

# Converting Colors

$Y_{xy}(48.3113, 0.3133, 0.3222)$

Have a look what the booklet for  
Yxy(48.3113, 0.3133, 0.3222)  
contains.

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# Color

**Yxy(48.3166, 0.3139, 0.3227)**

# Conversions

## Conversions Part 1

Format	Color
Hex	BDB7BC
RGB	189, 183, 188
RGB Percent	74%, 72%, 74%
CMY	0.2587, 0.2824, 0.2628
CMYK	0.00, 0.03, 0.01, 0.26
HSL	310°, 4%, 73%
HSV	310°, 3%, 74%
XYZ	46.9990, 48.3166, 54.4105
YIQ	185.3640, 1.9710, 2.8270

# Conversions

## Conversions Part 2

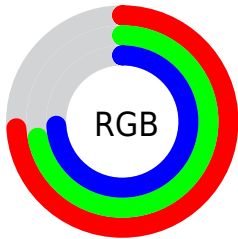
Format	Color
R <sub>Y</sub> B	189, 183, 188
Decimal	12433340
CIE Lab	75.02, 3.04, -1.77
CIE LCh	75, 3.518, 329.761
Yxy	48.3166, 0.3139, 0.3227
Android (android.graphics.Color)	4290623420 (0xFFBDB7BC)
YUV	185.3640, 1.2995, 3.1888
Hunter-Lab	69.5101, -0.9507, 2.2467

# Details

The Yxy color `48.3166, 0.3139, 0.3227` is a light color, and the websafe version is hex `CCCCCC`. A complement of this color would be `49.9364, 0.3116, 0.3354`, and the grayscale version is `48.7228, 0.3127, 0.3290`.

A 20% lighter version of the original color is `87.6771, 0.3136, 0.3240`, and `22.9488, 0.3143, 0.3204` is the 20% darker color. If you saturate the color by 10%, you get `40.8969, 0.3180, 0.3024`, and if you desaturate by 10%, it is `56.7910, 0.3104, 0.3421`.

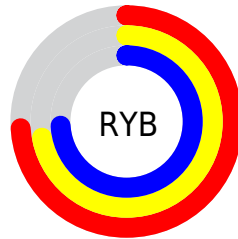
# Distribution



Red (74%)

Green (72%)

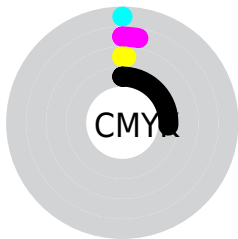
Blue (74%)



Red (74%)

Yellow (72%)

Blue (74%)

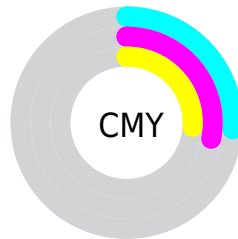


Cyan (0%)

Magenta (3%)

Yellow (1%)

Black (26%)



Cyan (26%)

Magenta (28%)

Yellow (26%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 48.3166, 0.3139, 0.3227 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 48.3166, 0.3139, 0.3227 by changing the saturation by 10% instead.



