

# Converting Colors

$Y_{xy}(45.1237, 0.3116, 0.3314)$

Have a look what the booklet for  
Yxy(45.1237, 0.3116, 0.3314)  
contains.

<b>Yxy(45.2040, 0.3117, 0.3317)</b> .....	3
<b>Conversions</b> .....	4
<b>Details</b> .....	6
<b>Harmonies</b> .....	12
<b>Previews</b> .....	24
<b>Color Blindness Simulation</b> .....	27
<b>CSS Examples</b> .....	30

# Color

**Yxy(45.2040, 0.3117, 0.3317)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B1B4B2
RGB	177, 180, 178
RGB Percent	69%, 71%, 70%
CMY	0.3061, 0.2940, 0.3020
CMYK	0.02, 0.00, 0.01, 0.29
HSL	140°, 2%, 70%
HSV	140°, 2%, 71%
XYZ	42.4784, 45.2040, 48.5974
YIQ	178.8750, -1.1460, -1.2580

# Conversions

## Conversions Part 2

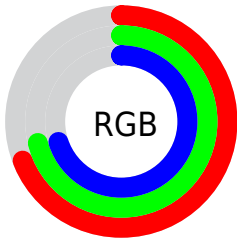
Format	Color
<a href="#">RYB</a>	<a href="#">177, 179, 180</a>
Decimal	<a href="#">11646130</a>
CIELab	<a href="#">73.03, -1.45, 0.65</a>
CIElCh	<a href="#">73, 1.593, 155.936</a>
Yxy	<a href="#">45.2040, 0.3117, 0.3317</a>
Android (android.graphics.Color)	<a href="#">4289836210 (0xFFB1B4B2)</a>
YUV	<a href="#">178.8750, -0.4314, -1.6444</a>
Hunter-Lab	<a href="#">67.2339, -4.8830, 4.2083</a>

# Details

The Yxy color **45.2040, 0.3117, 0.3317** is a light color, and the websafe version is hex **CCCCCC**. A complement of this color would be **44.3839, 0.3137, 0.3263**, and the grayscale version is **45.0088, 0.3127, 0.3290**.

A 20% lighter version of the original color is **83.2551, 0.3120, 0.3311**, and **20.9445, 0.3114, 0.3327** is the 20% darker color. If you saturate the color by 10%, you get **42.7718, 0.3057, 0.3487**, and if you desaturate by 10%, it is **47.9606, 0.3176, 0.3167**.

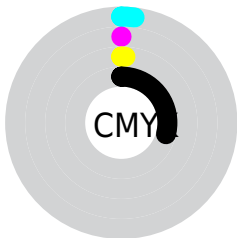
# Distribution



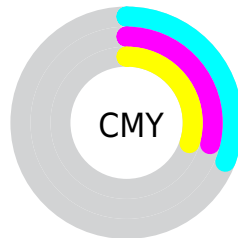
- Red (69%)
- Green (71%)
- Blue (70%)



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



- Cyan (2%)
- Magenta (0%)
- Yellow (1%)
- Black (29%)



- Cyan (31%)
- Magenta (29%)
- Yellow (30%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 45.2040, 0.3117, 0.3317 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 45.2040, 0.3117, 0.3317 by changing the saturation by 10% instead.



