

# Converting Colors

$Y_{xy}(52.2772, 0.2762, 0.3520)$

Have a look what the booklet for  
Yxy(52.2772, 0.2762, 0.3520)  
contains.

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# Color

**Yxy(52.0920, 0.2764, 0.3522)**

# Conversions

## Conversions Part 1

Format	Color
Hex	89CCBB
RGB	137, 204, 187
RGB Percent	54%, 80%, 73%
CMY	0.4628, 0.2000, 0.2665
CMYK	0.33, 0.00, 0.08, 0.20
HSL	165°, 40%, 67%
HSV	165°, 33%, 80%
XYZ	40.8808, 52.0920, 54.9318
YIQ	182.0290, -34.4750, -19.4910

# Conversions

## Conversions Part 2

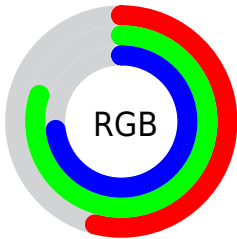
<b>Format</b>	<b>Color</b>
<b>RYB</b>	137, 175, 204
Decimal	9030843
CIELab	77.34, -24.88, 1.71
CIElCh	77, 24.943, 176.072
Yxy	52.0920, 0.2764, 0.3522
Android (android.graphics.Color)	4287220923 (0xFF89CCBB)
YUV	182.0290, 2.4507, -39.4904
Hunter-Lab	72.1748, -25.2009, 5.3971

# Details

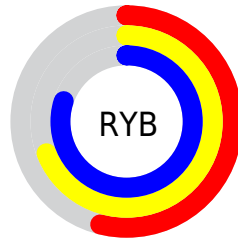
The Yxy color **52.0920, 0.2764, 0.3522** is a light color, and the websafe version is hex **99CCCC**. A complement of this color would be **33.0593, 0.3688, 0.3073**, and the grayscale version is **46.7976, 0.3127, 0.3290**.

A 20% lighter version of the original color is **89.1975, 0.2823, 0.3418**, and **25.4187, 0.2666, 0.3593** is the 20% darker color. If you saturate the color by 10%, you get **50.3127, 0.2673, 0.3605**, and if you desaturate by 10%, it is **54.2094, 0.2866, 0.3444**.

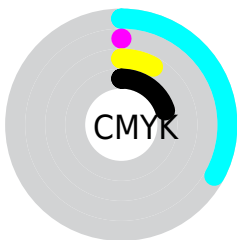
# Distribution



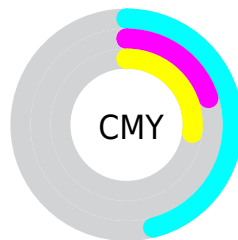
- Red (54%)
- Green (80%)
- Blue (73%)



- Red (54%)
- Yellow (69%)
- Blue (80%)



- Cyan (33%)
- Magenta (0%)
- Yellow (8%)
- Black (20%)




- Cyan (46%)
- Magenta (20%)
- Yellow (27%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 52.0920, 0.2764, 0.3522 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 52.0920, 0.2764, 0.3522 by changing the saturation by 10% instead.





