

# Converting Colors

$Y_{xy}(46.9220, 0.3173, 0.3239)$

Have a look what the booklet for  
Yxy(46.9220, 0.3173, 0.3239)  
contains.

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# Color

**Yxy(46.9220, 0.3173, 0.3239)**

# Conversions

## Conversions Part 1

Format	Color
Hex	BDB4B8
RGB	189, 180, 184
RGB Percent	74%, 71%, 72%
CMY	0.2587, 0.2941, 0.2785
CMYK	0.00, 0.05, 0.03, 0.26
HSL	333°, 6%, 72%
HSV	333°, 5%, 74%
XYZ	45.9659, 46.9220, 51.9778
YIQ	183.1470, 4.0800, 3.1520

# Conversions

## Conversions Part 2

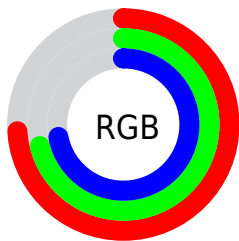
Format	Color
R <sub>Y</sub> B	189, 180, 184
Decimal	12432568
CIE Lab	74.14, 3.93, -0.89
CIE LCh	74, 4.033, 347.179
Yxy	46.9220, 0.3173, 0.3239
Android (android.graphics.Color)	4290622648 (0xFFBDB4B8)
YUV	183.1470, 0.4205, 5.1331
Hunter-Lab	68.4996, -0.0940, 2.9602

# Details

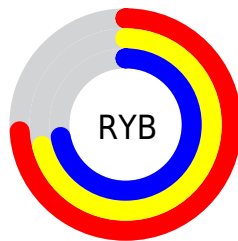
The Yxy color **46.9220, 0.3173, 0.3239** is a light color, and the websafe version is hex **CCCCCC**. A complement of this color would be **49.6194, 0.3084, 0.3342**, and the grayscale version is **47.4381, 0.3127, 0.3290**.

A 20% lighter version of the original color is **85.6947, 0.3162, 0.3250**, and **22.0517, 0.3190, 0.3221** is the 20% darker color. If you saturate the color by 10%, you get **39.3794, 0.3284, 0.3128**, and if you desaturate by 10%, it is **55.5426, 0.3082, 0.3344**.

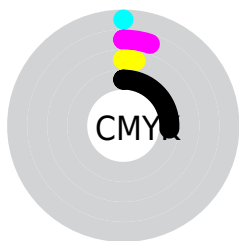
# Distribution



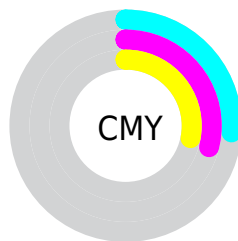
- Red (74%)
- Green (71%)
- Blue (72%)



- Red (74%)
- Yellow (71%)
- Blue (72%)



- Cyan (0%)
- Magenta (5%)
- Yellow (3%)
- Black (26%)




- Cyan (26%)
- Magenta (29%)
- Yellow (28%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 46.9220, 0.3173, 0.3239 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 46.9220, 0.3173, 0.3239 by changing the saturation by 10% instead.





