

# Converting Colors

$Yxy(47.0879, 0.3077, 0.4355)$

Have a look what the booklet for  
Yxy(47.0879, 0.3077, 0.4355)  
contains.

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# Color

**Yxy(46.9946, 0.3077, 0.4353)**

# Conversions

## Conversions Part 1

Format	Color
Hex	80C780
RGB	128, 199, 128
RGB Percent	50%, 78%, 50%
CMY	0.4982, 0.2196, 0.4980
CMYK	0.36, 0.00, 0.36, 0.22
HSL	120°, 39%, 64%
HSV	120°, 36%, 78%
XYZ	33.2190, 46.9946, 27.7455
YIQ	169.6770, -19.5250, -37.1330

# Conversions

## Conversions Part 2

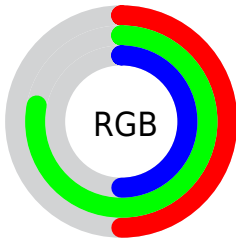
<b>Format</b>	<b>Color</b>
<b>RYB</b>	128, 199, 199
Decimal	8439680
CIELab	74.19, -36.54, 28.70
CIElCh	74, 46.459, 141.853
Yxy	46.9946, 0.3077, 0.4353
Android (android.graphics.Color)	4286629760 (0xFF80C780)
YUV	169.6770, -20.5468, -36.5507
Hunter-Lab	68.5526, -33.4701, 23.9902

# Details

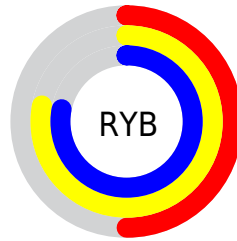
The Yxy color **46.9946, 0.3077, 0.4353** is a light color, and the websafe version is hex **66CC99**. A complement of this color would be **31.6961, 0.3169, 0.2416**, and the grayscale version is **40.1389, 0.3127, 0.3290**.

A 20% lighter version of the original color is **84.9235, 0.3099, 0.4136**, and **22.2967, 0.3035, 0.4699** is the 20% darker color. If you saturate the color by 10%, you get **45.1287, 0.3060, 0.4708**, and if you desaturate by 10%, it is **49.2698, 0.3093, 0.4015**.

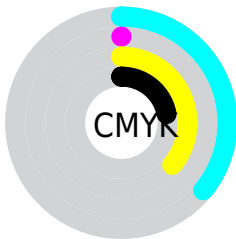
# Distribution



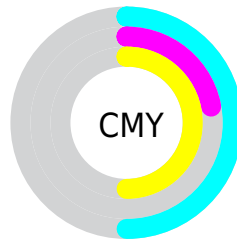
- Red (50%)
- Green (78%)
- Blue (50%)



- Red (50%)
- Yellow (78%)
- Blue (78%)



- Cyan (36%)
- Magenta (0%)
- Yellow (36%)
- Black (22%)




- Cyan (50%)
- Magenta (22%)
- Yellow (50%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 46.9946, 0.3077, 0.4353 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 46.9946, 0.3077, 0.4353 by changing the saturation by 10% instead.





