

# Converting Colors

$Yxy(45.3468, 0.3103, 0.3801)$

Have a look what the booklet for  
Yxy(45.3468, 0.3103, 0.3801)  
contains.

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# Color

**Yxy(45.4674, 0.3103, 0.3804)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	99BD99
RGB	153, 189, 153
RGB Percent	60%, 74%, 60%
CMY	0.3999, 0.2588, 0.3999
CMYK	0.19, 0.00, 0.19, 0.26
HSL	120°, 21%, 67%
HSV	120°, 19%, 74%
XYZ	37.0887, 45.4674, 36.9692
YIQ	174.1320, -9.9000, -18.8280

# Conversions

## Conversions Part 2

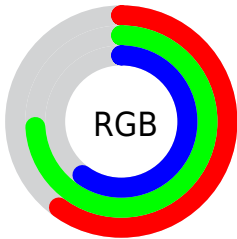
Format	Color
R <sub>YB</sub>	153, 189, 189
Decimal	10075545
CIE Lab	73.20, -19.10, 14.26
CIE LCh	73, 23.841, 143.251
Yxy	45.4674, 0.3103, 0.3804
Android (android.graphics.Color)	4288265625 (0xFF99BD99)
YUV	174.1320, -10.4181, -18.5328
Hunter-Lab	67.4295, -19.8202, 14.6941

# Details

The Yxy color **45.4674, 0.3103, 0.3804** is a light color, and the websafe version is hex **99CC99**. A complement of this color would be **37.2816, 0.3149, 0.2825**, and the grayscale version is **42.4608, 0.3127, 0.3290**.

A 20% lighter version of the original color is **83.2197, 0.3114, 0.3706**, and **21.3343, 0.3084, 0.3971** is the 20% darker color. If you saturate the color by 10%, you get **43.1974, 0.3088, 0.4122**, and if you desaturate by 10%, it is **48.1315, 0.3116, 0.3518**.

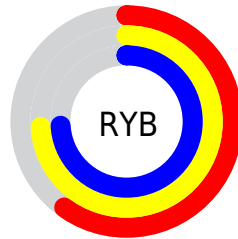
# Distribution



Red (60%)

Green (74%)

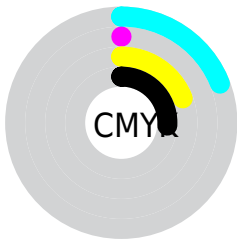
Blue (60%)



Red (60%)

Yellow (74%)

Blue (74%)

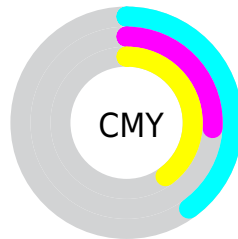


Cyan (19%)

Magenta (0%)

Yellow (19%)

Black (26%)



Cyan (40%)

Magenta (26%)

Yellow (40%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 45.4674, 0.3103, 0.3804 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 45.4674, 0.3103, 0.3804 by changing the saturation by 10% instead.





