

# Converting Colors

$Y_{xy}(45.2906, 0.2995, 0.3218)$

Have a look what the booklet for  
Yxy(45.2906, 0.2995, 0.3218)  
contains.

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# Color

**Yxy(45.1817, 0.2989, 0.3210)**

# Conversions

## Conversions Part 1

Format	Color
Hex	AAB5BB
RGB	170, 181, 187
RGB Percent	67%, 71%, 73%
CMY	0.3333, 0.2902, 0.2668
CMYK	0.09, 0.03, 0.00, 0.27
HSL	201°, 11%, 70%
HSV	201°, 9%, 73%
XYZ	42.0711, 45.1817, 53.5002
YIQ	178.3950, -8.4820, -0.4660

# Conversions

## Conversions Part 2

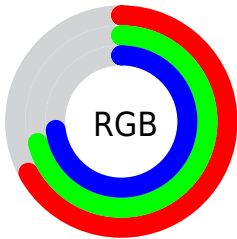
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	170, 177, 187
Decimal	11187643
CIE <sub>Lab</sub>	73.01, -2.62, -4.35
CIE <sub>LCh</sub>	73, 5.078, 238.980
Yxy	45.1817, 0.2989, 0.3210
Android (android.graphics.Color)	4289377723 (0xFFAAB5BB)
YUV	178.3950, 4.2423, -7.3624
Hunter-Lab	67.2173, -5.9079, -0.1385

# Details

The Yxy color  $45.1817, 0.2989, 0.3210$  is a light color, and the websafe version is hex `CCCCCC`. A complement of this color would be  $44.5090, 0.3275, 0.3369$ , and the grayscale version is  $44.7228, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $83.0470, 0.3013, 0.3228$ , and  $21.0111, 0.2950, 0.3179$  is the 20% darker color. If you saturate the color by 10%, you get  $40.6318, 0.2835, 0.3113$ , and if you desaturate by 10%, it is  $50.1582, 0.3141, 0.3298$ .

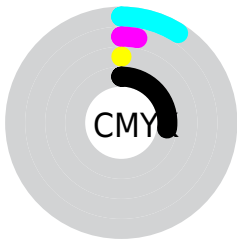
# Distribution



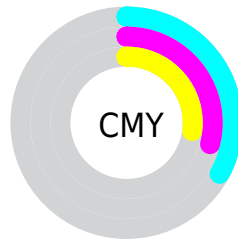
- Red (67%)
- Green (71%)
- Blue (73%)



- Red (67%)
- Yellow (69%)
- Blue (73%)



- Cyan (9%)
- Magenta (3%)
- Yellow (0%)
- Black (27%)



- Cyan (33%)
- Magenta (29%)
- Yellow (27%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 45.1817, 0.2989, 0.3210 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 45.1817, 0.2989, 0.3210 by changing the saturation by 10% instead.



