

# Converting Colors

$Y_{xy}(50.4209, 0.3117, 0.3301)$

Have a look what the booklet for  
Yxy(50.4209, 0.3117, 0.3301)  
contains.

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# **Color**

**Yxy(50.5908, 0.3118, 0.3303)**

# Conversions

## Conversions Part 1

Format	Color
Hex	BBBDBC
RGB	187, 189, 188
RGB Percent	73%, 74%, 74%
CMY	0.2669, 0.2587, 0.2628
CMYK	0.01, 0.00, 0.01, 0.26
HSL	150°, 2%, 74%
HSV	150°, 1%, 74%
XYZ	47.7572, 50.5908, 54.8182
YIQ	188.2880, -0.8710, -0.7350

# Conversions

## Conversions Part 2

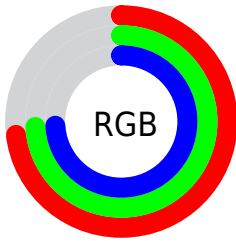
Format	Color
<a href="#">RYB</a>	<a href="#">187, 188, 189</a>
Decimal	<a href="#">12303804</a>
CIELab	<a href="#">76.43, -0.91, 0.26</a>
CIELCh	<a href="#">76, 0.943, 164.157</a>
Yxy	<a href="#">50.5908, 0.3118, 0.3303</a>
Android (android.graphics.Color)	<a href="#">4290493884</a> ( <a href="#">0xFFBBBDBC</a> )
YUV	<a href="#">188.2880, -0.1420, -1.1296</a>
Hunter-Lab	<a href="#">71.1272, -4.6217, 4.0939</a>

# Details

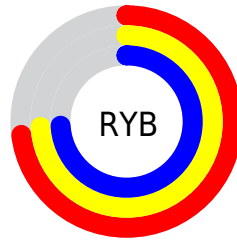
The Yxy color **50.5908, 0.3118, 0.3303** is a light color, and the websafe version is hex **CCCCCC**. A complement of this color would be **49.9694, 0.3136, 0.3277**, and the grayscale version is **50.4594, 0.3127, 0.3290**.

A 20% lighter version of the original color is **90.8912, 0.3120, 0.3300**, and **24.4259, 0.3115, 0.3307** is the 20% darker color. If you saturate the color by 10%, you get **47.9722, 0.3035, 0.3430**, and if you desaturate by 10%, it is **53.5539, 0.3201, 0.3191**.

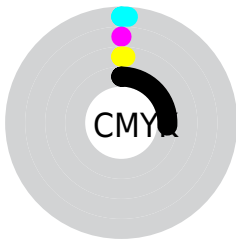
# Distribution



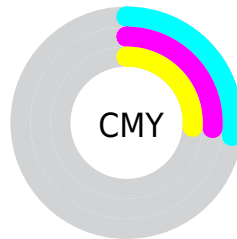
- Red (73%)
- Green (74%)
- Blue (74%)



- Red (73%)
- Yellow (74%)
- Blue (74%)



- Cyan (1%)
- Magenta (0%)
- Yellow (1%)
- Black (26%)



- Cyan (27%)
- Magenta (26%)
- Yellow (26%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 50.5908, 0.3118, 0.3303 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 50.5908, 0.3118, 0.3303 by changing the saturation by 10% instead.