 52.0920, 0.2764,  
0.3522


 52.0920, 0.2764,  
0.3522


394.7917, 0.2942,  
0.3407

 37.0784, 0.2721,  
0.3550


 93.2669, 0.2828,  
0.3481

 25.2682, 0.2665,  
0.3586


 120.1970, 0.2852,  
0.3465

 16.2770, 0.2593,  
0.3634


 151.8681, 0.2873,  
0.3452

 9.7204, 0.2493,  
0.3699

188.6645, 0.2891,  
0.3440

 5.2140, 0.2349,  
0.3795

230.9707, 0.2906,  
0.3431

 2.3733, 0.2122,  
0.3950

279.1710, 0.2920,

 0.8121, 0.0944,

0.3422

0.4664

333.6499, 0.2932,  
0.3414

0.0000, 0.0000,  
0.0000

52.0920, 0.2764,  
0.3522

52.0920, 0.2764,  
0.3522

50.3127, 0.2673,  
0.3605

54.2094, 0.2866,  
0.3444

48.8467, 0.2597,  
0.3694

56.6757, 0.2977,  
0.3373

47.6757, 0.2537,  
0.3785

59.5087, 0.3093,  
0.3307


46.7770, 0.2497,  
0.3879

62.7235, 0.3213,  
0.3249

46.1245, 0.2476,  
0.3974

66.3341, 0.3334,  
0.3196

 45.6866, 0.2474,  
0.4068

 69.5105, 0.3419,  
0.3148

 45.4651, 0.2482,  
0.4135

 69.7852, 0.3380,  
0.3096

 70.0685, 0.3342,  
0.3045

 70.3604, 0.3303,  
0.2995

# Harmonies

## Analogous

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



52.0920, 0.3071, 0.3786



52.0920, 0.2764, 0.3522



52.0920, 0.2559, 0.3198

# Triad

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



52.0920, 0.2764, 0.3522



52.0920, 0.2830, 0.2747



52.0920, 0.3796, 0.3606

# Complementary

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



52.0920, 0.2764, 0.3522



33.0593, 0.3688, 0.3073

# 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.



52.0920, 0.3728, 0.3334



52.0920, 0.2764, 0.3522



52.0920, 0.3155, 0.2856

# Square

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



52.0920, 0.2764, 0.3522



52.0920, 0.2596, 0.2767



52.0920, 0.3489, 0.3066



52.0920, 0.3674, 0.3816



# Rectangle

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



52.0920, 0.2764, 0.3522



52.0920, 0.2503, 0.3004



52.0920, 0.3489, 0.3066



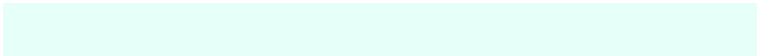
52.0920, 0.3795, 0.3519

# Sweetspot

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



52.0941, 0.2764, 0.3522



95.0714, 0.3008, 0.3354



51.9479, 0.3216, 0.4218



20.2119, 0.2992, 0.3364



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.



52.0941, 0.2764, 0.3522



84.2459, 0.2702, 0.3577



45.8012, 0.2636, 0.3074



12.6766, 0.3017, 0.3349



28.6312, 0.2478, 0.4122



1.4888, 0.2428, 0.3939



# Inverse Universe

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



33.0593, 0.3688, 0.3073



48.2115, 0.3854, 0.3028



37.3051, 0.3816, 0.3494



11.2595, 0.3251, 0.3232



8.2470, 0.5901, 0.3024

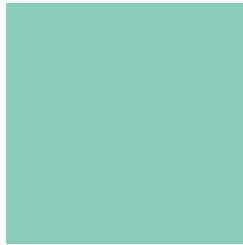


0.4381, 0.5329, 0.2709



# Previews

## White Background



This preview shows how the Yxy color 52.0920, 0.2764, 0.3522 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

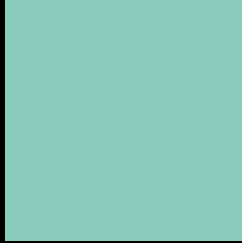
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 52.0920, 0.2764, 0.3522 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

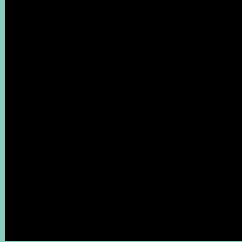
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 52.0920, 0.2764, 0.3522**

## **Background**



This preview shows how black text looks on a background with the Yxy color 52.0920, 0.2764, 0.3522.

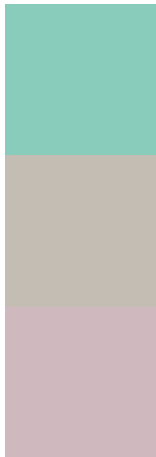


This preview shows how white text looks on a background with the Yxy color 52.0920, 0.2764, 0.3522.

# 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

52.0920, 0.2764, 0.3522

### Protanopia

51.3856, 0.3263, 0.3415

### Deuteranopia

51.4525, 0.3275, 0.3207



## Tritanopia

52.1957, 0.2629, 0.3081

# Trichromacy



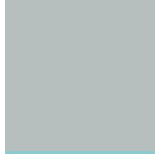
## Original Color

52.0920, 0.2764, 0.3522



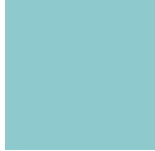
## Protanomaly

51.0749, 0.3064, 0.3446



## Deuteranomaly

50.9244, 0.3062, 0.3303



## Tritanomaly

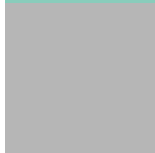
51.8438, 0.2677, 0.3235

# Monochromacy



## Original Color

52.0920, 0.2764, 0.3522



## Achromatopsia

46.7784, 0.3127, 0.3290



## Achromatomaly

48.3946, 0.2979, 0.3370

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 52.0920, 0.2764, 0.3522 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(137, 204, 187)` looks like.

```
.text, #text, p{  
    color:rgb(137, 204, 187)  
}
```

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(137, 204, 187) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(137, 204, 187) }
```

## Border

The CSS property to change the border of an element to Yxy 52.0920, 0.2764, 0.3522 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(137, 204, 187) }
```

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

```
.border{ border-color:rgb(137, 204, 187) }
```

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

Here you see how a box with a 4 pixel `rgb(137, 204, 187)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(137, 204, 187); -webkit-box-  
shadow:4px 4px 4px 4px rgb(137, 204, 187);  
box-shadow:4px 4px 4px 4px rgb(137, 204,  
187) }
```



# Background

The CSS property to change the background color of an element to Yxy 52.0920, 0.2764, 0.3522 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(137, 204, 187) }
```

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

```
.background{ background-color: rgb(137,  
204, 187) }
```

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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