

# Converting Colors

$Y_{xy}(50.7675, 0.3285, 0.4170)$

Have a look what the booklet for  
Yxy(50.7675, 0.3285, 0.4170)  
contains.

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# Color

**Yxy(50.7675, 0.3285, 0.4170)**

# Conversions

## Conversions Part 1

Format	Color
Hex	A2C888
RGB	162, 200, 136
RGB Percent	64%, 78%, 53%
CMY	0.3648, 0.2156, 0.4667
CMYK	0.19, 0.00, 0.32, 0.22
HSL	96°, 37%, 66%
HSV	96°, 32%, 78%
XYZ	39.9931, 50.7675, 30.9840
YIQ	181.3420, -2.1040, -27.9600

# Conversions

## Conversions Part 2

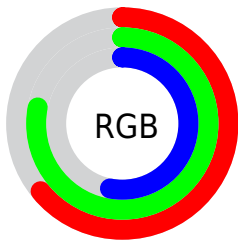
<b>Format</b>	<b>Color</b>
<b>RYB</b>	136, 200, 174
Decimal	10668168
CIELab	76.54, -24.20, 28.00
CIELCh	77, 37.006, 130.835
Yxy	50.7675, 0.3285, 0.4170
Android (android.graphics.Color)	4288858248 (0xFFA2C888)
YUV	181.3420, -22.3536, -16.9629
Hunter-Lab	71.2513, -24.4984, 24.0934

# Details

The Yxy color **50.7675, 0.3285, 0.4170** is a light color, and the websafe version is hex **99CC99**. A complement of this color would be **30.7842, 0.2909, 0.2440**, and the grayscale version is **46.5251, 0.3127, 0.3290**.

A 20% lighter version of the original color is **90.1431, 0.3268, 0.3983**, and **24.4649, 0.3311, 0.4444** is the 20% darker color. If you saturate the color by 10%, you get **49.0666, 0.3323, 0.4479**, and if you desaturate by 10%, it is **52.6967, 0.3239, 0.3872**.

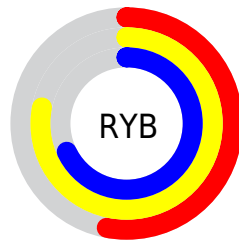
# Distribution



Red (64%)

Green (78%)

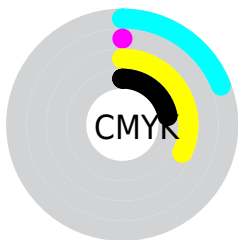
Blue (53%)



Red (53%)

Yellow (78%)

Blue (68%)

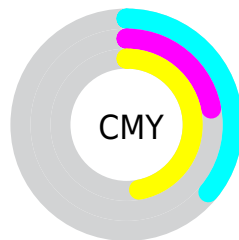


Cyan (19%)

Magenta (0%)

Yellow (32%)

Black (22%)



Cyan (36%)

Magenta (22%)


Yellow (47%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 50.7675, 0.3285, 0.4170 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 50.7675, 0.3285, 0.4170 by changing the saturation by 10% instead.