■ 50.5908, 0.3118,  
0.3303

■ 50.5908, 0.3118,  
0.3303

388.9719, 0.3123,  
0.3297

■ 35.8831, 0.3117,  
0.3305

■ 91.0496, 0.3120,  
0.3301

■ 24.3439, 0.3115,  
0.3307

117.5695, 0.3120,  
0.3300

■ 15.5889, 0.3114,  
0.3309

148.7955, 0.3121,  
0.3299

■ 9.2337, 0.3111,  
0.3313

185.1121, 0.3121,  
0.3299

■ 4.8940, 0.3107,  
0.3318

226.9036, 0.3122,  
0.3298

■ 2.1852, 0.3101,  
0.3327

274.5545, 0.3122,


■ 0.7119, 0.3082,

0.3297

0.3352


328.4491, 0.3122,  
0.3297

 0.0000, 0.0000,  
0.0000

 50.5908, 0.3118,  
0.3303


 50.5908, 0.3118,  
0.3303


 47.9722, 0.3035,  
0.3430

 53.5539, 0.3201,  
0.3191


 45.6790, 0.2955,  
0.3571


 56.8669, 0.3284,  
0.3091

 43.6999, 0.2879,  
0.3726

 60.5436, 0.3364,  
0.3004

 42.0204, 0.2812,  
0.3895

 63.1334, 0.3381,  
0.2920

 40.6249, 0.2756,  
0.4076

 63.6626, 0.3307,  
0.2829

■ 39.4964, 0.2713,  
0.4265

■ 64.2205, 0.3236,  
0.2740

■ 38.6159, 0.2689,  
0.4459

■ 64.8076, 0.3166,  
0.2655

■ 37.9620, 0.2683,  
0.4653

■ 64.8845, 0.3157,  
0.2644

■ 37.5089, 0.2697,  
0.4841

# Harmonies

## Analogous

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



50.5908, 0.3131, 0.3310



50.5908, 0.3118, 0.3303



50.5908, 0.3108, 0.3292

# Triad

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



50.5908, 0.3118, 0.3303



50.5908, 0.3112, 0.3268



50.5908, 0.3152, 0.3300

# Complementary

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



50.5908, 0.3118, 0.3303



49.9694, 0.3136, 0.3277

# 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.



50.5908, 0.3147, 0.3288



50.5908, 0.3118, 0.3303



50.5908, 0.3124, 0.3270

# Square

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



50.5908, 0.3118, 0.3303



50.5908, 0.3104, 0.3272



50.5908, 0.3137, 0.3278



50.5908, 0.3151, 0.3308



# Rectangle

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



50.5908, 0.3118, 0.3303



50.5908, 0.3103, 0.3284



50.5908, 0.3137, 0.3278



50.5908, 0.3151, 0.3296

# Sweetspot

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



50.5930, 0.3118, 0.3303



91.1408, 0.3127, 0.3290



50.6794, 0.3134, 0.3316



19.5994, 0.3127, 0.3290



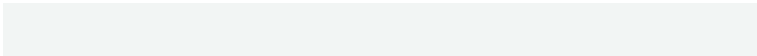
95.5105, 0.3127, 0.3290

# Same Dimension

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



50.5930, 0.3118, 0.3303



90.6298, 0.3119, 0.3302



50.6376, 0.3110, 0.3290



11.2222, 0.3119, 0.3301



25.0591, 0.2716, 0.4979



0.9948, 0.2594, 0.4539

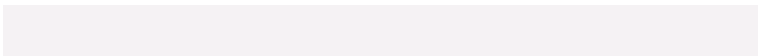


# Inverse Universe

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



49.9694, 0.3136, 0.3277



89.5961, 0.3136, 0.3278



49.9251, 0.3144, 0.3290



11.1044, 0.3135, 0.3279



7.8385, 0.4945, 0.2498

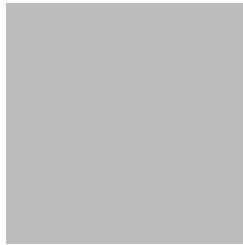


0.3203, 0.4422, 0.2210



# Previews

## White Background



This preview shows how the Yxy color 50.5908, 0.3118, 0.3303 looks on a white background.

## Color Contrast Check

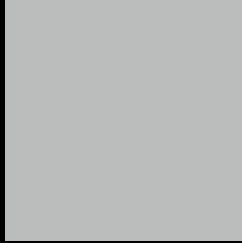
Large Text (above 18pt) WCAG AA × Fail

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 50.5908, 0.3118, 0.3303 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

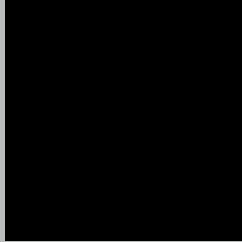
Any Text WCAG AAA ✓ Pass

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

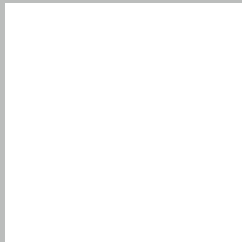


**Yxy 50.5908, 0.3118, 0.3303**

## Background



This preview shows how black text looks on a background with the Yxy color 50.5908, 0.3118, 0.3303.

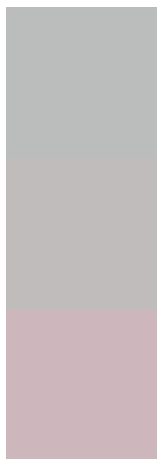


This preview shows how white text looks on a background with the Yxy color 50.5908, 0.3118, 0.3303.

# 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

50.5908, 0.3118, 0.3303

### Protanopia

50.7608, 0.3168, 0.3303

### Deuteranopia

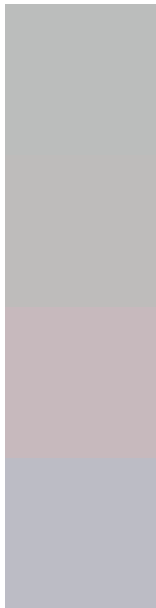
50.2518, 0.3277, 0.3206



## Tritanopia

50.6237, 0.3030, 0.3104

# Trichromacy



## Original Color

50.5908, 0.3118, 0.3303

## Protanomaly

50.5014, 0.3151, 0.3303

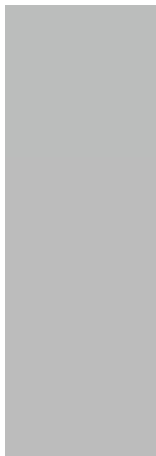
## Deuteranomaly

50.5142, 0.3214, 0.3241

## Tritanomaly

50.6890, 0.3059, 0.3178

# Monochromacy



## Original Color

50.5908, 0.3118, 0.3303

## Achromatopsia

50.2886, 0.3127, 0.3290

## Achromatomaly

50.2886, 0.3127, 0.3290

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 50.5908, 0.3118, 0.3303 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(187, 189, 188)` looks like.

```
.text, #text, p{  
    color:rgb(187, 189, 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(187, 189, 188) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(187, 189, 188) }
```

## Border

The CSS property to change the border of an element to Yxy 50.5908, 0.3118, 0.3303 is called "border". The border property can be set on classes, ids or directly on the HTML element.

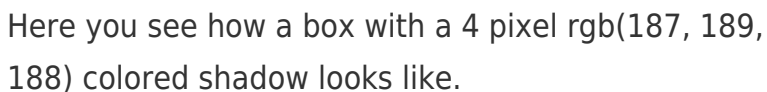
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(187, 189, 188) }
```

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

```
.border{ border-color:rgb(187, 189, 188) }
```

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



Here you see how a box with a 4 pixel `rgb(187, 189, 188)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(187, 189, 188); -webkit-box-shadow:4px 4px 4px 4px rgb(187, 189, 188); box-shadow:4px 4px 4px 4px rgb(187, 189, 188) }
```

# Background

The CSS property to change the background color of an element to Yxy 50.5908, 0.3118, 0.3303 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(187, 189, 188) }
```

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

```
.background{ background-color: rgb(187,  
189, 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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