 46.9946, 0.3077,  
0.4353

 46.9946, 0.3077,  
0.4353


374.7930, 0.3120,  
0.3793

 33.0314, 0.3060,  
0.4501


 85.7056, 0.3097,  
0.4143

 22.1505, 0.3034,  
0.4696


 111.2221, 0.3103,  
0.4066

 13.9675, 0.2991,  
0.4963


 141.3585, 0.3108,  
0.4002

 8.0981, 0.2917,  
0.5346

176.4993, 0.3111,  
0.3947

 4.1578, 0.2770,  
0.5933

217.0287, 0.3114,  
0.3900

 1.7622, 0.2543,  
0.7457

263.3312, 0.3116,

 0.4635, 0.0000,

0.3860

1.0000

315.7911, 0.3118,  
0.3824

0.0000, 0.0000,  
0.0000

46.9946, 0.3077,  
0.4353

46.9946, 0.3077,  
0.4353

45.1287, 0.3060,  
0.4708

49.2698, 0.3093,  
0.4015

43.6422, 0.3044,  
0.5063

51.9701, 0.3107,  
0.3706

42.5110, 0.3028,  
0.5390


55.1178, 0.3120,  
0.3431

41.7053, 0.3015,  
0.5664


58.7320, 0.3132,  
0.3191

41.1909, 0.3006,  
0.5860

62.8306, 0.3142,  
0.2983

 40.9251, 0.3001,  
0.5968

 67.4304, 0.3150,  
0.2804

 40.8510, 0.3000,  
0.6000

 69.3308, 0.3153,  
0.2742

# Harmonies

## Analogous

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



46.9946, 0.3701, 0.4464



46.9946, 0.3077, 0.4353



46.9946, 0.2498, 0.3835

# Triad

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



46.9946, 0.3077, 0.4353



46.9946, 0.2114, 0.2341



46.9946, 0.4248, 0.3260

# Complementary

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



46.9946, 0.3077, 0.4353



31.6961, 0.3169, 0.2416

# 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.



46.9946, 0.3731, 0.2807



46.9946, 0.3077, 0.4353



46.9946, 0.2489, 0.2298

# Square

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



46.9946, 0.3077, 0.4353



46.9946, 0.1984, 0.2627



46.9946, 0.3070, 0.2467



46.9946, 0.4417, 0.3753

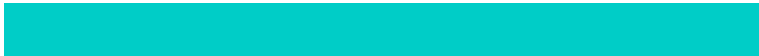


# Rectangle

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



46.9946, 0.3077, 0.4353



46.9946, 0.2214, 0.3383



46.9946, 0.3070, 0.2467



46.9946, 0.4107, 0.3101

# Sweetspot

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



46.9966, 0.3077, 0.4353



93.3869, 0.3114, 0.3577



54.5518, 0.3659, 0.4169



19.8291, 0.3112, 0.3616



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

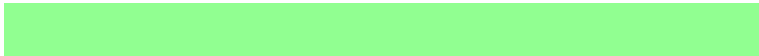


# Same Dimension

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



46.9966, 0.3077, 0.4353



79.6287, 0.3064, 0.4634



48.0997, 0.2848, 0.3807



11.8880, 0.3116, 0.3529



26.2657, 0.3000, 0.6000



1.2437, 0.2999, 0.5998



# Inverse Universe

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



31.6961, 0.3169, 0.2416



48.8339, 0.3177, 0.2234



30.2361, 0.3548, 0.2829



10.8165, 0.3138, 0.3063



10.4558, 0.3211, 0.1542



0.4951, 0.3210, 0.1542



# Previews

## White Background



This preview shows how the Yxy color 46.9946, 0.3077, 0.4353 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 46.9946, 0.3077, 0.4353 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

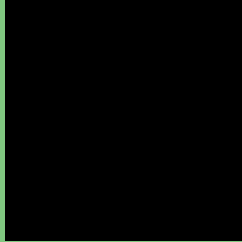
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 46.9946, 0.3077, 0.4353**

## Background



This preview shows how black text looks on a background with the Yxy color 46.9946, 0.3077, 0.4353.



This preview shows how white text looks on a background with the Yxy color 46.9946, 0.3077, 0.4353.

# 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

46.9946, 0.3077, 0.4353

### Protanopia

46.2985, 0.3770, 0.4059

### Deuteranopia

46.4404, 0.3861, 0.3778



## Tritanopia

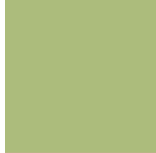
47.0743, 0.2672, 0.3086

# Trichromacy



## Original Color

46.9946, 0.3077, 0.4353



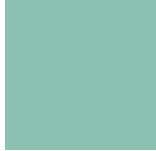
## Protanomaly

46.1923, 0.3488, 0.4170



## Deuteranomaly

45.6002, 0.3541, 0.3975



## Tritanomaly

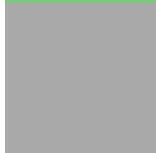
46.7175, 0.2822, 0.3517

# Monochromacy



## Original Color

46.9946, 0.3077, 0.4353



## Achromatopsia

40.1978, 0.3127, 0.3290



## Achromatomaly

42.3829, 0.3110, 0.3665

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 46.9946, 0.3077, 0.4353 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(128, 199, 128)` looks like.

```
.text, #text, p{  
    color:rgb(128, 199, 128)  
}
```

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(128, 199, 128) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(128, 199, 128) }
```

## Border

The CSS property to change the border of an element to Yxy 46.9946, 0.3077, 0.4353 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(128, 199, 128) }
```

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

```
.border{ border-color:rgb(128, 199, 128) }
```

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

Here you see how a box with a 4 pixel `rgb(128, 199, 128)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(128, 199, 128); -webkit-box-  
shadow:4px 4px 4px 4px rgb(128, 199, 128);  
box-shadow:4px 4px 4px 4px rgb(128, 199,  
128) }
```



# Background

The CSS property to change the background color of an element to Yxy 46.9946, 0.3077, 0.4353 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(128, 199, 128) }
```

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

```
.background{ background-color: rgb(128,  
199, 128) }
```

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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