 45.3931, 0.3008, 0.3120 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(177, 179, 192)` looks like.

```
.text, #text, p{  
    color:rgb(177, 179, 192)  
}
```

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(177, 179, 192) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(177, 179, 192) }
```

## Border

The CSS property to change the border of an element to Yxy 45.3931, 0.3008, 0.3120 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(177, 179, 192) }
```

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

```
.border{ border-color:rgb(177, 179, 192) }
```

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

Here you see how a box with a 4 pixel `rgb(177, 179, 192)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(177, 179, 192); -webkit-box-  
shadow:4px 4px 4px 4px rgb(177, 179, 192);  
box-shadow:4px 4px 4px 4px rgb(177, 179,  
192) }
```



# Background

The CSS property to change the background color of an element to Yxy 45.3931, 0.3008, 0.3120 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(177, 179, 192) }
```

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

```
.background{ background-color: rgb(177,  
179, 192) }
```

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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