

# Converting Colors

$Y_{xy}(52.8399, 0.2645, 0.3525)$

Have a look what the booklet for  
Yxy(52.8399, 0.2645, 0.3525)  
contains.

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# Color

**Yxy(52.8664, 0.2648, 0.3525)**

# Conversions

## Conversions Part 1

Format	Color
Hex	78D0BF
RGB	120, 208, 191
RGB Percent	47%, 82%, 75%
CMY	0.5291, 0.1843, 0.2510
CMYK	0.42, 0.00, 0.08, 0.18
HSL	168°, 48%, 64%
HSV	168°, 42%, 82%
XYZ	39.7135, 52.8664, 57.3957
YIQ	179.7500, -46.9910, -23.9430

# Conversions

## Conversions Part 2

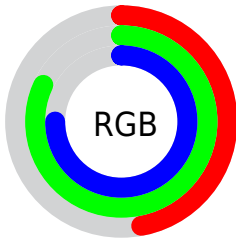
<b>Format</b>	<b>Color</b>
<b>RYB</b>	120, 169, 208
Decimal	7917759
CIELab	77.80, -30.50, 0.16
CIELCh	78, 30.496, 179.706
Yxy	52.8664, 0.2648, 0.3525
Android (android.graphics.Color)	4286107839 (0xFF78D0BF)
YUV	179.7500, 5.5462, -52.4008
Hunter-Lab	72.7093, -29.7452, 4.0938

# Details

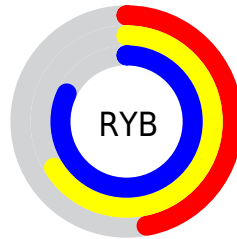
The Yxy color **52.8664, 0.2648, 0.3525** is a light color, and the websafe version is hex **66CCCC**. A complement of this color would be **28.6718, 0.3998, 0.3076**, and the grayscale version is **45.5007, 0.3127, 0.3290**.

A 20% lighter version of the original color is **87.4655, 0.2719, 0.3376**, and **25.7074, 0.2518, 0.3578** is the 20% darker color. If you saturate the color by 10%, you get **51.3634, 0.2566, 0.3591**, and if you desaturate by 10%, it is **54.7015, 0.2745, 0.3462**.

# Distribution



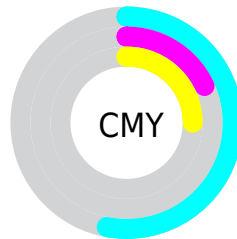
- Red (47%)
- Green (82%)
- Blue (75%)



- Red (47%)
- Yellow (66%)
- Blue (82%)



- Cyan (42%)
- Magenta (0%)
- Yellow (8%)
- Black (18%)




- Cyan (53%)
- Magenta (18%)
- Yellow (25%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 52.8664, 0.2648, 0.3525 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 52.8664, 0.2648, 0.3525 by changing the saturation by 10% instead.




