

# Converting Colors

$Y_{xy}(45.1230, 0.3133, 0.3343)$

Have a look what the booklet for  
Yxy(45.1230, 0.3133, 0.3343)  
contains.

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# Color

**Yxy(45.1242, 0.3133, 0.3343)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B1B4B0
RGB	177, 180, 176
RGB Percent	69%, 71%, 69%
CMY	0.3059, 0.2941, 0.3097
CMYK	0.02, 0.00, 0.02, 0.29
HSL	105°, 3%, 70%
HSV	105°, 2%, 71%
XYZ	42.2896, 45.1242, 47.5674
YIQ	178.6470, -0.5040, -1.8800

# Conversions

## Conversions Part 2

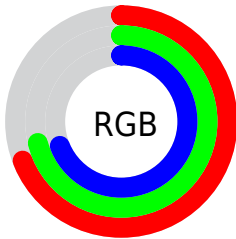
<b>Format</b>	<b>Color</b>
<b>RYB</b>	176, 180, 179
Decimal	11646128
CIELab	72.97, -1.80, 1.65
CIElCh	73, 2.436, 137.478
Yxy	45.1242, 0.3133, 0.3343
Android (android.graphics.Color)	4289836208 (0xFFB1B4B0)
YUV	178.6470, -1.3050, -1.4444
Hunter-Lab	67.1745, -5.1812, 5.0380

# Details

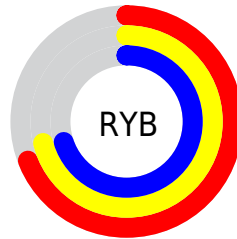
The Yxy color **45.1242, 0.3133, 0.3343** is a light color, and the websafe version is hex **CCCCCC**. A complement of this color would be **43.9439, 0.3121, 0.3237**, and the grayscale version is **44.8900, 0.3127, 0.3290**.

A 20% lighter version of the original color is **83.1407, 0.3132, 0.3331**, and **20.9191, 0.3125, 0.3345** is the 20% darker color. If you saturate the color by 10%, you get **42.9395, 0.3159, 0.3600**, and if you desaturate by 10%, it is **47.5670, 0.3106, 0.3114**.

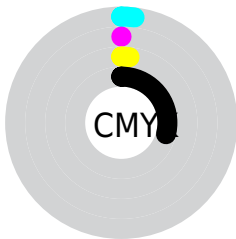
# Distribution



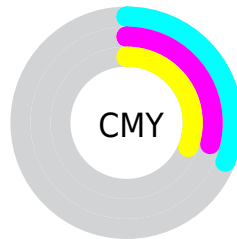
- Red (69%)
- Green (71%)
- Blue (69%)



- Red (69%)
- Yellow (71%)
- Blue (70%)



- Cyan (2%)
- Magenta (0%)
- Yellow (2%)
- Black (29%)



- Cyan (31%)
- Magenta (29%)
- Yellow (31%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 45.1242, 0.3133, 0.3343 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 45.1242, 0.3133, 0.3343 by changing the saturation by 10% instead.



