

# Converting Colors

$Y_{xy}(48.3279, 0.2781, 0.3189)$

Have a look what the booklet for  
Yxy(48.3279, 0.2781, 0.3189)  
contains.

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# Color

**Yxy(48.1574, 0.2780, 0.3182)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	99BFC7
RGB	153, 191, 199
RGB Percent	60%, 75%, 78%
CMY	0.4001, 0.2509, 0.2196
CMYK	0.23, 0.04, 0.00, 0.22
HSL	190°, 29%, 69%
HSV	190°, 23%, 78%
XYZ	42.0734, 48.1574, 61.1124
YIQ	180.5500, -25.2160, -5.5680

# Conversions

## Conversions Part 2

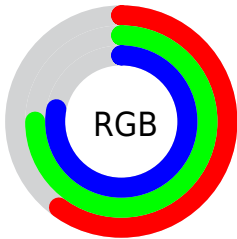
<b>Format</b>	<b>Color</b>
<b>RYB</b>	153, 174, 199
Decimal	10076103
CIELab	74.92, -10.85, -8.21
CIELCh	75, 13.610, 217.102
Yxy	48.1574, 0.2780, 0.3182
Android (android.graphics.Color)	4288266183 (0xFF99BFC7)
YUV	180.5500, 9.0959, -24.1613
Hunter-Lab	69.3955, -13.2205, -3.6362

# Details

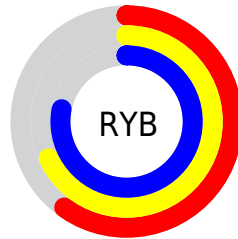
The Yxy color  $48.1574, 0.2780, 0.3182$  is a light color, and the websafe version is hex  $99CCCC$ . A complement of this color would be  $39.9225, 0.3576, 0.3395$ , and the grayscale version is  $45.9121, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $87.1514, 0.2845, 0.3206$ , and  $22.9880, 0.2690, 0.3160$  is the 20% darker color. If you saturate the color by 10%, you get  $44.8918, 0.2640, 0.3129$ , and if you desaturate by 10%, it is  $51.7854, 0.2927, 0.3231$ .

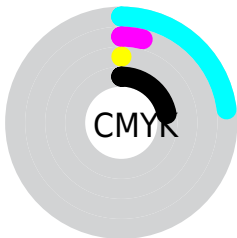
# Distribution



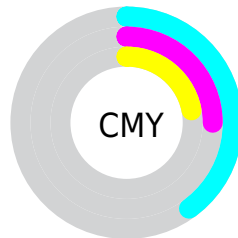
- Red (60%)
- Green (75%)
- Blue (78%)



- Red (60%)
- Yellow (68%)
- Blue (78%)



- Cyan (23%)
- Magenta (4%)
- Yellow (0%)
- Black (22%)




- Cyan (40%)
- Magenta (25%)
- Yellow (22%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 48.1574, 0.2780, 0.3182 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 48.1574, 0.2780, 0.3182 by changing the saturation by 10% instead.



