

# Converting Colors

$Y_{xy}(50.2968, 0.3297, 0.3571)$

Have a look what the booklet for  
Yxy(50.2968, 0.3297, 0.3571)  
contains.

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# Color

**Yxy(50.0412, 0.3291, 0.3560)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	BDBDA8
RGB	189, 189, 168
RGB Percent	74%, 74%, 66%
CMY	0.2586, 0.2589, 0.3412
CMYK	0.00, 0.00, 0.11, 0.26
HSL	60°, 14%, 70%
HSV	60°, 11%, 74%
XYZ	46.2600, 50.0412, 44.2640
YIQ	186.6060, 6.7410, -6.5310

# Conversions

## Conversions Part 2

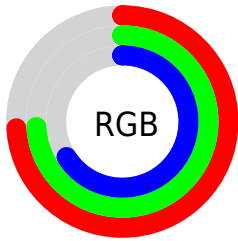
<b>Format</b>	<b>Color</b>
<b>RYB</b>	168, 189, 168
Decimal	12434856
CIELab	76.09, -3.66, 10.63
CIELCh	76, 11.237, 108.996
Yxy	50.0412, 0.3291, 0.3560
Android (android.graphics.Color)	4290624936 (0xFFBDBDA8)
YUV	186.6060, -9.1728, 2.0995
Hunter-Lab	70.7398, -7.0653, 12.4184

# Details

The Yxy color **50.0412, 0.3291, 0.3560** is a light color, and the websafe version is hex **CCCCCC**. A complement of this color would be **40.0253, 0.2954, 0.3005**, and the grayscale version is **49.5148, 0.3127, 0.3290**.

A 20% lighter version of the original color is **90.0450, 0.3261, 0.3511**, and **24.1035, 0.3339, 0.3640** is the 20% darker color. If you saturate the color by 10%, you get **49.3675, 0.3442, 0.3808**, and if you desaturate by 10%, it is **50.8218, 0.3144, 0.3317**.

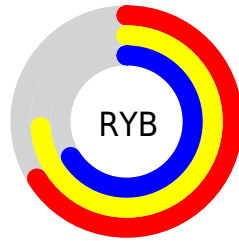
# Distribution



Red (74%)

Green (74%)

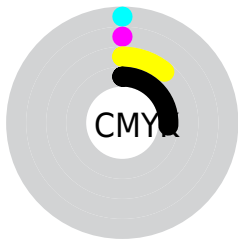
Blue (66%)



Red (66%)

Yellow (74%)

Blue (66%)

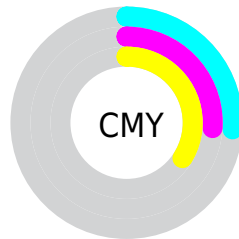


Cyan (0%)

Magenta (0%)

Yellow (11%)

Black (26%)



Cyan (26%)

Magenta (26%)


Yellow (34%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 50.0412, 0.3291, 0.3560 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 50.0412, 0.3291, 0.3560 by changing the saturation by 10% instead.