 50.7675, 0.3285,  
0.4170

 50.7675, 0.3285,  
0.4170


389.6598, 0.3219,  
0.3719


 36.0236, 0.3297,  
0.4285


 91.3110, 0.3264,  
0.4004

 24.4524, 0.3309,  
0.4434


 117.8794, 0.3255,  
0.3942

 15.6696, 0.3321,  
0.4633


 149.1581, 0.3248,  
0.3890

 9.2906, 0.3326,  
0.4911

185.5315, 0.3241,  
0.3846

 4.9312, 0.3308,  
0.5322

227.3840, 0.3234,  
0.3808

 2.2070, 0.3463,  
0.6432

275.0999, 0.3229,

 0.7238, 0.1184,

0.3775

0.8816

329.0637, 0.3223,  
0.3745

0.0000, 0.0000,  
0.0000

50.7675, 0.3285,  
0.4170

50.7675, 0.3285,  
0.4170

49.0666, 0.3323,  
0.4479

52.6967, 0.3239,  
0.3872

47.5781, 0.3350,  
0.4789

54.8560, 0.3189,  
0.3594

46.2945, 0.3361,  
0.5084


57.2559, 0.3138,  
0.3338


45.2048, 0.3355,  
0.5347


59.9039, 0.3086,  
0.3107

44.2970, 0.3330,  
0.5563

62.8075, 0.3036,  
0.2900

 43.5572, 0.3286,  
0.5719

 65.9082, 0.2994,  
0.2725

 43.0692, 0.3244,  
0.5806

 67.9805, 0.3080,  
0.2740

 69.7944, 0.3152,  
0.2752

# Harmonies

## Analogous

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



50.7675, 0.3752, 0.4162



50.7675, 0.3285, 0.4170



50.7675, 0.2797, 0.3875

# Triad

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



50.7675, 0.3285, 0.4170



50.7675, 0.2256, 0.2605



50.7675, 0.3874, 0.3138

# Complementary

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



50.7675, 0.3285, 0.4170



30.7842, 0.2909, 0.2440

# 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.



50.7675, 0.3416, 0.2793



50.7675, 0.3285, 0.4170



50.7675, 0.2492, 0.2490

# Square

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



50.7675, 0.3285, 0.4170



50.7675, 0.2229, 0.2918



50.7675, 0.2906, 0.2562



50.7675, 0.4117, 0.3534



# Rectangle

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



50.7675, 0.3285, 0.4170



50.7675, 0.2526, 0.3559



50.7675, 0.2906, 0.2562



50.7675, 0.3738, 0.3014

# Sweetspot

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



50.7697, 0.3285, 0.4170



95.7028, 0.3180, 0.3545



44.0771, 0.3703, 0.3771



20.3625, 0.3187, 0.3582



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

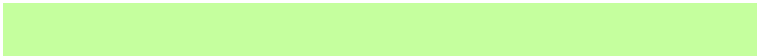


# Same Dimension

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



50.7697, 0.3285, 0.4170



85.9167, 0.3311, 0.4372



48.4820, 0.3048, 0.4146



12.0943, 0.3176, 0.3524



27.4304, 0.3254, 0.5798



1.3409, 0.3423, 0.5664



# Inverse Universe

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



30.7842, 0.2909, 0.2440



46.2608, 0.2852, 0.2254



33.8157, 0.3216, 0.2562



10.5938, 0.3074, 0.3058



5.1933, 0.2228, 0.1001



0.2874, 0.2431, 0.1113



# Previews

## White Background



This preview shows how the Yxy color 50.7675, 0.3285, 0.4170 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

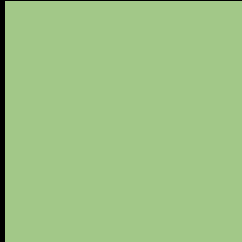
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 50.7675, 0.3285, 0.4170 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

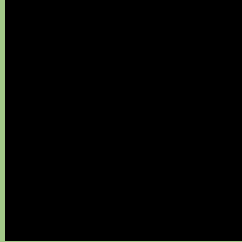
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 50.7675, 0.3285, 0.4170**

## **Background**



This preview shows how black text looks on a background with the Yxy color 50.7675, 0.3285, 0.4170.



This preview shows how white text looks on a background with the Yxy color 50.7675, 0.3285, 0.4170.

# 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

50.7675, 0.3285, 0.4170

### Protanopia

50.3016, 0.3715, 0.4001

### Deuteranopia

50.4708, 0.3843, 0.3775



## Tritanopia

50.6021, 0.2879, 0.3099

# Trichromacy



## Original Color

50.7675, 0.3285, 0.4170

## Protanomaly

50.0841, 0.3550, 0.4057

## Deuteranomaly

50.1099, 0.3624, 0.3908

## Tritanomaly

50.3548, 0.3024, 0.3462

# Monochromacy



## Original Color

50.7675, 0.3285, 0.4170

## Achromatopsia

46.2077, 0.3127, 0.3290

## Achromatomaly

47.6817, 0.3188, 0.3599

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 50.7675, 0.3285, 0.4170 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(162, 200, 136)` looks like.

```
.text, #text, p{  
    color:rgb(162, 200, 136)  
}
```

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(162, 200, 136) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(162, 200, 136) }
```

## Border

The CSS property to change the border of an element to Yxy 50.7675, 0.3285, 0.4170 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(162, 200, 136) }
```

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

```
.border{ border-color:rgb(162, 200, 136) }
```

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

Here you see how a box with a 4 pixel `rgb(162, 200, 136)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(162, 200, 136); -webkit-box-shadow:4px 4px 4px 4px rgb(162, 200, 136); box-shadow:4px 4px 4px 4px rgb(162, 200, 136) }
```



# Background

The CSS property to change the background color of an element to Yxy 50.7675, 0.3285, 0.4170 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(162, 200, 136) }
```

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

```
.background{ background-color: rgb(162,  
200, 136) }
```

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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