

# Converting Colors

$Y_{xy}(45.3040, 0.3172, 0.3218)$

Have a look what the booklet for  
Yxy(45.3040, 0.3172, 0.3218)  
contains.

<b>Yxy(45.3865, 0.3174, 0.3226)</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(45.3865, 0.3174, 0.3226)**

# Conversions

## Conversions Part 1

Format	Color
Hex	BBB1B6
RGB	187, 177, 182
RGB Percent	73%, 69%, 71%
CMY	0.2667, 0.3058, 0.2864
CMYK	0.00, 0.05, 0.03, 0.27
HSL	330°, 7%, 71%
HSV	330°, 5%, 73%
XYZ	44.6549, 45.3865, 50.6483
YIQ	180.5600, 4.3550, 3.6750

# Conversions

## Conversions Part 2

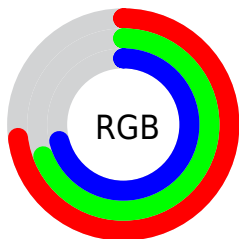
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	187, 177, 182
Decimal	12300726
CIE Lab	73.15, 4.45, -1.26
CIE LCh	73, 4.627, 344.135
Yxy	45.3865, 0.3174, 0.3226
Android (android.graphics.Color)	4290490806 (0xFFBBB1B6)
YUV	180.5600, 0.7099, 5.6479
Hunter-Lab	67.3695, 0.4195, 2.5845

# Details

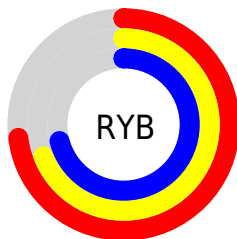
The Yxy color **45.3865, 0.3174, 0.3226** is a light color, and the websafe version is hex **CCCCCC**. A complement of this color would be **48.2633, 0.3083, 0.3355**, and the grayscale version is **45.9526, 0.3127, 0.3290**.

A 20% lighter version of the original color is **83.5056, 0.3163, 0.3240**, and **21.0686, 0.3192, 0.3202** is the 20% darker color. If you saturate the color by 10%, you get **38.1245, 0.3275, 0.3101**, and if you desaturate by 10%, it is **53.6907, 0.3090, 0.3344**.

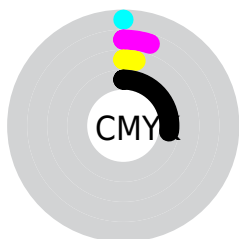
# Distribution



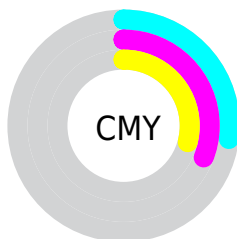
- Red (73%)
- Green (69%)
- Blue (71%)



- Red (73%)
- Yellow (69%)
- Blue (71%)



- Cyan (0%)
- Magenta (5%)
- Yellow (3%)
- Black (27%)



- Cyan (27%)
- Magenta (31%)
- Yellow (29%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 45.3865, 0.3174, 0.3226 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 45.3865, 0.3174, 0.3226 by changing the saturation by 10% instead.



