

# Converting Colors

$Y_{xy}(50.3108, 0.2607, 0.3224)$

Have a look what the booklet for  
Yxy(50.3108, 0.2607, 0.3224)  
contains.

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# Color

**Yxy(50.3835, 0.2603, 0.3220)**

# Conversions

## Conversions Part 1

Format	Color
Hex	81C8CD
RGB	129, 200, 205
RGB Percent	51%, 78%, 80%
CMY	0.4941, 0.2157, 0.1959
CMYK	0.37, 0.02, 0.00, 0.20
HSL	184°, 43%, 65%
HSV	184°, 37%, 80%
XYZ	40.7293, 50.3835, 65.3577
YIQ	179.3410, -43.9210, -13.4970

# Conversions

## Conversions Part 2

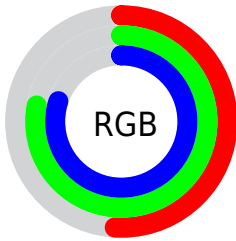
<b>Format</b>	<b>Color</b>
<b>RYB</b>	129, 166, 205
Decimal	8505549
CIELab	76.30, -20.90, -9.57
CIELCh	76, 22.989, 204.588
Yxy	50.3835, 0.2603, 0.3220
Android (android.graphics.Color)	4286695629 (0xFF81C8CD)
YUV	179.3410, 12.6499, -44.1491
Hunter-Lab	70.9813, -21.7936, -4.9057

# Details

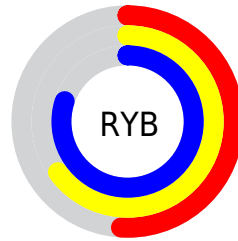
The Yxy color **50.3835, 0.2603, 0.3220** is a light color, and the websafe version is hex **99CCCC**. A complement of this color would be **31.6270, 0.4000, 0.3358**, and the grayscale version is **45.2206, 0.3127, 0.3290**.

A 20% lighter version of the original color is **89.0543, 0.2726, 0.3289**, and **24.2480, 0.2462, 0.3194** is the 20% darker color. If you saturate the color by 10%, you get **48.3118, 0.2490, 0.3199**, and if you desaturate by 10%, it is **52.7869, 0.2731, 0.3241**.

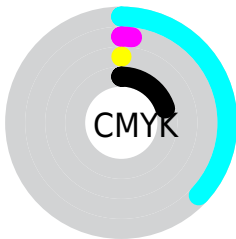
# Distribution



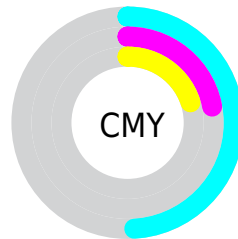
- Red (51%)
- Green (78%)
- Blue (80%)



- Red (51%)
- Yellow (65%)
- Blue (80%)



- Cyan (37%)
- Magenta (2%)
- Yellow (0%)
- Black (20%)




- Cyan (49%)
- Magenta (22%)
- Yellow (20%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 50.3835, 0.2603, 0.3220 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 50.3835, 0.2603, 0.3220 by changing the saturation by 10% instead.





 50.3835, 0.2603,  
0.3220

 50.3835, 0.2603,  
0.3220


388.1638, 0.2857,  
0.3260


 35.7182, 0.2542,  
0.3209


 90.7428, 0.2694,  
0.3235

 24.2166, 0.2465,  
0.3194


 117.2057, 0.2728,  
0.3241

 15.4944, 0.2365,  
0.3173


 148.3698, 0.2758,  
0.3245

 9.1671, 0.2230,  
0.3141

184.6196, 0.2783,  
0.3249

 4.8503, 0.2039,  
0.3091

226.3395, 0.2805,  
0.3252

 2.1597, 0.1749,  
0.2998

273.9139, 0.2825,

 0.6979, 0.0649,

0.3255

0.2960

327.7272, 0.2842,  
0.3257

0.0000, 0.0000,  
0.0000

50.3835, 0.2603,  
0.3220

50.3835, 0.2603,  
0.3220

48.3118, 0.2490,  
0.3199

52.7869, 0.2731,  
0.3241

46.5465, 0.2394,  
0.3176

55.5337, 0.2870,  
0.3260

45.0680, 0.2316,  
0.3154

58.6426, 0.3018,  
0.3278

43.8521, 0.2257,  
0.3131

62.1288, 0.3173,  
0.3295

42.8704, 0.2218,  
0.3109

66.0070, 0.3330,  
0.3310

■ 42.0847, 0.2194,  
0.3087

■ 70.2908, 0.3487,  
0.3323

■ 41.8729, 0.2189,  
0.3081

■ 71.5178, 0.3508,  
0.3337

■ 72.1888, 0.3505,  
0.3351

■ 72.8656, 0.3503,  
0.3364

# Harmonies

## Analogous

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



50.3835, 0.2801, 0.3520



50.3835, 0.2603, 0.3220



50.3835, 0.2540, 0.2960

# Triad

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



50.3835, 0.2603, 0.3220



50.3835, 0.3138, 0.2876



50.3835, 0.3646, 0.3774

# Complementary

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



50.3835, 0.2603, 0.3220



31.6270, 0.4000, 0.3358

# 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.



50.3835, 0.3751, 0.3575



50.3835, 0.2603, 0.3220



50.3835, 0.3450, 0.3069

# Square

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



50.3835, 0.2603, 0.3220



50.3835, 0.2837, 0.2780



50.3835, 0.3679, 0.3320



50.3835, 0.3402, 0.3850



# Rectangle

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



50.3835, 0.2603, 0.3220



50.3835, 0.2580, 0.2843



50.3835, 0.3679, 0.3320



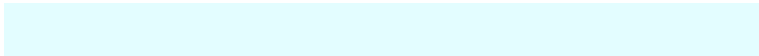
50.3835, 0.3700, 0.3718

# Sweetspot

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



50.3855, 0.2603, 0.3220



93.8837, 0.2957, 0.3271



50.0342, 0.3051, 0.4348



19.9449, 0.2937, 0.3268



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.



