

# Converting Colors

$Y_{xy}(45.8590, 0.3217, 0.3239)$

Have a look what the booklet for  
Yxy(45.8590, 0.3217, 0.3239)  
contains.

<b>Yxy(45.8568, 0.3217, 0.3239)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

# Color

**Yxy(45.8568, 0.3217, 0.3239)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	<a href="#">BFB1B5</a>
RGB	<a href="#">191, 177, 181</a>
RGB Percent	<a href="#">75%, 69%, 71%</a>
CMY	<a href="#">0.2511, 0.3058, 0.2901</a>
CMYK	<a href="#">0.00, 0.07, 0.05, 0.25</a>
HSL	<a href="#">343°, 10%, 72%</a>
HSV	<a href="#">343°, 7%, 75%</a>
XYZ	<a href="#">45.5453, 45.8568, 50.1749</a>
YIQ	<a href="#">181.6420, 7.0600, 4.2120</a>

# Conversions

## Conversions Part 2

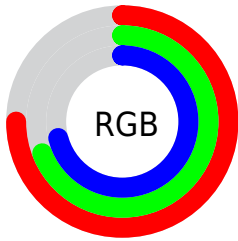
<b>Format</b>	<b>Color</b>
<b>RYB</b>	191, 177, 181
Decimal	12562869
CIELab	73.45, 5.69, -0.25
CIELCh	73, 5.700, 357.471
Yxy	45.8568, 0.3217, 0.3239
Android (android.graphics.Color)	4290752949 (0xFFBFB1B5)
YUV	181.6420, -0.3165, 8.2070
Hunter-Lab	67.7176, 1.5491, 3.4719

# Details

The Yxy color **45.8568, 0.3217, 0.3239** is a light color, and the websafe version is hex **CCCCCC**. A complement of this color would be **50.1869, 0.3045, 0.3342**, and the grayscale version is **46.5732, 0.3127, 0.3290**.

A 20% lighter version of the original color is **84.1664, 0.3197, 0.3250**, and **21.3771, 0.3252, 0.3221** is the 20% darker color. If you saturate the color by 10%, you get **38.3021, 0.3364, 0.3165**, and if you desaturate by 10%, it is **54.5260, 0.3097, 0.3308**.

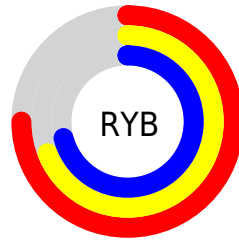
# Distribution



Red (75%)

Green (69%)

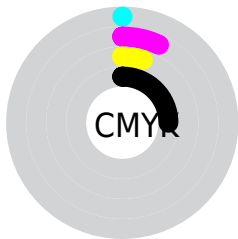
Blue (71%)



Red (75%)

Yellow (69%)

Blue (71%)

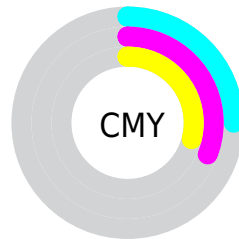


Cyan (0%)

Magenta (7%)

Yellow (5%)

Black (25%)



Cyan (25%)

Magenta (31%)


Yellow (29%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 45.8568, 0.3217, 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 45.8568, 0.3217, 0.3239 by changing the saturation by 10% instead.





 45.8568, 0.3217,  
0.3239

 45.8568, 0.3217,  
0.3239


370.2326, 0.3172,  
0.3265

 32.1328, 0.3228,  
0.3233


 84.0046, 0.3201,  
0.3248

 21.4630, 0.3243,  
0.3224


109.1973, 0.3194,  
0.3252

 13.4628, 0.3262,  
0.3213


138.9817, 0.3189,  
0.3255

 7.7480, 0.3290,  
0.3198

173.7421, 0.3185,  
0.3257

 3.9341, 0.3331,  
0.3174

213.8630, 0.3181,  
0.3260

 1.6368, 0.3399,  
0.3136

259.7288, 0.3178,

 0.3822, 0.3810,

0.3261

0.2899

311.7239, 0.3175,  
0.3263

0.0000, 0.0000,  
0.0000

45.8568, 0.3217,  
0.3239

45.8568, 0.3217,  
0.3239

38.3021, 0.3364,  
0.3165

54.5260, 0.3097,  
0.3308

31.8108, 0.3544,  
0.3088

64.3461, 0.3000,  
0.3372

26.3365, 0.3762,  
0.3011

75.3597, 0.2920,  
0.3430

21.8273, 0.4025,  
0.2938

87.6049, 0.2855,  
0.3483

18.2265, 0.4332,  
0.2878

89.4405, 0.2786,  
0.3352

■ 15.4715, 0.4679,  
0.2840

■ 89.8135, 0.2757,  
0.3289

■ 13.4916, 0.5048,  
0.2835

■ 12.2047, 0.5411,  
0.2874

■ 11.4947, 0.5734,  
0.2954

# Harmonies

## Analogous

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



45.8568, 0.3140, 0.3183



45.8568, 0.3217, 0.3239



45.8568, 0.3270, 0.3309

# Triad

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



45.8568, 0.3217, 0.3239



45.8568, 0.3193, 0.3429



45.8568, 0.2973, 0.3203

# Complementary

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



45.8568, 0.3217, 0.3239



50.1869, 0.3045, 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.