 45.4674, 0.3103,  
0.3804


 45.4674, 0.3103,  
0.3804


368.6633, 0.3119,  
0.3538

 31.8257, 0.3097,  
0.3873

 83.4214, 0.3110,  
0.3705

 21.2284, 0.3089,  
0.3964


 108.5024, 0.3112,  
0.3669

 13.2911, 0.3077,  
0.4089

138.1654, 0.3114,  
0.3638

 7.6293, 0.3056,  
0.4268

172.7948, 0.3116,  
0.3612

 3.8587, 0.3017,  
0.4550

212.7748, 0.3117,  
0.3590

 1.5948, 0.2971,  
0.5122

258.4900, 0.3118,

 0.3541, 0.0000,

0.3570

1.0000

310.3247, 0.3119,  
0.3553

0.0000, 0.0000,  
0.0000

45.4674, 0.3103,  
0.3804

45.4674, 0.3103,  
0.3804

43.1974, 0.3088,  
0.4122

48.1315, 0.3116,  
0.3518

41.2972, 0.3072,  
0.4466

51.2010, 0.3128,  
0.3267

39.7492, 0.3055,  
0.4823

54.6939, 0.3138,  
0.3049

38.5316, 0.3039,  
0.5170

58.6254, 0.3147,  
0.2862

37.6205, 0.3024,  
0.5483

63.0100, 0.3155,  
0.2701

■ 36.9886, 0.3012,  
0.5733

■ 64.8742, 0.3157,  
0.2644

■ 36.6038, 0.3005,  
0.5902

■ 36.4100, 0.3000,  
0.5992

■ 36.3943, 0.3000,  
0.6000

# Harmonies

## Analogous

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



45.4674, 0.3435, 0.3892



45.4674, 0.3103, 0.3804



45.4674, 0.2789, 0.3551

# Triad

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



45.4674, 0.3103, 0.3804



45.4674, 0.2581, 0.2776



45.4674, 0.3712, 0.3308

# Complementary

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



45.4674, 0.3103, 0.3804



37.2816, 0.3149, 0.2825

# 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.



45.4674, 0.3460, 0.3043



45.4674, 0.3103, 0.3804



45.4674, 0.2803, 0.2743

# Square

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



45.4674, 0.3103, 0.3804



45.4674, 0.2499, 0.2945



45.4674, 0.3123, 0.2841



45.4674, 0.3798, 0.3582



# Rectangle

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



45.4674, 0.3103, 0.3804



45.4674, 0.2631, 0.3336



45.4674, 0.3123, 0.2841



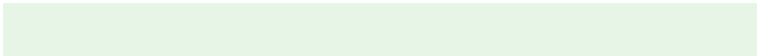
45.4674, 0.3644, 0.3215

# Sweetspot

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



45.4693, 0.3103, 0.3804



87.7450, 0.3120, 0.3441



49.5133, 0.3410, 0.3757



18.7948, 0.3119, 0.3458



95.5105, 0.3127, 0.3290



19.5994, 0.3127, 0.3290

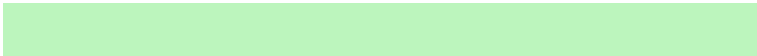


# Same Dimension

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



45.4693, 0.3103, 0.3804



79.5910, 0.3097, 0.3938



46.1092, 0.2972, 0.3542



10.6497, 0.3116, 0.3527



24.4879, 0.3000, 0.6000



0.9592, 0.3000, 0.5999



# Inverse Universe

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



37.2816, 0.3149, 0.2825



62.1351, 0.3154, 0.2717



36.5485, 0.3317, 0.3051



9.6963, 0.3138, 0.3064



9.7504, 0.3210, 0.1542

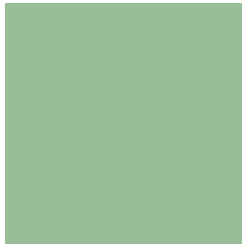


0.3819, 0.3209, 0.1542



# Previews

## White Background



This preview shows how the Yxy color 45.4674, 0.3103, 0.3804 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 45.4674, 0.3103, 0.3804 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

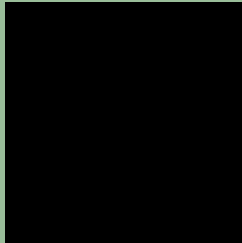
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 45.4674, 0.3103, 0.3804**

## Background



This preview shows how black text looks on a background with the Yxy color 45.4674, 0.3103, 0.3804.



This preview shows how white text looks on a background with the Yxy color 45.4674, 0.3103, 0.3804.

# 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**

45.4674, 0.3103, 0.3804

**Protanopia**

45.1971, 0.3475, 0.3700

**Deuteranopia**

45.2666, 0.3571, 0.3505



## Tritanopia

45.4753, 0.2845, 0.3102

# Trichromacy



## Original Color

45.4674, 0.3103, 0.3804

## Protanomaly

45.2991, 0.3331, 0.3740

## Deuteranomaly

45.0459, 0.3388, 0.3609

## Tritanomaly

45.3032, 0.2937, 0.3344

# Monochromacy



## Original Color

45.4674, 0.3103, 0.3804

## Achromatopsia

42.3268, 0.3127, 0.3290

## Achromatomaly

43.1004, 0.3119, 0.3471

# CSS Examples

## Text

The CSS property to change the color of the text to  $Yxy$  45.4674, 0.3103, 0.3804 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(153, 189, 153)` looks like.

```
.text, #text, p{  
    color:rgb(153, 189, 153)  
}
```

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(153, 189, 153) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(153, 189, 153) }
```

## Border

The CSS property to change the border of an element to Yxy 45.4674, 0.3103, 0.3804 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(153, 189, 153) }
```

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

```
.border{ border-color:rgb(153, 189, 153) }
```

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

Here you see how a box with a 4 pixel `rgb(153, 189, 153)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(153, 189, 153); -webkit-box-  
shadow:4px 4px 4px 4px rgb(153, 189, 153);  
box-shadow:4px 4px 4px 4px rgb(153, 189,  
153) }
```



# Background

The CSS property to change the background color of an element to Yxy 45.4674, 0.3103, 0.3804 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(153, 189, 153) }
```

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

```
.background{ background-color: rgb(153,  
189, 153) }
```

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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