50.3855, 0.2603, 0.3220



79.5857, 0.2506, 0.3202



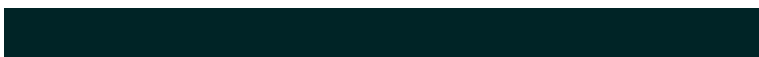
35.3462, 0.2527, 0.2690



12.5949, 0.2984, 0.3274



26.1125, 0.2190, 0.3084



1.3863, 0.2202, 0.3127



# Inverse Universe

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



32.8534, 0.3219, 0.2433



46.8296, 0.3243, 0.2250



43.6258, 0.3825, 0.3821



11.3904, 0.3148, 0.3076



10.4391, 0.3381, 0.1636

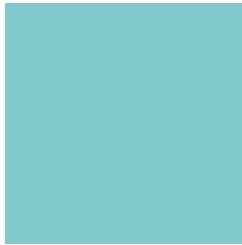


0.5425, 0.3344, 0.1616



# Previews

## White Background



This preview shows how the Yxy color 50.3835, 0.2603, 0.3220 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

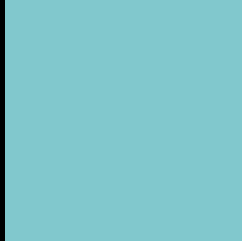
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 50.3835, 0.2603, 0.3220 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

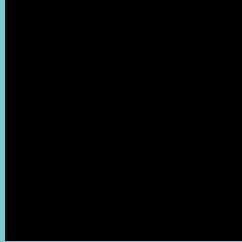
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

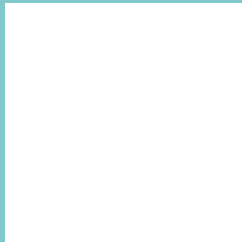
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 50.3835, 0.2603, 0.3220**

## Background



This preview shows how black text looks on a background with the Yxy color 50.3835, 0.2603, 0.3220.

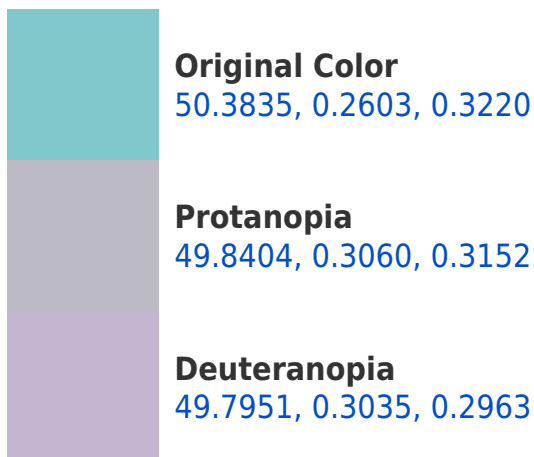


This preview shows how white text looks on a background with the Yxy color 50.3835, 0.2603, 0.3220.

# 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





## Tritanopia

50.5272, 0.2562, 0.3088

# Trichromacy



**Original Color**

50.3835, 0.2603, 0.3220

**Protanomaly**

49.6472, 0.2875, 0.3172

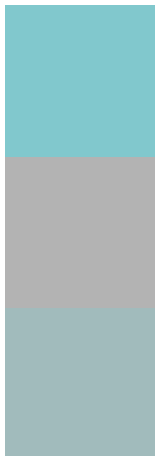
**Deuteranomaly**

49.7199, 0.2856, 0.3048

**Tritanomaly**

50.2958, 0.2573, 0.3127

# Monochromacy



**Original Color**

50.3835, 0.2603, 0.3220

**Achromatopsia**

45.0786, 0.3127, 0.3290

**Achromatomaly**

46.7486, 0.2911, 0.3276

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 50.3835, 0.2603, 0.3220 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(129, 200, 205)` looks like.

```
.text, #text, p{  
    color:rgb(129, 200, 205)  
}
```

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(129, 200, 205) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(129, 200, 205) }
```

## Border

The CSS property to change the border of an element to Yxy 50.3835, 0.2603, 0.3220 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(129, 200, 205) }
```

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

```
.border{ border-color:rgb(129, 200, 205) }
```

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

Here you see how a box with a 4 pixel `rgb(129, 200, 205)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(129, 200, 205); -webkit-box-shadow:4px 4px 4px 4px rgb(129, 200, 205); box-shadow:4px 4px 4px 4px rgb(129, 200, 205) }
```



# Background

The CSS property to change the background color of an element to Yxy 50.3835, 0.2603, 0.3220 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(129, 200, 205) }
```

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

```
.background{ background-color: rgb(129,  
200, 205) }
```

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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