

# Converting Colors

$Y_{xy}(52.5029, 0.2330, 0.3329)$

Have a look what the booklet for  
Yxy(52.5029, 0.2330, 0.3329)  
contains.

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# Color

**Yxy(52.5900, 0.2330, 0.3330)**

# Conversions

## Conversions Part 1

Format	Color
Hex	3AD4D1
RGB	58, 212, 209
RGB Percent	23%, 83%, 82%
CMY	0.7726, 0.1686, 0.1803
CMYK	0.73, 0.00, 0.01, 0.17
HSL	179°, 64%, 53%
HSV	179°, 73%, 83%
XYZ	36.7972, 52.5900, 68.5407
YIQ	165.6120, -90.8210, -33.5810

# Conversions

## Conversions Part 2

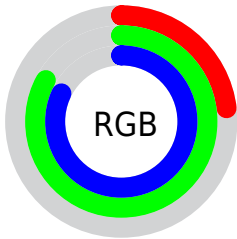
<b>Format</b>	<b>Color</b>
<b>RYB</b>	58, 136, 212
Decimal	3855569
CIELab	77.63, -39.17, -9.97
CIELCh	78, 40.422, 194.281
Yxy	52.5900, 0.2330, 0.3330
Android (android.graphics.Color)	4282045649 (0xFF3AD4D1)
YUV	165.6120, 21.3903, -94.3757
Hunter-Lab	72.5190, -36.3346, -5.2742

# Details

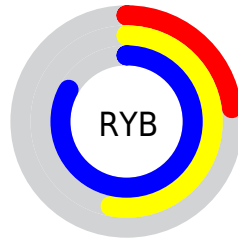
The Yxy color **52.5900, 0.2330, 0.3330** is a light color, and the websafe version is hex **33CCCC**. The color can be described as light muted cyan. A complement of this color would be **17.3590, 0.5560, 0.3271**, and the grayscale version is **37.8635, 0.3127, 0.3290**.

A 20% lighter version of the original color is **83.3292, 0.2475, 0.3288**, and **26.4805, 0.2257, 0.3326** is the 20% darker color. If you saturate the color by 10%, you get **52.0618, 0.2292, 0.3336**, and if you desaturate by 10%, it is **53.3836, 0.2388, 0.3324**.

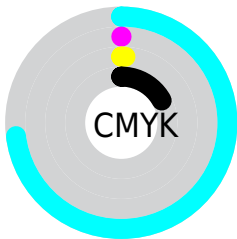
# Distribution



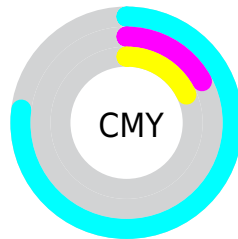
- Red (23%)
- Green (83%)
- Blue (82%)



- Red (23%)
- Yellow (53%)
- Blue (83%)



- Cyan (73%)
- Magenta (0%)
- Yellow (1%)
- Black (17%)



- Cyan (77%)
- Magenta (17%)
- Yellow (18%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 52.5900, 0.2330, 0.3330 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 52.5900, 0.2330, 0.3330 by changing the saturation by 10% instead.