■ 45.3865, 0.3174,  
0.3226

■ 45.3865, 0.3174,  
0.3226

368.3366, 0.3151,  
0.3258

■ 31.7620, 0.3180,  
0.3218

■ 83.3001, 0.3165,  
0.3238

■ 21.1798, 0.3187,  
0.3208

108.3579, 0.3162,  
0.3242

■ 13.2555, 0.3197,  
0.3194

137.9957, 0.3160,  
0.3246

■ 7.6047, 0.3212,  
0.3175

172.5977, 0.3157,  
0.3249

■ 3.8431, 0.3233,  
0.3146

212.5484, 0.3155,  
0.3252

■ 1.5862, 0.3268,  
0.3098

258.2322, 0.3154,

■ 0.3482, 0.3502,

0.3254

0.2774

310.0335, 0.3152,  
0.3256

0.0000, 0.0000,  
0.0000

45.3865, 0.3174,  
0.3226

45.3865, 0.3174,  
0.3226

38.1245, 0.3275,  
0.3101

53.6907, 0.3090,  
0.3344

31.8575, 0.3397,  
0.2970

63.0702, 0.3020,  
0.3454

26.5431, 0.3543,  
0.2838

73.5641, 0.2963,  
0.3555

22.1339, 0.3713,  
0.2710

85.2076, 0.2916,  
0.3648

18.5781, 0.3910,  
0.2595

87.7388, 0.2868,  
0.3574

■ 15.8188, 0.4131,  
0.2503

■ 88.2780, 0.2819,  
0.3469

■ 13.7920, 0.4370,  
0.2447

■ 88.8462, 0.2772,  
0.3367

■ 12.4238, 0.4618,  
0.2438

■ 89.3035, 0.2736,  
0.3289

■ 11.6232, 0.4860,  
0.2482

# Harmonies

## Analogous

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



45.3865, 0.3108, 0.3189



45.3865, 0.3174, 0.3226



45.3865, 0.3228, 0.3280

# Triad

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



45.3865, 0.3174, 0.3226



45.3865, 0.3206, 0.3403



45.3865, 0.3002, 0.3242

# Complementary

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



45.3865, 0.3174, 0.3226



48.2633, 0.3083, 0.3355

# 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.



45.3865, 0.3028, 0.3300



45.3865, 0.3174, 0.3226



45.3865, 0.3145, 0.3394

# Square

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



45.3865, 0.3174, 0.3226



45.3865, 0.3246, 0.3382



45.3865, 0.3080, 0.3356



45.3865, 0.3009, 0.3198



# Rectangle

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



45.3865, 0.3174, 0.3226



45.3865, 0.3249, 0.3318



45.3865, 0.3080, 0.3356



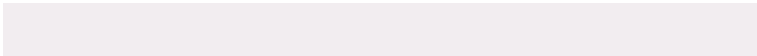
45.3865, 0.3007, 0.3260

# Sweetspot

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



45.3885, 0.3174, 0.3226



86.0050, 0.3144, 0.3266



44.9812, 0.3090, 0.3160



18.9729, 0.3144, 0.3267



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.



45.3885, 0.3174, 0.3226



80.2466, 0.3181, 0.3217



45.1869, 0.3215, 0.3290



10.0918, 0.3185, 0.3211



7.8385, 0.4945, 0.2498



0.3203, 0.4422, 0.2210



# Inverse Universe

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



45.3885, 0.3174, 0.3226



80.2466, 0.3181, 0.3217



48.4722, 0.3045, 0.3290



10.0918, 0.3185, 0.3211



7.8385, 0.4945, 0.2498

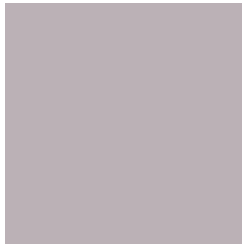


0.3203, 0.4422, 0.2210



# Previews

## White Background



This preview shows how the Yxy color 45.3865, 0.3174, 0.3226 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

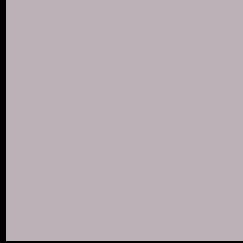
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 45.3865, 0.3174, 0.3226 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

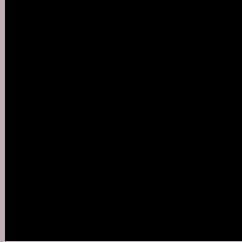
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

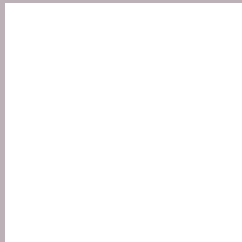
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 45.3865, 0.3174, 0.3226**

## Background



This preview shows how black text looks on a background with the Yxy color 45.3865, 0.3174, 0.3226.



This preview shows how white text looks on a background with the Yxy color 45.3865, 0.3174, 0.3226.

# 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

45.3865, 0.3174, 0.3226

### Protanopia

45.6042, 0.3121, 0.3238

### Deuteranopia

45.2931, 0.3239, 0.3176



## Tritanopia

45.4597, 0.3118, 0.3111

# Trichromacy



## Original Color

45.3865, 0.3174, 0.3226

## Protanomaly

45.4500, 0.3139, 0.3225

## Deuteranomaly

45.2853, 0.3212, 0.3188

## Tritanomaly

45.3299, 0.3142, 0.3149

# Monochromacy



## Original Color

45.3865, 0.3174, 0.3226

## Achromatopsia

46.2077, 0.3127, 0.3290

## Achromatomaly

46.0460, 0.3145, 0.3277

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 45.3865, 0.3174, 0.3226 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(187, 177, 182)` looks like.

```
.text, #text, p{  
    color:rgb(187, 177, 182)  
}
```

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(187, 177, 182) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(187, 177, 182) }
```

## Border

The CSS property to change the border of an element to Yxy 45.3865, 0.3174, 0.3226 is called "border". The border property can be set on classes, ids or directly on the HTML element.

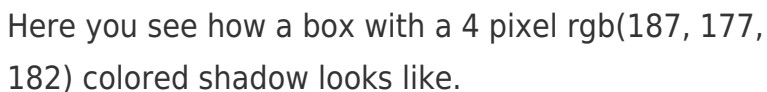
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(187, 177, 182) }
```

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

```
.border{ border-color:rgb(187, 177, 182) }
```

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



Here you see how a box with a 4 pixel `rgb(187, 177, 182)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(187, 177, 182); -webkit-box-shadow:4px 4px 4px 4px rgb(187, 177, 182); box-shadow:4px 4px 4px 4px rgb(187, 177, 182) }
```



# Background

The CSS property to change the background color of an element to Yxy 45.3865, 0.3174, 0.3226 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(187, 177, 182) }
```

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

```
.background{ background-color: rgb(187,  
177, 182) }
```

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