 48.1574, 0.2780,  
0.3182


 48.1574, 0.2780,  
0.3182

379.4157, 0.2951,  
0.3238

 33.9516, 0.2738,  
0.3168


 87.4387, 0.2841,  
0.3203

 22.8564, 0.2685,  
0.3149


 113.2830, 0.2865,  
0.3210

 14.4875, 0.2615,  
0.3123


143.7755, 0.2884,  
0.3217

 8.4605, 0.2519,  
0.3086

179.3006, 0.2901,  
0.3222

 4.3910, 0.2380,  
0.3030

220.2428, 0.2916,  
0.3227

 1.8946, 0.2160,  
0.2933

266.9865, 0.2929,

 0.5451, 0.1278,

0.3231

0.2753

319.9160, 0.2941,  
0.3235

0.0000, 0.0000,  
0.0000

48.1574, 0.2780,  
0.3182

48.1574, 0.2780,  
0.3182

44.8918, 0.2640,  
0.3129

51.7854, 0.2927,  
0.3231

41.9666, 0.2511,  
0.3072

55.7851, 0.3079,  
0.3277

39.3659, 0.2396,  
0.3013

60.1726, 0.3233,  
0.3318

37.0706, 0.2297,  
0.2952

64.9614, 0.3386,  
0.3355

35.0590, 0.2216,  
0.2890

70.1642, 0.3537,  
0.3387

■ 33.3061, 0.2154,  
0.2827

■ 72.3463, 0.3549,  
0.3422

■ 31.7822, 0.2111,  
0.2765

■ 74.0906, 0.3541,  
0.3457

■ 30.8302, 0.2090,  
0.2723

■ 75.8721, 0.3534,  
0.3492

■ 77.6911, 0.3527,  
0.3526

# Harmonies

## Analogous

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



48.1574, 0.2871, 0.3356



48.1574, 0.2780, 0.3182



48.1574, 0.2779, 0.3045

# Triad

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



48.1574, 0.2780, 0.3182



48.1574, 0.3217, 0.3079



48.1574, 0.3388, 0.3611

# Complementary

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



48.1574, 0.2780, 0.3182



39.9225, 0.3576, 0.3395

# 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.



48.1574, 0.3487, 0.3524



48.1574, 0.2780, 0.3182



48.1574, 0.3387, 0.3219

# Square

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



48.1574, 0.2780, 0.3182



48.1574, 0.3026, 0.2992



48.1574, 0.3487, 0.3380



48.1574, 0.3220, 0.3610



# Rectangle

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



48.1574, 0.2780, 0.3182



48.1574, 0.2828, 0.2992



48.1574, 0.3487, 0.3380



48.1574, 0.3431, 0.3591

# Sweetspot

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



48.1594, 0.2780, 0.3182



94.8078, 0.3018, 0.3259



50.1798, 0.3044, 0.3822



20.2004, 0.3009, 0.3256



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

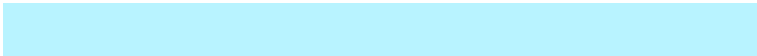


# Same Dimension

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



48.1594, 0.2780, 0.3182



81.2210, 0.2705, 0.3154



39.0177, 0.2755, 0.2867



11.7419, 0.2984, 0.3249



19.9375, 0.2092, 0.2731



1.0289, 0.2128, 0.2860



# Inverse Universe

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



38.6801, 0.3226, 0.2814



61.8217, 0.3253, 0.2703



48.5827, 0.3513, 0.3680



10.7838, 0.3164, 0.3101



9.5527, 0.3699, 0.1811

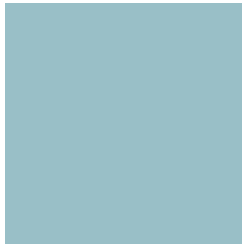


0.4609, 0.3580, 0.1746



# Previews

## White Background



This preview shows how the Yxy color 48.1574, 0.2780, 0.3182 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

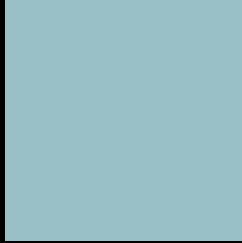
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 48.1574, 0.2780, 0.3182 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

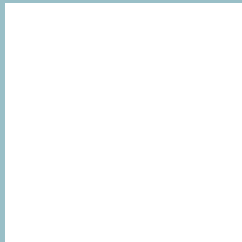
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 48.1574, 0.2780, 0.3182**

## Background



This preview shows how black text looks on a background with the Yxy color 48.1574, 0.2780, 0.3182.



This preview shows how white text looks on a background with the Yxy color 48.1574, 0.2780, 0.3182.

# 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

48.1574, 0.2780, 0.3182

### Protanopia

47.9524, 0.3050, 0.3150

### Deuteranopia

47.9738, 0.3073, 0.3007



## Tritanopia

48.1047, 0.2747, 0.3091

# Trichromacy



## Original Color

48.1574, 0.2780, 0.3182

## Protanomaly

47.9876, 0.2947, 0.3160

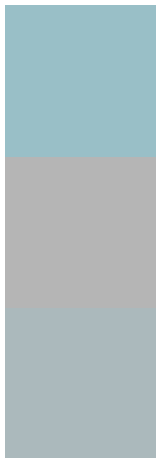
## Deuteranomaly

47.6677, 0.2957, 0.3060

## Tritanomaly

48.0087, 0.2760, 0.3116

# Monochromacy



## Original Color

48.1574, 0.2780, 0.3182

## Achromatopsia

46.2077, 0.3127, 0.3290

## Achromatomaly

46.9867, 0.2989, 0.3250

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 48.1574, 0.2780, 0.3182 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, 191, 199)` looks like.

```
.text, #text, p{  
    color:rgb(153, 191, 199)  
}
```

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, 191, 199) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(153, 191, 199) }
```

## Border

The CSS property to change the border of an element to Yxy 48.1574, 0.2780, 0.3182 is called "border". The border property can be set on classes, ids or directly on the HTML element.

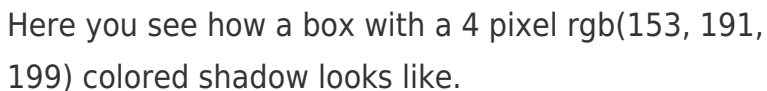
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(153, 191, 199) }
```

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

```
.border{ border-color:rgb(153, 191, 199) }
```

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



Here you see how a box with a 4 pixel `rgb(153, 191, 199)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(153, 191, 199); -webkit-box-shadow:4px 4px 4px 4px rgb(153, 191, 199); box-shadow:4px 4px 4px 4px rgb(153, 191, 199) }
```



# Background

The CSS property to change the background color of an element to Yxy 48.1574, 0.2780, 0.3182 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(153, 191, 199) }
```

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

```
.background{ background-color: rgb(153,  
191, 199) }
```

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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