 52.8664, 0.2648,  
0.3525

 52.8664, 0.2648,  
0.3525


397.7723, 0.2881,  
0.3411

 37.6961, 0.2592,  
0.3553


 94.4077, 0.2731,  
0.3484

 25.7469, 0.2520,  
0.3588


 121.5476, 0.2763,  
0.3469

 16.6344, 0.2427,  
0.3633


 153.4461, 0.2790,  
0.3455

 9.9742, 0.2301,  
0.3696

190.4877, 0.2813,  
0.3444

 5.3818, 0.2120,  
0.3785

233.0567, 0.2834,  
0.3434

 2.4730, 0.1842,  
0.3922

281.5376, 0.2852,

 0.8631, 0.0406,

0.3425

0.4621

336.3146, 0.2867,  
0.3417

0.0000, 0.0000,  
0.0000

52.8664, 0.2648,  
0.3525

52.8664, 0.2648,  
0.3525

51.3634, 0.2566,  
0.3591

54.7015, 0.2745,  
0.3462

50.1650, 0.2500,  
0.3659

56.8818, 0.2855,  
0.3404

49.2498, 0.2454,  
0.3729


59.4269, 0.2973,  
0.3350


48.5905, 0.2427,  
0.3800

62.3535, 0.3098,  
0.3301

48.1545, 0.2420,  
0.3870


65.6771, 0.3227,  
0.3256

 47.9263, 0.2423,  
0.3924

 69.4123, 0.3357,  
0.3216

 71.4902, 0.3405,  
0.3178

 71.7048, 0.3375,  
0.3137

 71.9246, 0.3345,  
0.3097

# Harmonies

## Analogous

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



52.8664, 0.3006, 0.3871



52.8664, 0.2648, 0.3525



52.8664, 0.2424, 0.3126

# Triad

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



52.8664, 0.2648, 0.3525



52.8664, 0.2809, 0.2647



52.8664, 0.3935, 0.3701

# Complementary

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



52.8664, 0.2648, 0.3525



28.6718, 0.3998, 0.3076

# 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.



52.8664, 0.3883, 0.3377



52.8664, 0.2648, 0.3525



52.8664, 0.3209, 0.2794

# Square

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



52.8664, 0.2648, 0.3525



52.8664, 0.2513, 0.2647



52.8664, 0.3611, 0.3054



52.8664, 0.3756, 0.3947



# Rectangle

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



52.8664, 0.2648, 0.3525



52.8664, 0.2373, 0.2901



52.8664, 0.3611, 0.3054



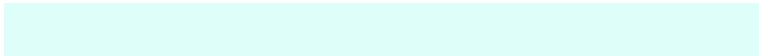
52.8664, 0.3944, 0.3597

# Sweetspot

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



52.8685, 0.2648, 0.3525



93.8398, 0.2962, 0.3354



51.8412, 0.3188, 0.4543



19.8842, 0.2935, 0.3366



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.



52.8685, 0.2648, 0.3525



81.5809, 0.2571, 0.3586



41.8540, 0.2494, 0.2916



13.3662, 0.3008, 0.3335



29.8867, 0.2421, 0.3914



1.6814, 0.2385, 0.3786



# Inverse Universe

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



28.6718, 0.3998, 0.3076



38.1199, 0.4306, 0.3035



35.4668, 0.4066, 0.3628



11.8451, 0.3261, 0.3245



8.4651, 0.6078, 0.3122

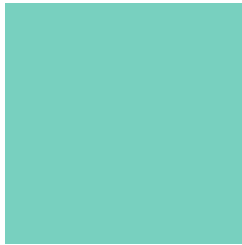


0.4846, 0.5572, 0.2843



# Previews

## White Background



This preview shows how the Yxy color 52.8664, 0.2648, 0.3525 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

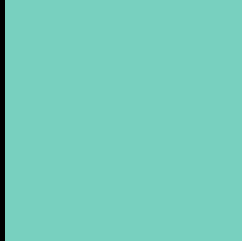
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 52.8664, 0.2648, 0.3525 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

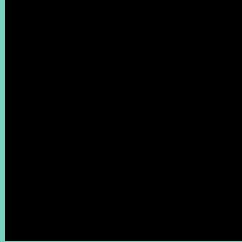
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

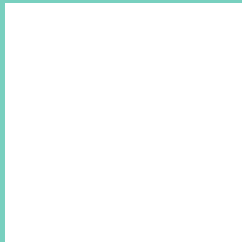
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 52.8664, 0.2648, 0.3525**

## Background



This preview shows how black text looks on a background with the Yxy color 52.8664, 0.2648, 0.3525.

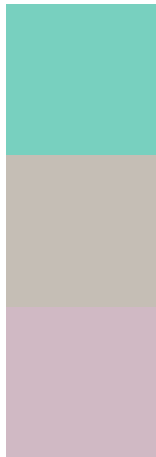


This preview shows how white text looks on a background with the Yxy color 52.8664, 0.2648, 0.3525.

# 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

52.8664, 0.2648, 0.3525

### Protanopia

52.0334, 0.3255, 0.3402

### Deuteranopia

52.0933, 0.3234, 0.3159



## Tritanopia

52.9422, 0.2524, 0.3078

# Trichromacy



**Original Color**

52.8664, 0.2648, 0.3525

**Protanomaly**

51.8703, 0.2996, 0.3447

**Deuteranomaly**

51.2651, 0.2986, 0.3277

**Tritanomaly**

52.6261, 0.2569, 0.3235

# Monochromacy



**Original Color**

52.8664, 0.2648, 0.3525

**Achromatopsia**

45.6411, 0.3127, 0.3290

**Achromatomaly**

47.5567, 0.2918, 0.3371

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 52.8664, 0.2648, 0.3525 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(120, 208, 191)` looks like.

```
.text, #text, p{  
    color:rgb(120, 208, 191)  
}
```

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(120, 208, 191) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(120, 208, 191) }
```

## Border

The CSS property to change the border of an element to Yxy 52.8664, 0.2648, 0.3525 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(120, 208, 191) }
```

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

```
.border{ border-color:rgb(120, 208, 191) }
```

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

Here you see how a box with a 4 pixel `rgb(120, 208, 191)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(120, 208, 191); -webkit-box-  
shadow:4px 4px 4px 4px rgb(120, 208, 191);  
box-shadow:4px 4px 4px 4px rgb(120, 208,  
191) }
```



# Background

The CSS property to change the background color of an element to Yxy 52.8664, 0.2648, 0.3525 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(120, 208, 191) }
```

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

```
.background{ background-color: rgb(120,  
208, 191) }
```

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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