 50.0412, 0.3291,  
0.3560

 50.0412, 0.3291,  
0.3560


386.8270, 0.3211,  
0.3426

 35.4461, 0.3311,  
0.3593


 90.2359, 0.3262,  
0.3511

 24.0067, 0.3336,  
0.3636


 116.6044, 0.3251,  
0.3493

 15.3386, 0.3368,  
0.3693


147.6660, 0.3242,  
0.3477

 9.0574, 0.3413,  
0.3772

183.8054, 0.3234,  
0.3464

 4.7786, 0.3477,  
0.3889

225.4068, 0.3227,  
0.3453

 2.1180, 0.3578,  
0.4079

272.8546, 0.3221,

 0.6747, 0.4500,

0.3442

0.5500

326.5332, 0.3215,  
0.3434

0.0000, 0.0000,  
0.0000

50.0412, 0.3291,  
0.3560

50.0412, 0.3291,  
0.3560

49.3675, 0.3442,  
0.3808

50.8218, 0.3144,  
0.3317

48.7896, 0.3591,  
0.4055

51.7067, 0.3002,  
0.3084

48.3051, 0.3735,  
0.4291

52.7021, 0.2870,  
0.2866

47.9088, 0.3866,  
0.4507

53.8117, 0.2747,  
0.2663

47.5951, 0.3980,  
0.4694

54.5452, 0.2678,  
0.2549

■ 47.3577, 0.4072,  
0.4844

■ 54.5670, 0.2678,  
0.2550

■ 47.1896, 0.4138,  
0.4952

■ 54.5888, 0.2678,  
0.2550

■ 47.0823, 0.4178,  
0.5018

■ 54.6106, 0.2678,  
0.2551

■ 47.0234, 0.4198,  
0.5049

■ 54.6324, 0.2678,  
0.2552

# Harmonies

## Analogous

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



50.0412, 0.3397, 0.3517



50.0412, 0.3291, 0.3560



50.0412, 0.3142, 0.3527

# Triad

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



50.0412, 0.3291, 0.3560



50.0412, 0.2833, 0.3153



50.0412, 0.3260, 0.3159

# Complementary

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



50.0412, 0.3291, 0.3560



40.0253, 0.2954, 0.3005

# 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.



50.0412, 0.3106, 0.3067



50.0412, 0.3291, 0.3560



50.0412, 0.2862, 0.3061

# Square

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



50.0412, 0.3291, 0.3560



50.0412, 0.2880, 0.3287



50.0412, 0.2961, 0.3031



50.0412, 0.3380, 0.3285



# Rectangle

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



50.0412, 0.3291, 0.3560



50.0412, 0.3040, 0.3466



50.0412, 0.2961, 0.3031



50.0412, 0.3210, 0.3123

# Sweetspot

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



50.0434, 0.3291, 0.3560



90.6896, 0.3171, 0.3363



41.6689, 0.3320, 0.3286



19.4774, 0.3183, 0.3382



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.



50.0434, 0.3291, 0.3560



89.3118, 0.3322, 0.3611



48.8113, 0.3204, 0.3568



11.1160, 0.3264, 0.3516



31.6230, 0.4198, 0.5049



1.2401, 0.4197, 0.5050



# Inverse Universe

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



40.0253, 0.2954, 0.3005



68.3422, 0.2919, 0.2947



41.1653, 0.3043, 0.3012



9.2294, 0.2984, 0.3053



2.4812, 0.1501, 0.0602



0.0986, 0.1503, 0.0610



# Previews

## White Background



This preview shows how the Yxy color 50.0412, 0.3291, 0.3560 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

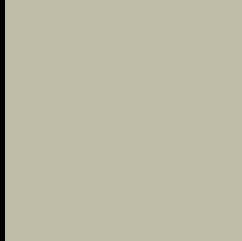
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 50.0412, 0.3291, 0.3560 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

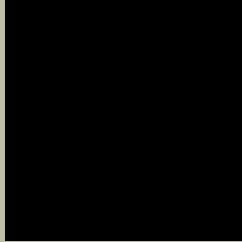
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

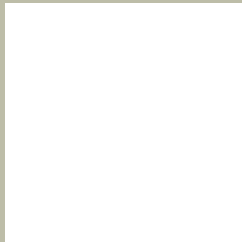
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 50.0412, 0.3291, 0.3560**

## **Background**



This preview shows how black text looks on a background with the Yxy color 50.0412, 0.3291, 0.3560.



This preview shows how white text looks on a background with the Yxy color 50.0412, 0.3291, 0.3560.

# 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

50.0412, 0.3291, 0.3560

### Protanopia

50.0664, 0.3362, 0.3543

### Deuteranopia

49.9471, 0.3492, 0.3424



## Tritanopia

49.7420, 0.3086, 0.3105

# Trichromacy



## Original Color

50.0412, 0.3291, 0.3560

## Protanomaly

50.0939, 0.3335, 0.3558

## Deuteranomaly

49.9829, 0.3422, 0.3476

## Tritanomaly

49.9551, 0.3162, 0.3265

# Monochromacy



## Original Color

50.0412, 0.3291, 0.3560

## Achromatopsia

49.6933, 0.3127, 0.3290

## Achromatomaly

49.9531, 0.3189, 0.3392

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 50.0412, 0.3291, 0.3560 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, 189, 168)` looks like.

```
.text, #text, p{  
    color:rgb(189, 189, 168)  
}
```

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, 189, 168) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(189, 189, 168) }
```

## Border

The CSS property to change the border of an element to Yxy 50.0412, 0.3291, 0.3560 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, 189, 168) }
```

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

```
.border{ border-color:rgb(189, 189, 168) }
```

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

Here you see how a box with a 4 pixel `rgb(189, 189, 168)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(189, 189, 168); -webkit-box-  
shadow:4px 4px 4px 4px rgb(189, 189, 168);  
box-shadow:4px 4px 4px 4px rgb(189, 189,  
168) }
```



# Background

The CSS property to change the background color of an element to Yxy 50.0412, 0.3291, 0.3560 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(189, 189, 168) }
```

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

```
.background{ background-color: rgb(189,  
189, 168) }
```

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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