

# Converting Colors

$Y_{xy}(46.7871, 0.3133, 0.3170)$

Have a look what the booklet for  
Yxy(46.7871, 0.3133, 0.3170)  
contains.

|   |    |
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# Color

**Yxy(46.7331, 0.3133, 0.3163)**

# Conversions

## Conversions Part 1

| Format      | Color                     |
|-------------|---------------------------|
| Hex         | BDB3BD                    |
| RGB         | 189, 179, 189             |
| RGB Percent | 74%, 70%, 74%             |
| CMY         | 0.2589, 0.2980, 0.2588    |
| CMYK        | 0.00, 0.05, 0.00, 0.26    |
| HSL         | 300°, 7%, 72%             |
| HSV         | 300°, 5%, 74%             |
| XYZ         | 46.2899, 46.7331, 54.7263 |
| YIQ         | 183.1300, 2.7500, 5.2300  |

# Conversions

## Conversions Part 2

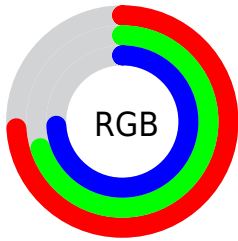
| <b>Format</b>                       | <b>Color</b>                |
|-------------------------------------|-----------------------------|
| <b>RYB</b>                          | 189, 179, 189               |
| Decimal                             | 12432317                    |
| CIELab                              | 74.02, 5.37, -3.81          |
| CIElCh                              | 74, 6.589, 324.654          |
| Yxy                                 | 46.7331, 0.3133,<br>0.3163  |
| Android<br>(android.graphics.Color) | 4290622397<br>(0xFFBDB3BD)  |
| YUV                                 | 183.1300, 2.8939,<br>5.1480 |
| Hunter-Lab                          | 68.3616, 1.2353,<br>0.3890  |

# Details

The Yxy color  $46.7331, 0.3133, 0.3163$  is a light color, and the websafe version is hex `CCCCCC`. A complement of this color would be  $49.2381, 0.3121, 0.3420$ , and the grayscale version is  $47.4120, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $85.4217, 0.3132, 0.3191$ , and  $21.9335, 0.3135, 0.3118$  is the 20% darker color. If you saturate the color by 10%, you get  $39.6673, 0.3144, 0.2917$ , and if you desaturate by 10%, it is  $54.8413, 0.3122, 0.3401$ .

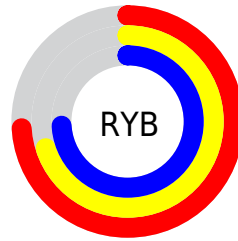
# Distribution



Red (74%)

Green (70%)

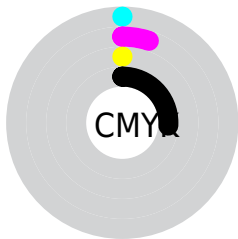
Blue (74%)



Red (74%)

Yellow (70%)

Blue (74%)

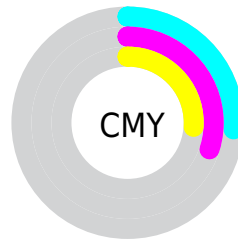


Cyan (0%)

Magenta (5%)

Yellow (0%)

Black (26%)



Cyan (26%)

Magenta (30%)


Yellow (26%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 46.7331, 0.3133, 0.3163 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 46.7331, 0.3133, 0.3163 by changing the saturation by 10% instead.