 52.5900, 0.2330,  
0.3330

 52.5900, 0.2330,  
0.3330

396.7101, 0.2711,  
0.3321


 37.4756, 0.2241,  
0.3329


 94.0008, 0.2464,  
0.3329

 25.5759, 0.2130,  
0.3326

 121.0659, 0.2516,  
0.3328

 16.5067, 0.1987,  
0.3320


 152.8834, 0.2560,  
0.3327

 9.8834, 0.1800,  
0.3306

 189.8377, 0.2598,  
0.3326

 5.3217, 0.1545,  
0.3275

232.3131, 0.2632,  
0.3324

 2.4372, 0.1183,  
0.3203

280.6940, 0.2661,

 0.8449, 0.0000,

0.3323

335.3649, 0.2687,  
0.3322

0.3224

0.0000, 0.0000,  
0.0000

52.5900, 0.2330,  
0.3330

52.0618, 0.2292,  
0.3336

51.7587, 0.2271,  
0.3342

51.6373, 0.2263,  
0.3347

52.5900, 0.2330,  
0.3330

53.3836, 0.2388,  
0.3324

54.4652, 0.2464,  
0.3318

55.8618, 0.2560,  
0.3312

57.5956, 0.2672,  
0.3306

59.6868, 0.2799,  
0.3301

■ 62.1539, 0.2938,  
0.3296

■ 65.0145, 0.3087,  
0.3291

■ 68.2846, 0.3241,  
0.3287

■ 71.9797, 0.3399,  
0.3283

# Harmonies

## Analogous

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



52.5900, 0.2715, 0.3871



52.5900, 0.2330, 0.3330



52.5900, 0.2156, 0.2836

# Triad

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



52.5900, 0.2330, 0.3330



52.5900, 0.2947, 0.2532



52.5900, 0.4110, 0.3990

# Complementary

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



52.5900, 0.2330, 0.3330



17.3590, 0.5560, 0.3271

# 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.



52.5900, 0.4206, 0.3595



52.5900, 0.2330, 0.3330



52.5900, 0.3501, 0.2794

# Square

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



52.5900, 0.2330, 0.3330



52.5900, 0.2487, 0.2432



52.5900, 0.3979, 0.3170



52.5900, 0.3745, 0.4247



# Rectangle

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



52.5900, 0.2330, 0.3330



52.5900, 0.2168, 0.2607



52.5900, 0.3979, 0.3170



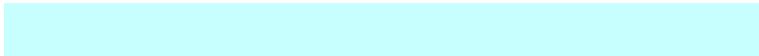
52.5900, 0.4177, 0.3868

# Sweetspot

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



52.5920, 0.2330, 0.3330



90.7985, 0.2805, 0.3300



48.4548, 0.3038, 0.5583



19.2350, 0.2768, 0.3302



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.



52.5920, 0.2330, 0.3330



78.7915, 0.2278, 0.3340



24.4467, 0.2033, 0.2158



14.1035, 0.2985, 0.3294



31.8790, 0.2263, 0.3346



1.9241, 0.2260, 0.3335



# Inverse Universe

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



17.3590, 0.5560, 0.3271



22.4925, 0.6147, 0.3282



30.2313, 0.4845, 0.4082



12.4247, 0.3288, 0.3286



8.6484, 0.6378, 0.3287

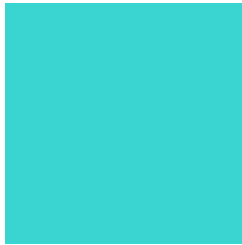


0.5230, 0.6307, 0.3248



# Previews

## White Background



This preview shows how the Yxy color 52.5900, 0.2330, 0.3330 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

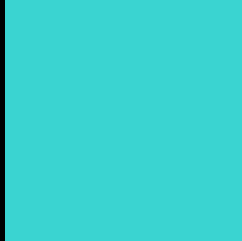
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 52.5900, 0.2330, 0.3330 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

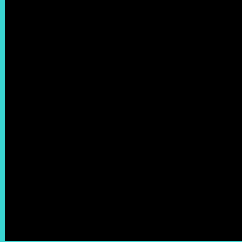
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

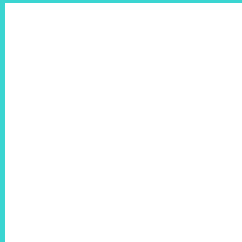
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 52.5900, 0.2330, 0.3330**

## **Background**



This preview shows how black text looks on a background with the Yxy color 52.5900, 0.2330, 0.3330.

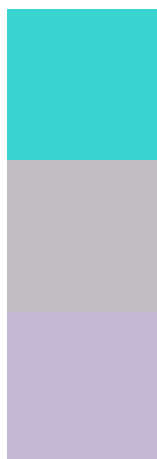


This preview shows how white text looks on a background with the Yxy color 52.5900, 0.2330, 0.3330.

# 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

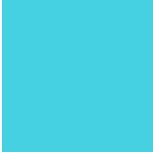
52.5900, 0.2330, 0.3330

### Protanopia

51.5418, 0.3106, 0.3216

### Deuteranopia

51.4745, 0.2998, 0.2932



## **Tritanopia**

52.3571, 0.2275, 0.3056

# Trichromacy



## Original Color

52.5900, 0.2330, 0.3330



## Protanomaly

49.9423, 0.2714, 0.3248



## Deuteranomaly

49.9453, 0.2651, 0.3052



## Tritanomaly

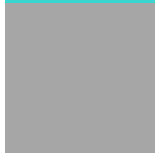
52.3843, 0.2293, 0.3149

# Monochromacy



## Original Color

52.5900, 0.2330, 0.3330



## Achromatopsia

38.1326, 0.3127, 0.3290



## Achromatomaly

41.7564, 0.2700, 0.3303

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 52.5900, 0.2330, 0.3330 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(58, 212, 209)` looks like.

```
.text, #text, p{  
    color:rgb(58, 212, 209)  
}
```

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(58, 212, 209) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(58, 212, 209) }
```

## Border

The CSS property to change the border of an element to Yxy 52.5900, 0.2330, 0.3330 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(58, 212, 209) }
```

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

```
.border{ border-color:rgb(58, 212, 209) }
```

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

Here you see how a box with a 4 pixel `rgb(58, 212, 209)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(58, 212, 209); -webkit-box-  
shadow:4px 4px 4px 4px rgb(58, 212, 209);  
box-shadow:4px 4px 4px 4px rgb(58, 212,  
209) }
```



# Background

The CSS property to change the background color of an element to Yxy 52.5900, 0.2330, 0.3330 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(58, 212, 209) }
```

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

```
.background{ background-color: rgb(58, 212,  
209) }
```

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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