

# Converting Colors

$Y_{xy}(45.6610, 0.3005, 0.3141)$

Have a look what the booklet for  
Yxy(45.6610, 0.3005, 0.3141)  
contains.

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# Color

**Yxy(45.6342, 0.3008, 0.3146)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B0B4BF
RGB	176, 180, 191
RGB Percent	69%, 71%, 75%
CMY	0.3097, 0.2941, 0.2510
CMYK	0.08, 0.06, 0.00, 0.25
HSL	224°, 10%, 72%
HSV	224°, 8%, 75%
XYZ	43.6324, 45.6342, 55.7880
YIQ	180.0580, -5.9150, 2.5730

# Conversions

## Conversions Part 2

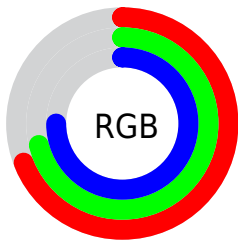
<b>Format</b>	<b>Color</b>
<b>R<sub>Y</sub>B</b>	176, 179, 191
Decimal	11580607
CIE Lab	73.31, 0.76, -6.06
CIE LCh	73, 6.108, 277.179
Yxy	45.6342, 0.3008, 0.3146
Android (android.graphics.Color)	4289770687 (0xFFB0B4BF)
YUV	180.0580, 5.3944, -3.5589
Hunter-Lab	67.5531, -2.9250, -1.6769

# Details

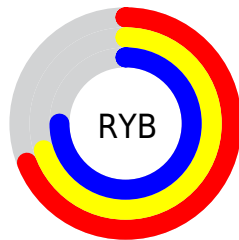
The Yxy color  $45.6342, 0.3008, 0.3146$  is a light color, and the websafe version is hex `CCCCCC`. A complement of this color would be  $49.7553, 0.3247, 0.3430$ , and the grayscale version is  $45.6499, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $83.8621, 0.3034, 0.3178$ , and  $21.2247, 0.2964, 0.3092$  is the 20% darker color. If you saturate the color by 10%, you get  $38.1840, 0.2844, 0.2941$ , and if you desaturate by 10%, it is  $53.9747, 0.3159, 0.3327$ .

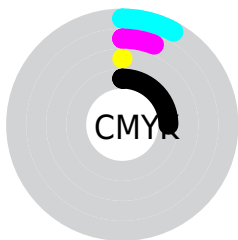
# Distribution



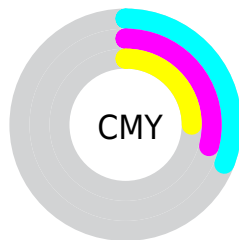
- Red (69%)
- Green (71%)
- Blue (75%)



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



- Cyan (8%)
- Magenta (6%)
- Yellow (0%)
- Black (25%)



- Cyan (31%)
- Magenta (29%)
- Yellow (25%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 45.6342, 0.3008, 0.3146 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 45.6342, 0.3008, 0.3146 by changing the saturation by 10% instead.