■ 45.1242, 0.3133,  
0.3343

■ 45.1242, 0.3133,  
0.3343

367.2763, 0.3130,  
0.3316

■ 31.5553, 0.3134,  
0.3350

■ 82.9068, 0.3132,  
0.3333

■ 21.0220, 0.3135,  
0.3358

107.8892, 0.3132,  
0.3330

■ 13.1401, 0.3136,  
0.3370

137.4449, 0.3131,  
0.3327

■ 7.5251, 0.3137,  
0.3387

171.9582, 0.3131,  
0.3324

■ 3.7926, 0.3140,  
0.3412

211.8137, 0.3131,  
0.3322

■ 1.5582, 0.3144,  
0.3455

257.3956, 0.3131,

■ 0.3292, 0.3197,

0.3320

0.3912

309.0883, 0.3130,  
0.3318

0.0000, 0.0000,  
0.0000

45.1242, 0.3133,  
0.3343

45.1242, 0.3133,  
0.3343

42.9395, 0.3159,  
0.3600

47.5670, 0.3106,  
0.3114

40.9986, 0.3182,  
0.3884

50.2700, 0.3080,  
0.2912

39.2948, 0.3202,  
0.4192

53.2427, 0.3054,  
0.2734

37.8187, 0.3215,  
0.4517

56.4925, 0.3030,  
0.2578

36.5602, 0.3220,  
0.4846

59.2956, 0.3085,  
0.2538

■ 35.5087, 0.3215,  
0.5163

■ 61.1243, 0.3162,  
0.2556

■ 34.6524, 0.3197,  
0.5445

■ 33.9782, 0.3168,  
0.5675

■ 33.4712, 0.3129,  
0.5837

# Harmonies

## Analogous

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



45.1242, 0.3166, 0.3350



45.1242, 0.3133, 0.3343



45.1242, 0.3099, 0.3322

# Triad

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



45.1242, 0.3133, 0.3343



45.1242, 0.3066, 0.3240



45.1242, 0.3182, 0.3288

# Complementary

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



45.1242, 0.3133, 0.3343



43.9439, 0.3121, 0.3237

# 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.



45.1242, 0.3156, 0.3259



45.1242, 0.3133, 0.3343



45.1242, 0.3089, 0.3231

# Square

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



45.1242, 0.3133, 0.3343



45.1242, 0.3060, 0.3262



45.1242, 0.3121, 0.3238



45.1242, 0.3195, 0.3318



# Rectangle

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



45.1242, 0.3133, 0.3343



45.1242, 0.3080, 0.3302



45.1242, 0.3121, 0.3238



45.1242, 0.3175, 0.3278

# Sweetspot

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



45.1261, 0.3133, 0.3343



82.3226, 0.3130, 0.3314



45.0834, 0.3160, 0.3330



17.7978, 0.3130, 0.3313



91.1408, 0.3127, 0.3290



17.8868, 0.3127, 0.3290



# Same Dimension

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



45.1261, 0.3133, 0.3343



81.4681, 0.3135, 0.3364



45.0524, 0.3117, 0.3330



9.8577, 0.3137, 0.3380



23.1797, 0.3105, 0.5917



0.7569, 0.3313, 0.5751



# Inverse Universe

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



43.9439, 0.3121, 0.3237



78.5260, 0.3119, 0.3217



44.0192, 0.3138, 0.3251



9.4235, 0.3117, 0.3201



5.9983, 0.2609, 0.1211



0.2138, 0.2785, 0.1308



# Previews

## White Background



This preview shows how the Yxy color 45.1242, 0.3133, 0.3343 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

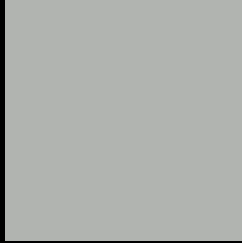
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 45.1242, 0.3133, 0.3343 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

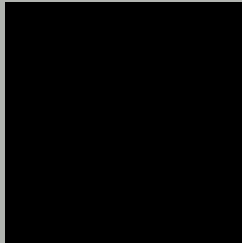
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

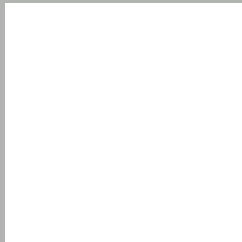
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 45.1242, 0.3133, 0.3343**

## **Background**



This preview shows how black text looks on a background with the Yxy color 45.1242, 0.3133, 0.3343.



This preview shows how white text looks on a background with the Yxy color 45.1242, 0.3133, 0.3343.

# 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

45.1242, 0.3133, 0.3343

### Protanopia

45.0032, 0.3195, 0.3330

### Deuteranopia

44.9318, 0.3310, 0.3240



## Tritanopia

45.2303, 0.3025, 0.3108

# Trichromacy



## Original Color

45.1242, 0.3133, 0.3343

## Protanomaly

45.1591, 0.3177, 0.3343

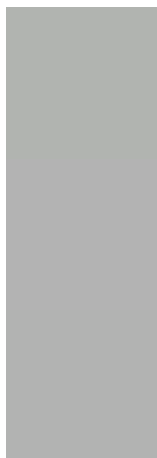
## Deuteranomaly

45.1721, 0.3243, 0.3277

## Tritanomaly

45.2503, 0.3063, 0.3198

# Monochromacy



## Original Color

45.1242, 0.3133, 0.3343

## Achromatopsia

45.0786, 0.3127, 0.3290

## Achromatomaly

44.9195, 0.3127, 0.3303

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 45.1242, 0.3133, 0.3343 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(177, 180, 176)` looks like.

```
.text, #text, p{  
    color:rgb(177, 180, 176)  
}
```

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(177, 180, 176) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(177, 180, 176) }
```

## Border

The CSS property to change the border of an element to Yxy 45.1242, 0.3133, 0.3343 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(177, 180, 176) }
```

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

```
.border{ border-color:rgb(177, 180, 176) }
```

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

Here you see how a box with a 4 pixel `rgb(177, 180, 176)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(177, 180, 176); -webkit-box-  
shadow:4px 4px 4px 4px rgb(177, 180, 176);  
box-shadow:4px 4px 4px 4px rgb(177, 180,  
176) }
```



# Background

The CSS property to change the background color of an element to Yxy 45.1242, 0.3133, 0.3343 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(177, 180, 176) }
```

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

```
.background{ background-color: rgb(177,  
180, 176) }
```

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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