 46.7331, 0.3133,  
0.3163

 46.7331, 0.3133,  
0.3163


373.7482, 0.3130,  
0.3226

 32.8247, 0.3134,  
0.3147

 85.3151, 0.3132,  
0.3186

 21.9922, 0.3134,  
0.3128


110.7575, 0.3132,  
0.3194

 13.8512, 0.3135,  
0.3101


140.8133, 0.3131,  
0.3202

 8.0172, 0.3136,  
0.3065

175.8670, 0.3131,  
0.3208

 4.1060, 0.3137,  
0.3011

216.3029, 0.3131,  
0.3213

 1.7330, 0.3139,  
0.2923

262.5055, 0.3131,

 0.4449, 0.3166,

0.3218

0.2542

314.8591, 0.3131,  
0.3222

0.0000, 0.0000,  
0.0000

46.7331, 0.3133,  
0.3163

46.7331, 0.3133,  
0.3163

39.6673, 0.3144,  
0.2917

54.8413, 0.3122,  
0.3401

33.5960, 0.3156,  
0.2670

64.0255, 0.3112,  
0.3626

28.4763, 0.3167,  
0.2427

74.3252, 0.3102,  
0.3836

24.2600, 0.3177,  
0.2200

85.7761, 0.3093,  
0.4030

20.8946, 0.3186,  
0.1996

86.0286, 0.3093,  
0.4034

■ 18.3223, 0.3194,  
0.1825

■ 86.0319, 0.3093,  
0.4034

■ 16.4780, 0.3200,  
0.1694

■ 86.0352, 0.3093,  
0.4034

■ 15.2864, 0.3203,  
0.1604

■ 86.0386, 0.3093,  
0.4034

■ 14.6551, 0.3205,  
0.1555

■ 86.0419, 0.3094,  
0.4034

# Harmonies

## Analogous

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



46.7331, 0.3043, 0.3134



46.7331, 0.3133, 0.3163



46.7331, 0.3223, 0.3224

# Triad

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



46.7331, 0.3133, 0.3163



46.7331, 0.3280, 0.3435



46.7331, 0.2970, 0.3273

# Complementary

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



46.7331, 0.3133, 0.3163



49.2381, 0.3121, 0.3420

# 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.



46.7331, 0.3031, 0.3357



46.7331, 0.3133, 0.3163



46.7331, 0.3211, 0.3451

# Square

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



46.7331, 0.3133, 0.3163



46.7331, 0.3308, 0.3380



46.7331, 0.3119, 0.3422



46.7331, 0.2949, 0.3196



# Rectangle

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



46.7331, 0.3133, 0.3163



46.7331, 0.3270, 0.3276



46.7331, 0.3119, 0.3422



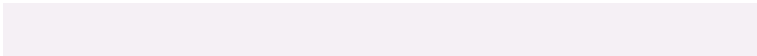
46.7331, 0.2986, 0.3302

# Sweetspot

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



46.7351, 0.3133, 0.3163



88.2193, 0.3129, 0.3242



45.5690, 0.3048, 0.3162



19.0031, 0.3129, 0.3244



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.



46.7351, 0.3133, 0.3163



82.6092, 0.3134, 0.3143



46.5305, 0.3172, 0.3224



10.1499, 0.3134, 0.3132



9.7292, 0.3206, 0.1540



0.3813, 0.3207, 0.1540

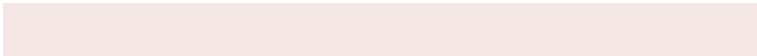


# Inverse Universe

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



46.3181, 0.3214, 0.3290



81.7531, 0.3228, 0.3290



49.4355, 0.3085, 0.3357



10.0365, 0.3236, 0.3290



7.2797, 0.6399, 0.3299



0.2852, 0.6392, 0.3295



# Previews

## White Background



This preview shows how the Yxy color 46.7331, 0.3133, 0.3163 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

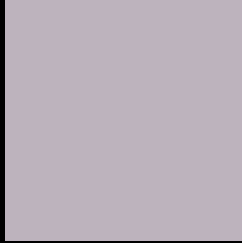
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 46.7331, 0.3133, 0.3163 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

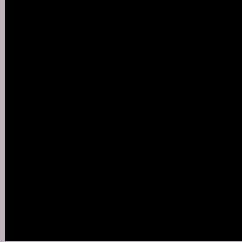
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

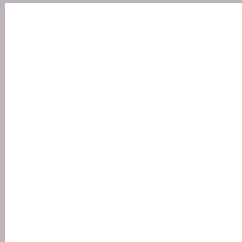
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 46.7331, 0.3133, 0.3163**

## **Background**



This preview shows how black text looks on a background with the Yxy color 46.7331, 0.3133, 0.3163.



This preview shows how white text looks on a background with the Yxy color 46.7331, 0.3133, 0.3163.

# 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

46.7331, 0.3133, 0.3163

### Protanopia

46.8327, 0.3073, 0.3174

### Deuteranopia

46.5041, 0.3188, 0.3115



## Tritanopia

46.6382, 0.3110, 0.3101

# Trichromacy



## Original Color

46.7331, 0.3133, 0.3163

## Protanomaly

46.6745, 0.3091, 0.3162

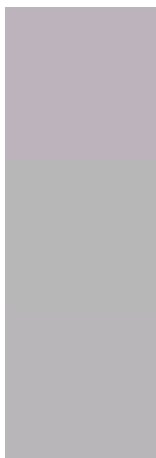
## Deuteranomaly

46.4994, 0.3161, 0.3127

## Tritanomaly

46.5937, 0.3118, 0.3113

# Monochromacy



## Original Color

46.7331, 0.3133, 0.3163

## Achromatopsia

47.3531, 0.3127, 0.3290

## Achromatomaly

47.2730, 0.3129, 0.3251

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 46.7331, 0.3133, 0.3163 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, 179, 189)` looks like.

```
.text, #text, p{  
    color:rgb(189, 179, 189)  
}
```

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, 179, 189) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(189, 179, 189) }
```

## Border

The CSS property to change the border of an element to Yxy 46.7331, 0.3133, 0.3163 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, 179, 189) }
```

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

```
.border{ border-color:rgb(189, 179, 189) }
```

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

Here you see how a box with a 4 pixel `rgb(189, 179, 189)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(189, 179, 189); -webkit-box-  
shadow:4px 4px 4px 4px rgb(189, 179, 189);  
box-shadow:4px 4px 4px 4px rgb(189, 179,  
189) }
```



# Background

The CSS property to change the background color of an element to Yxy 46.7331, 0.3133, 0.3163 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(189, 179, 189) }
```

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

```
.background{ background-color: rgb(189,  
179, 189) }
```

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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