■ 48.3166, 0.3139,  
0.3227

■ 48.3166, 0.3139,  
0.3227

380.0457, 0.3133,  
0.3258

■ 34.0777, 0.3140,  
0.3219

■ 87.6756, 0.3137,  
0.3238

■ 22.9533, 0.3142,  
0.3209

113.5645, 0.3136,  
0.3243

■ 14.5590, 0.3145,  
0.3196

144.1054, 0.3135,  
0.3246

■ 8.5105, 0.3148,  
0.3178

179.6829, 0.3135,  
0.3249

■ 4.4233, 0.3153,  
0.3152

220.6813, 0.3134,  
0.3252

■ 1.9131, 0.3160,  
0.3108

267.4849, 0.3134,

■ 0.5562, 0.3192,

0.3254

0.2945

320.4783, 0.3134,  
0.3256

0.0000, 0.0000,  
0.0000

48.3166, 0.3139,  
0.3227

48.3166, 0.3139,  
0.3227

40.8969, 0.3180,  
0.3024

56.7910, 0.3104,  
0.3421

34.4840, 0.3227,  
0.2815

66.3529, 0.3074,  
0.3603

29.0360, 0.3279,  
0.2606

77.0415, 0.3048,  
0.3772

24.5053, 0.3338,  
0.2405

86.5672, 0.3027,  
0.3892

20.8403, 0.3400,  
0.2220

86.7244, 0.3009,  
0.3854

■ 17.9844, 0.3467,  
0.2062

■ 86.8849, 0.2991,  
0.3816

■ 15.8742, 0.3534,  
0.1938

■ 87.0488, 0.2974,  
0.3778

■ 14.4370, 0.3601,  
0.1858

■ 87.2160, 0.2956,  
0.3740

■ 13.5851, 0.3665,  
0.1822

■ 87.3867, 0.2938,  
0.3702

# Harmonies

## Analogous

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



48.3166, 0.3090, 0.3208



48.3166, 0.3139, 0.3227



48.3166, 0.3185, 0.3262

# Triad

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



48.3166, 0.3139, 0.3227



48.3166, 0.3203, 0.3369



48.3166, 0.3040, 0.3274

# Complementary

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



48.3166, 0.3139, 0.3227



49.9364, 0.3116, 0.3354

# 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.



48.3166, 0.3070, 0.3318



48.3166, 0.3139, 0.3227



48.3166, 0.3164, 0.3373

# Square

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



48.3166, 0.3139, 0.3227



48.3166, 0.3222, 0.3344



48.3166, 0.3115, 0.3355



48.3166, 0.3034, 0.3235



# Rectangle

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



48.3166, 0.3139, 0.3227



48.3166, 0.3207, 0.3291



48.3166, 0.3115, 0.3355



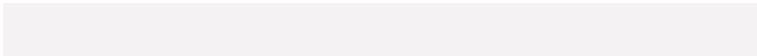
48.3166, 0.3048, 0.3289

# Sweetspot

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



48.3187, 0.3139, 0.3227



89.6449, 0.3131, 0.3270



47.7329, 0.3089, 0.3213



19.2942, 0.3131, 0.3271



95.5105, 0.3127, 0.3290



19.5994, 0.3127, 0.3290

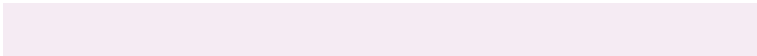


# Same Dimension

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



48.3187, 0.3139, 0.3227



85.2743, 0.3142, 0.3210



48.1921, 0.3162, 0.3265



10.4484, 0.3145, 0.3197



8.9045, 0.3700, 0.1812



0.3564, 0.3563, 0.1737



# Inverse Universe

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



48.3187, 0.3139, 0.3227



85.2743, 0.3142, 0.3210



50.0621, 0.3093, 0.3316



10.4484, 0.3145, 0.3197



8.9045, 0.3700, 0.1812



0.3564, 0.3563, 0.1737



# Previews

## White Background



This preview shows how the Yxy color 48.3166, 0.3139, 0.3227 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

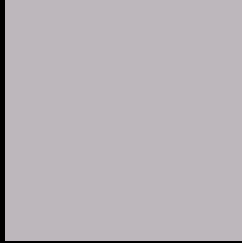
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 48.3166, 0.3139, 0.3227 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

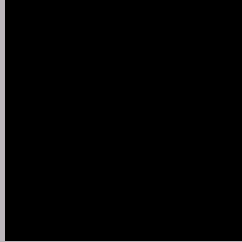
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

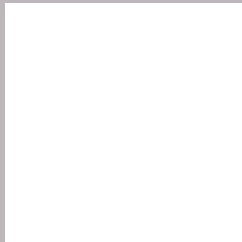
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 48.3166, 0.3139, 0.3227**

## **Background**



This preview shows how black text looks on a background with the Yxy color 48.3166, 0.3139, 0.3227.



This preview shows how white text looks on a background with the Yxy color 48.3166, 0.3139, 0.3227.

# 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

48.3166, 0.3139, 0.3227

### Protanopia

48.4766, 0.3121, 0.3239

### Deuteranopia

48.3318, 0.3237, 0.3167



## Tritanopia

48.3886, 0.3085, 0.3115

# Trichromacy



## Original Color

48.3166, 0.3139, 0.3227

## Protanomaly

48.6032, 0.3130, 0.3239

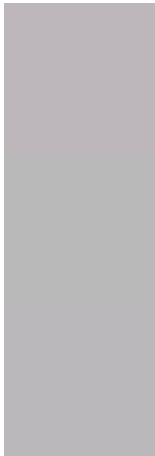
## Deuteranomaly

48.1870, 0.3201, 0.3178

## Tritanomaly

48.2533, 0.3108, 0.3152

# Monochromacy



## Original Color

48.3166, 0.3139, 0.3227

## Achromatopsia

48.5150, 0.3127, 0.3290

## Achromatomaly

48.2653, 0.3128, 0.3264

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 48.3166, 0.3139, 0.3227 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(189, 183, 188)` looks like.

```
.text, #text, p{  
    color:rgb(189, 183, 188)  
}
```

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(189, 183, 188) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(189, 183, 188) }
```

## Border

The CSS property to change the border of an element to Yxy 48.3166, 0.3139, 0.3227 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(189, 183, 188) }
```

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

```
.border{ border-color:rgb(189, 183, 188) }
```

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

Here you see how a box with a 4 pixel rgb(189, 183, 188) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(189, 183, 188); -webkit-box-  
shadow:4px 4px 4px 4px rgb(189, 183, 188);  
box-shadow:4px 4px 4px 4px rgb(189, 183,  
188) }
```



# Background

The CSS property to change the background color of an element to Yxy 48.3166, 0.3139, 0.3227 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(189, 183, 188) }
```

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

```
.background{ background-color: rgb(189,  
183, 188) }
```

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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