 46.9220, 0.3173,  
0.3239

 46.9220, 0.3173,  
0.3239


374.5031, 0.3150,  
0.3265

 32.9740, 0.3179,  
0.3233


 85.5972, 0.3165,  
0.3248

 22.1065, 0.3186,  
0.3225

111.0931, 0.3162,  
0.3252

 13.9352, 0.3196,  
0.3214


141.2072, 0.3159,  
0.3255

 8.0756, 0.3209,  
0.3199

176.3238, 0.3157,  
0.3257

 4.1434, 0.3229,  
0.3176

216.8273, 0.3155,  
0.3259

 1.7541, 0.3263,  
0.3139

263.1021, 0.3153,

 0.4583, 0.3426,

0.3261

0.2954

315.5325, 0.3152,  
0.3263

0.0000, 0.0000,  
0.0000

46.9220, 0.3173,  
0.3239

46.9220, 0.3173,  
0.3239

39.3794, 0.3284,  
0.3128

55.5426, 0.3082,  
0.3344

32.8660, 0.3417,  
0.3011

65.2752, 0.3007,  
0.3441

27.3386, 0.3578,  
0.2893

76.1600, 0.2945,  
0.3530

22.7483, 0.3768,  
0.2778

87.8441, 0.2894,  
0.3605

19.0419, 0.3989,  
0.2675

88.4414, 0.2839,  
0.3487

■ 16.1612, 0.4239,  
0.2594

■ 89.0750, 0.2785,  
0.3372

■ 14.0405, 0.4512,  
0.2548

■ 89.5640, 0.2747,  
0.3289

■ 12.6044, 0.4794,  
0.2548

■ 11.7610, 0.5068,  
0.2601

# Harmonies

## Analogous

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



46.9220, 0.3117, 0.3205



46.9220, 0.3173, 0.3239



46.9220, 0.3217, 0.3286

# Triad

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



46.9220, 0.3173, 0.3239



46.9220, 0.3191, 0.3388



46.9220, 0.3018, 0.3244

# Complementary

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



46.9220, 0.3173, 0.3239



49.6194, 0.3084, 0.3342

# 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.



46.9220, 0.3038, 0.3293



46.9220, 0.3173, 0.3239



46.9220, 0.3137, 0.3377

# Square

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



46.9220, 0.3173, 0.3239



46.9220, 0.3228, 0.3372



46.9220, 0.3081, 0.3342



46.9220, 0.3028, 0.3208



# Rectangle

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



46.9220, 0.3173, 0.3239



46.9220, 0.3234, 0.3319



46.9220, 0.3081, 0.3342



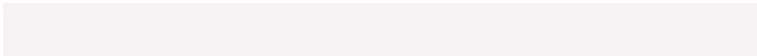
46.9220, 0.3022, 0.3260

# Sweetspot

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



46.9240, 0.3173, 0.3239



89.5879, 0.3137, 0.3279



46.6259, 0.3098, 0.3174



19.2825, 0.3136, 0.3280



95.5105, 0.3127, 0.3290



19.5994, 0.3127, 0.3290

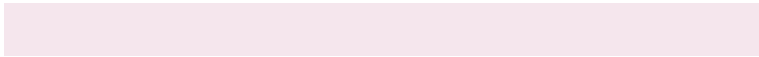


# Same Dimension

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



46.9240, 0.3173, 0.3239



82.1241, 0.3186, 0.3225



46.9415, 0.3205, 0.3296



10.0856, 0.3191, 0.3220



7.7205, 0.5176, 0.2625



0.3156, 0.4587, 0.2301

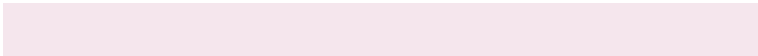


# Inverse Universe

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



46.9240, 0.3173, 0.3239



82.1241, 0.3186, 0.3225



49.5965, 0.3054, 0.3284



10.0856, 0.3191, 0.3220



7.7205, 0.5176, 0.2625

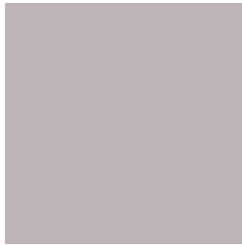


0.3156, 0.4587, 0.2301



# Previews

## White Background



This preview shows how the Yxy color 46.9220, 0.3173, 0.3239 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 46.9220, 0.3173, 0.3239 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

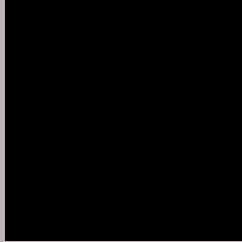
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

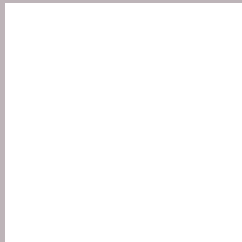
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 46.9220, 0.3173, 0.3239**

## **Background**



This preview shows how black text looks on a background with the Yxy color 46.9220, 0.3173, 0.3239.



This preview shows how white text looks on a background with the Yxy color 46.9220, 0.3173, 0.3239.

# 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

46.9220, 0.3173, 0.3239

### Protanopia

46.8648, 0.3130, 0.3239

### Deuteranopia

47.0892, 0.3255, 0.3191



## Tritanopia

47.0376, 0.3110, 0.3114

# Trichromacy



## Original Color

46.9220, 0.3173, 0.3239

## Protanomaly

46.9896, 0.3138, 0.3239

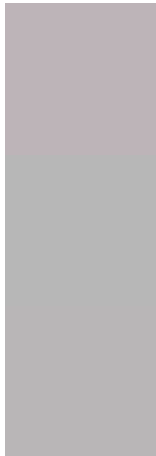
## Deuteranomaly

46.9457, 0.3218, 0.3202

## Tritanomaly

46.9051, 0.3134, 0.3151

# Monochromacy



## Original Color

46.9220, 0.3173, 0.3239

## Achromatopsia

47.3531, 0.3127, 0.3290

## Achromatomaly

47.1891, 0.3145, 0.3277

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 46.9220, 0.3173, 0.3239 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, 180, 184)` looks like.

```
.text, #text, p{  
    color:rgb(189, 180, 184)  
}
```

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, 180, 184) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(189, 180, 184) }
```

## Border

The CSS property to change the border of an element to Yxy 46.9220, 0.3173, 0.3239 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, 180, 184) }
```

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

```
.border{ border-color:rgb(189, 180, 184) }
```

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

Here you see how a box with a 4 pixel `rgb(189, 180, 184)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(189, 180, 184); -webkit-box-  
shadow:4px 4px 4px 4px rgb(189, 180, 184);  
box-shadow:4px 4px 4px 4px rgb(189, 180,  
184) }
```



# Background

The CSS property to change the background color of an element to Yxy 46.9220, 0.3173, 0.3239 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(189, 180, 184) }
```

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

```
.background{ background-color: rgb(189,  
180, 184) }
```

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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