■ 45.1817, 0.2989,  
0.3210

■ 45.1817, 0.2989,  
0.3210

367.5090, 0.3058,  
0.3251

■ 31.6006, 0.2972,  
0.3200

■ 82.9930, 0.3014,  
0.3225

■ 21.0566, 0.2949,  
0.3186

107.9920, 0.3024,  
0.3230

■ 13.1654, 0.2920,  
0.3169

137.5657, 0.3032,  
0.3235

■ 7.5425, 0.2878,  
0.3143

172.0985, 0.3038,  
0.3239

■ 3.8036, 0.2815,  
0.3105

211.9748, 0.3044,  
0.3243

■ 1.5643, 0.2711,  
0.3039

257.5791, 0.3050,

■ 0.3334, 0.2018,

0.3246

0.2659

309.2957, 0.3054,  
0.3248

0.0000, 0.0000,  
0.0000

45.1817, 0.2989,  
0.3210

45.1817, 0.2989,  
0.3210

40.6318, 0.2835,  
0.3113

50.1582, 0.3141,  
0.3298

36.4887, 0.2682,  
0.3006

55.5690, 0.3290,  
0.3376

32.7392, 0.2533,  
0.2891

61.4288, 0.3433,  
0.3446

29.3670, 0.2392,  
0.2769

67.7497, 0.3570,  
0.3508

26.3546, 0.2263,  
0.2640

72.8948, 0.3634,  
0.3568

■ 23.6827, 0.2149,  
0.2507

■ 76.2920, 0.3617,  
0.3634

■ 21.3296, 0.2053,  
0.2372

■ 79.8254, 0.3600,  
0.3699

■ 19.2699, 0.1977,  
0.2238

■ 83.4965, 0.3583,  
0.3762

■ 17.4602, 0.1920,  
0.2106

■ 87.3067, 0.3567,  
0.3824

# Harmonies

## Analogous

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



45.1817, 0.3000, 0.3268



45.1817, 0.2989, 0.3210



45.1817, 0.3015, 0.3174

# Triad

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



45.1817, 0.2989, 0.3210



45.1817, 0.3211, 0.3247



45.1817, 0.3183, 0.3414

# Complementary

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



45.1817, 0.2989, 0.3210



44.5090, 0.3275, 0.3369

# 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.



45.1817, 0.3240, 0.3407



45.1817, 0.2989, 0.3210



45.1817, 0.3257, 0.3310

# Square

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



45.1817, 0.2989, 0.3210



45.1817, 0.3142, 0.3196



45.1817, 0.3267, 0.3368



45.1817, 0.3111, 0.3387



# Rectangle

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



45.1817, 0.2989, 0.3210



45.1817, 0.3050, 0.3167



45.1817, 0.3267, 0.3368



45.1817, 0.3204, 0.3415

# Sweetspot

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



45.1836, 0.2989, 0.3210



86.2239, 0.3081, 0.3264



47.2089, 0.3071, 0.3438



18.8283, 0.3069, 0.3257



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.



45.1836, 0.2989, 0.3210



79.1684, 0.2957, 0.3190



41.8535, 0.2989, 0.3096



10.2289, 0.2985, 0.3207



12.0629, 0.1919, 0.2110



0.5911, 0.2007, 0.2425



# Inverse Universe

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



42.6535, 0.3188, 0.3147



73.7056, 0.3203, 0.3113



47.9231, 0.3263, 0.3477



9.6377, 0.3190, 0.3142



8.2474, 0.4331, 0.2159



0.3350, 0.3998, 0.1976



# Previews

## White Background



This preview shows how the Yxy color 45.1817, 0.2989, 0.3210 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 45.1817, 0.2989, 0.3210 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

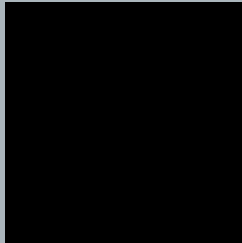
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

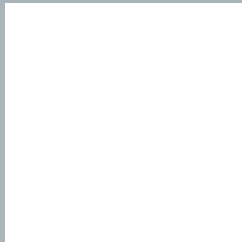
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 45.1817, 0.2989, 0.3210**

## **Background**



This preview shows how black text looks on a background with the Yxy color 45.1817, 0.2989, 0.3210.



This preview shows how white text looks on a background with the Yxy color 45.1817, 0.2989, 0.3210.

# 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

45.1817, 0.2989, 0.3210

### Protanopia

45.0469, 0.3088, 0.3198

### Deuteranopia

45.1094, 0.3171, 0.3113



## Tritanopia

45.1955, 0.2944, 0.3105

# Trichromacy



## Original Color

45.1817, 0.2989, 0.3210

## Protanomaly

45.0155, 0.3046, 0.3197

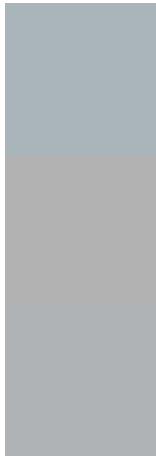
## Deuteranomaly

45.2655, 0.3099, 0.3148

## Tritanomaly

45.0620, 0.2967, 0.3144

# Monochromacy



## Original Color

45.1817, 0.2989, 0.3210

## Achromatopsia

44.5201, 0.3127, 0.3290

## Achromatomaly

44.6904, 0.3077, 0.3263

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 45.1817, 0.2989, 0.3210 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(170, 181, 187)` looks like.

```
.text, #text, p{  
    color:rgb(170, 181, 187)  
}
```

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(170, 181, 187) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(170, 181, 187) }
```

## Border

The CSS property to change the border of an element to Yxy 45.1817, 0.2989, 0.3210 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(170, 181, 187) }
```

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

```
.border{ border-color:rgb(170, 181, 187) }
```

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

Here you see how a box with a 4 pixel `rgb(170, 181, 187)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(170, 181, 187); -webkit-box-  
shadow:4px 4px 4px 4px rgb(170, 181, 187);  
box-shadow:4px 4px 4px 4px rgb(170, 181,  
187) }
```



# Background

The CSS property to change the background color of an element to Yxy 45.1817, 0.2989, 0.3210 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(170, 181, 187) }
```

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

```
.background{ background-color: rgb(170,  
181, 187) }
```

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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