■ 45.6342, 0.3008,  
0.3146

■ 45.6342, 0.3008,  
0.3146

369.3361, 0.3068,  
0.3218

■ 31.9573, 0.2993,  
0.3128

■ 83.6713, 0.3030,  
0.3172

■ 21.3289, 0.2974,  
0.3105

108.8002, 0.3038,  
0.3182

■ 13.3646, 0.2948,  
0.3074

138.5153, 0.3045,  
0.3190

■ 7.6801, 0.2912,  
0.3031

173.2008, 0.3051,  
0.3198

■ 3.8909, 0.2858,  
0.2966

213.2413, 0.3056,  
0.3204

■ 1.6127, 0.2767,  
0.2859

259.0210, 0.3060,

■ 0.3662, 0.2358,

0.3209

0.2355

310.9245, 0.3064,  
0.3214

0.0000, 0.0000,  
0.0000

45.6342, 0.3008,  
0.3146

45.6342, 0.3008,  
0.3146

38.1840, 0.2844,  
0.2941

53.9747, 0.3159,  
0.3327

31.5882, 0.2670,  
0.2714

63.2281, 0.3296,  
0.3487

25.8173, 0.2487,  
0.2464

73.4236, 0.3420,  
0.3626

20.8373, 0.2301,  
0.2198

84.5872, 0.3532,  
0.3747

16.6122, 0.2119,  
0.1922

93.4750, 0.3519,  
0.3876

■ 13.1029, 0.1950,  
0.1646

■ 96.5408, 0.3508,  
0.3920

■ 10.2662, 0.1802,  
0.1384

■ 8.0539, 0.1686,  
0.1149

■ 6.4032, 0.1604,  
0.0954

# Harmonies

## Analogous

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



45.6342, 0.2966, 0.3179



45.6342, 0.3008, 0.3146



45.6342, 0.3082, 0.3151

# Triad

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



45.6342, 0.3008, 0.3146



45.6342, 0.3291, 0.3334



45.6342, 0.3084, 0.3391

# Complementary

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



45.6342, 0.3008, 0.3146



49.7553, 0.3247, 0.3430

# 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.



45.6342, 0.3171, 0.3434



45.6342, 0.3008, 0.3146



45.6342, 0.3291, 0.3399

# Square

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



45.6342, 0.3008, 0.3146



45.6342, 0.3246, 0.3259



45.6342, 0.3247, 0.3436



45.6342, 0.3010, 0.3321



# Rectangle

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



45.6342, 0.3008, 0.3146



45.6342, 0.3140, 0.3175



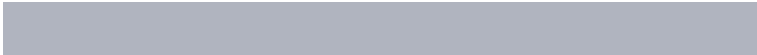
45.6342, 0.3247, 0.3436



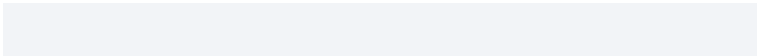
45.6342, 0.3113, 0.3409

# Sweetspot

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



45.6361, 0.3008, 0.3146



90.2166, 0.3097, 0.3254



50.0749, 0.3037, 0.3341



19.8443, 0.3099, 0.3256



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.



45.6361, 0.3008, 0.3146



79.9105, 0.2987, 0.3121



44.4677, 0.3038, 0.3095



9.6264, 0.2984, 0.3117



4.1267, 0.1594, 0.0939



0.2732, 0.1731, 0.1432



# Inverse Universe

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



45.4308, 0.3227, 0.3239



79.5057, 0.3245, 0.3231



51.0167, 0.3213, 0.3481



9.5769, 0.3248, 0.3229



7.4463, 0.5852, 0.2997



0.3029, 0.5148, 0.2610



# Previews

## White Background



This preview shows how the Yxy color 45.6342, 0.3008, 0.3146 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

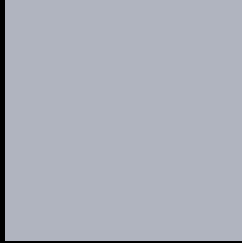
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 45.6342, 0.3008, 0.3146 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

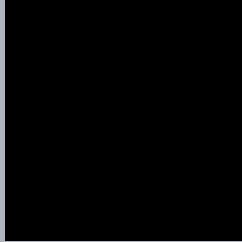
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

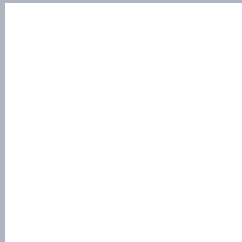
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 45.6342, 0.3008, 0.3146**

## Background



This preview shows how black text looks on a background with the Yxy color 45.6342, 0.3008, 0.3146.

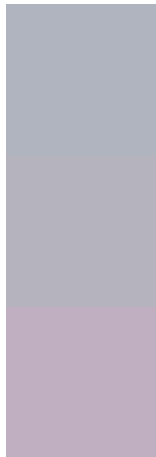


This preview shows how white text looks on a background with the Yxy color 45.6342, 0.3008, 0.3146.

# 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

45.6342, 0.3008, 0.3146

### Protanopia

45.6612, 0.3049, 0.3147

### Deuteranopia

45.6722, 0.3137, 0.3076



## Tritanopia

45.7677, 0.2985, 0.3107

# Trichromacy



## Original Color

45.6342, 0.3008, 0.3146

## Protanomaly

45.5416, 0.3040, 0.3147

## Deuteranomaly

45.6892, 0.3085, 0.3098

## Tritanomaly

45.7229, 0.2992, 0.3120

# Monochromacy



## Original Color

45.6342, 0.3008, 0.3146

## 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 45.6342, 0.3008, 0.3146 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(176, 180, 191)` looks like.

```
.text, #text, p{  
    color:rgb(176, 180, 191)  
}
```

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(176, 180, 191) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(176, 180, 191) }
```

## Border

The CSS property to change the border of an element to Yxy 45.6342, 0.3008, 0.3146 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(176, 180, 191) }
```

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

```
.border{ border-color:rgb(176, 180, 191) }
```

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

Here you see how a box with a 4 pixel `rgb(176, 180, 191)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(176, 180, 191); -webkit-box-  
shadow:4px 4px 4px 4px rgb(176, 180, 191);  
box-shadow:4px 4px 4px 4px rgb(176, 180,  
191) }
```



# Background

The CSS property to change the background color of an element to Yxy 45.6342, 0.3008, 0.3146 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(176, 180, 191) }
```

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

```
.background{ background-color: rgb(176,  
180, 191) }
```

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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