45.8568, 0.2986, 0.3269



45.8568, 0.3217, 0.3239



45.8568, 0.3113, 0.3401

# Square

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



45.8568, 0.3217, 0.3239



45.8568, 0.3256, 0.3419



45.8568, 0.3038, 0.3342



45.8568, 0.3000, 0.3162



# Rectangle

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



45.8568, 0.3217, 0.3239



45.8568, 0.3284, 0.3354



45.8568, 0.3038, 0.3342



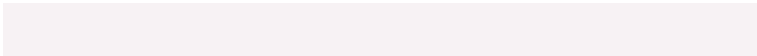
45.8568, 0.2973, 0.3223

# Sweetspot

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



45.8588, 0.3217, 0.3239



90.1031, 0.3151, 0.3276



45.7471, 0.3099, 0.3112



19.8206, 0.3150, 0.3277



97.7402, 0.3127, 0.3290



20.4902, 0.3127, 0.3290



# Same Dimension

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



45.8588, 0.3217, 0.3239



79.5324, 0.3242, 0.3226



46.8117, 0.3247, 0.3326



9.5802, 0.3244, 0.3224



7.4714, 0.5780, 0.2958



0.3044, 0.5075, 0.2569

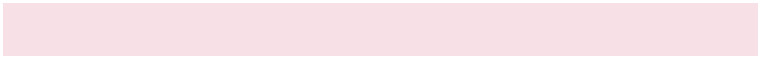


# Inverse Universe

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



45.8588, 0.3217, 0.3239



79.5324, 0.3242, 0.3226



49.1542, 0.3016, 0.3254



9.5802, 0.3244, 0.3224



7.4714, 0.5780, 0.2958



0.3044, 0.5075, 0.2569



# Previews

## White Background



This preview shows how the Yxy color 45.8568, 0.3217, 0.3239 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

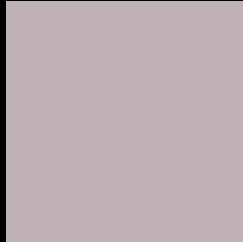
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 45.8568, 0.3217, 0.3239 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

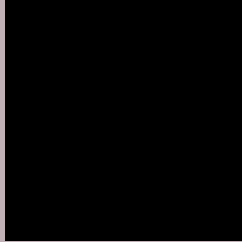
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 45.8568, 0.3217, 0.3239**

## **Background**



This preview shows how black text looks on a background with the Yxy color 45.8568, 0.3217, 0.3239.



This preview shows how white text looks on a background with the Yxy color 45.8568, 0.3217, 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

45.8568, 0.3217, 0.3239

### Protanopia

46.0872, 0.3137, 0.3264

### Deuteranopia

45.8665, 0.3273, 0.3215



## Tritanopia

45.9313, 0.3161, 0.3126

# Trichromacy



## Original Color

45.8568, 0.3217, 0.3239

## Protanomaly

46.0567, 0.3164, 0.3251

## Deuteranomaly

45.9890, 0.3254, 0.3227

## Tritanomaly

45.8023, 0.3186, 0.3163

# Monochromacy



## Original Color

45.8568, 0.3217, 0.3239

## Achromatopsia

46.7784, 0.3127, 0.3290

## Achromatomaly

46.3342, 0.3154, 0.3264

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 45.8568, 0.3217, 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(191, 177, 181)` looks like.

```
.text, #text, p{  
    color:rgb(191, 177, 181)  
}
```

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(191, 177, 181) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(191, 177, 181) }
```

## Border

The CSS property to change the border of an element to Yxy 45.8568, 0.3217, 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(191, 177, 181) }
```

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

```
.border{ border-color:rgb(191, 177, 181) }
```

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

Here you see how a box with a 4 pixel `rgb(191, 177, 181)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(191, 177, 181); -webkit-box-  
shadow:4px 4px 4px 4px rgb(191, 177, 181);  
box-shadow:4px 4px 4px 4px rgb(191, 177,  
181) }
```



# Background

The CSS property to change the background color of an element to Yxy 45.8568, 0.3217, 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(191, 177, 181) }
```

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

```
.background{ background-color: rgb(191,  
177, 181) }
```

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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