■ 45.2040, 0.3117,  
0.3317

■ 45.2040, 0.3117,  
0.3317

367.5991, 0.3122,  
0.3304

■ 31.6181, 0.3116,  
0.3320

■ 83.0265, 0.3119,  
0.3312

■ 21.0700, 0.3114,  
0.3325

108.0318, 0.3120,  
0.3310

■ 13.1752, 0.3112,  
0.3331

137.6125, 0.3120,  
0.3309

■ 7.5493, 0.3109,  
0.3339

172.1529, 0.3121,  
0.3307

■ 3.8079, 0.3104,  
0.3352

212.0373, 0.3121,  
0.3306

■ 1.5667, 0.3095,  
0.3373

257.6503, 0.3122,

■ 0.3350, 0.3018,

0.3305

0.3574

309.3761, 0.3122,  
0.3304

0.0000, 0.0000,  
0.0000

45.2040, 0.3117,  
0.3317

45.2040, 0.3117,  
0.3317

42.7718, 0.3057,  
0.3487

47.9606, 0.3176,  
0.3167

40.6463, 0.2999,  
0.3678

51.0470, 0.3234,  
0.3035

38.8168, 0.2944,  
0.3889

54.4759, 0.3289,  
0.2919

37.2697, 0.2894,  
0.4119

58.2576, 0.3342,  
0.2819

35.9905, 0.2854,  
0.4363

60.0624, 0.3295,  
0.2713

■ 34.9632, 0.2826,  
0.4617

■ 60.7856, 0.3203,  
0.2604

■ 34.1700, 0.2812,  
0.4870

■ 61.1311, 0.3162,  
0.2556

■ 33.5910, 0.2816,  
0.5114

■ 33.2022, 0.2836,  
0.5336

# Harmonies

## Analogous

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



45.2040, 0.3140, 0.3328



45.2040, 0.3117, 0.3317



45.2040, 0.3097, 0.3299

# Triad

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



45.2040, 0.3117, 0.3317



45.2040, 0.3095, 0.3252



45.2040, 0.3169, 0.3301

# Complementary

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



45.2040, 0.3117, 0.3317



44.3839, 0.3137, 0.3263

# 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.



45.2040, 0.3158, 0.3281



45.2040, 0.3117, 0.3317



45.2040, 0.3115, 0.3253

# Square

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



45.2040, 0.3117, 0.3317



45.2040, 0.3085, 0.3262



45.2040, 0.3137, 0.3264



45.2040, 0.3170, 0.3318



# Rectangle

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



45.2040, 0.3117, 0.3317



45.2040, 0.3088, 0.3286



45.2040, 0.3137, 0.3264



45.2040, 0.3167, 0.3295

# Sweetspot

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



45.2059, 0.3117, 0.3317



82.2720, 0.3121, 0.3306



45.4067, 0.3143, 0.3331



17.7875, 0.3121, 0.3305



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.



45.2059, 0.3117, 0.3317



81.7929, 0.3115, 0.3322



45.2675, 0.3105, 0.3297



9.9408, 0.3116, 0.3320



23.0269, 0.2855, 0.5477



0.7357, 0.2688, 0.4876

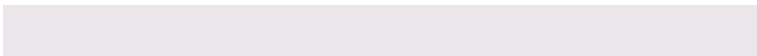


# Inverse Universe

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



44.3839, 0.3137, 0.3263



80.0208, 0.3139, 0.3258



44.3225, 0.3150, 0.3283



9.7435, 0.3138, 0.3261



7.7194, 0.4270, 0.2126



0.2532, 0.3907, 0.1926



# Previews

## White Background



This preview shows how the Yxy color 45.2040, 0.3117, 0.3317 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

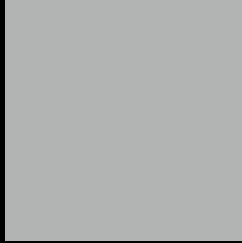
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 45.2040, 0.3117, 0.3317 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

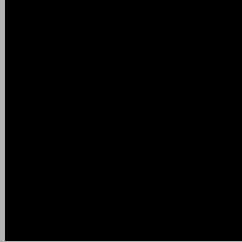
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

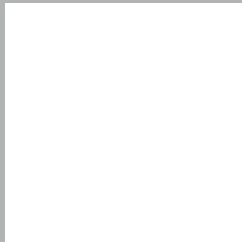
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 45.2040, 0.3117, 0.3317**

## **Background**



This preview shows how black text looks on a background with the Yxy color 45.2040, 0.3117, 0.3317.



This preview shows how white text looks on a background with the Yxy color 45.2040, 0.3117, 0.3317.

# 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

45.2040, 0.3117, 0.3317

### Protanopia

45.0824, 0.3179, 0.3303

### Deuteranopia

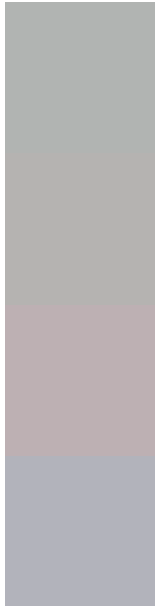
44.8776, 0.3284, 0.3214



## Tritanopia

45.2303, 0.3025, 0.3108

# Trichromacy



## Original Color

45.2040, 0.3117, 0.3317

## Protanomaly

45.2383, 0.3161, 0.3316

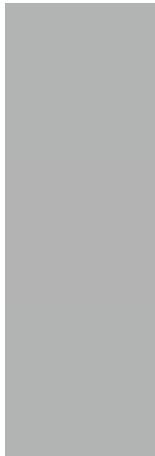
## Deuteranomaly

45.1242, 0.3217, 0.3252

## Tritanomaly

45.2930, 0.3055, 0.3185

# Monochromacy



## Original Color

45.2040, 0.3117, 0.3317

## Achromatopsia

45.0786, 0.3127, 0.3290

## Achromatomaly

44.9598, 0.3119, 0.3290

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 45.2040, 0.3117, 0.3317 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, 178)` looks like.

```
.text, #text, p{  
    color:rgb(177, 180, 178)  
}
```

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, 178) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(177, 180, 178) }
```

## Border

The CSS property to change the border of an element to Yxy 45.2040, 0.3117, 0.3317 is called "border". The border property can be set on classes, ids or directly on the HTML element.

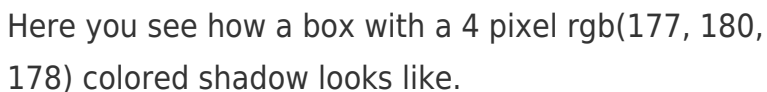
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(177, 180, 178) }
```

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

```
.border{ border-color:rgb(177, 180, 178) }
```

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, 178)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(177, 180, 178); -webkit-box-shadow:4px 4px 4px 4px rgb(177, 180, 178); box-shadow:4px 4px 4px 4px rgb(177, 180, 178) }
```



# Background

The CSS property to change the background color of an element to Yxy 45.2040, 0.3117, 0.3317 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, 178) }
```

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

```
.background{ background-color: rgb(177,  
180, 178) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor