

# Converting Colors

$Yxy(53.0037, 0.2253, 0.3026)$

Have a look what the booklet for  
Yxy(53.0037, 0.2253, 0.3026)  
contains.

<b>Yxy(52.8963, 0.2250, 0.3017)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

# Color

**Yxy(52.8963, 0.2250, 0.3017)**

# Conversions

## Conversions Part 1

Format	Color
Hex	40D2E6
RGB	64, 210, 230
RGB Percent	25%, 82%, 90%
CMY	0.7484, 0.1765, 0.0981
CMYK	0.72, 0.09, 0.00, 0.10
HSL	187°, 77%, 58%
HSV	187°, 72%, 90%
XYZ	39.4487, 52.8963, 82.9825
YIQ	168.6260, -93.4360, -24.7320

# Conversions

## Conversions Part 2

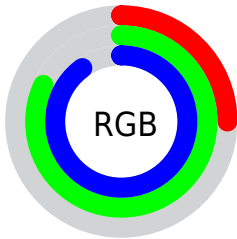
Format	Color
<b>RYB</b>	64, 142, 230
Decimal	4248294
CIELab	77.81, -31.40, -20.94
CIELCh	78, 37.745, 213.692
Yxy	52.8963, 0.2250, 0.3017
Android (android.graphics.Color)	4282438374 (0xFF40D2E6)
YUV	168.6260, 30.2574, -91.7570
Hunter-Lab	72.7298, -30.4588, -16.7372

# Details

The Yxy color **52.8963, 0.2250, 0.3017** 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 **23.5545, 0.5421, 0.3475**, and the grayscale version is **39.3847, 0.3127, 0.3290**.

A 20% lighter version of the original color is **83.8083, 0.2497, 0.3288**, and **26.4987, 0.2151, 0.2944** is the 20% darker color. If you saturate the color by 10%, you get **50.9207, 0.2195, 0.2975**, and if you desaturate by 10%, it is **55.2174, 0.2325, 0.3060**.

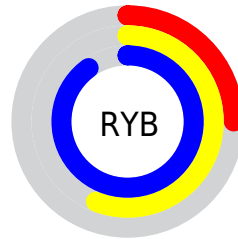
# Distribution



Red (25%)

Green (82%)

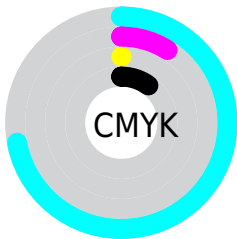
Blue (90%)



Red (25%)

Yellow (56%)

Blue (90%)

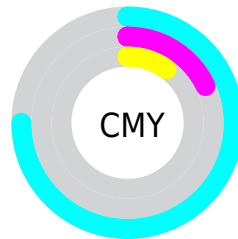


Cyan (72%)

Magenta (9%)

Yellow (0%)

Black (10%)



Cyan (75%)

Magenta (18%)


Yellow (10%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 52.8963, 0.2250, 0.3017 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 52.8963, 0.2250, 0.3017 by changing the saturation by 10% instead.





 52.8963, 0.2250,  
0.3017


 52.8963, 0.2250,  
0.3017


397.8871, 0.2663,  
0.3163

 37.7200, 0.2155,  
0.2978


 94.4518, 0.2394,  
0.3072

 25.7654, 0.2037,  
0.2928


 121.5997, 0.2450,  
0.3092

 16.6482, 0.1889,  
0.2860


 153.5070, 0.2498,  
0.3109

 9.9840, 0.1697,  
0.2763

 190.5580, 0.2540,  
0.3123

 5.3884, 0.1442,  
0.2618

233.1371, 0.2576,  
0.3135

 2.4769, 0.1095,  
0.2385

281.6287, 0.2609,

 0.8650, 0.0133,

0.3146

0.2078

336.4173, 0.2637,  
0.3155

0.0000, 0.0000,  
0.0000

52.8963, 0.2250,  
0.3017

52.8963, 0.2250,  
0.3017

50.9207, 0.2195,  
0.2975

55.2174, 0.2325,  
0.3060

49.2428, 0.2158,  
0.2932


57.9130, 0.2419,  
0.3101

48.0770, 0.2139,  
0.2900

61.0155, 0.2530,  
0.3142

64.5520, 0.2656,  
0.3181

68.5472, 0.2794,  
0.3218

 73.0238, 0.2941,  
0.3252

 78.0031, 0.3094,  
0.3284

 83.5048, 0.3251,  
0.3312

 86.3582, 0.3295,  
0.3339

# Harmonies

## Analogous

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



52.8963, 0.2489, 0.3512



52.8963, 0.2250, 0.3017



52.8963, 0.2226, 0.2658

# Triad

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



52.8963, 0.2250, 0.3017



52.8963, 0.3294, 0.2723



52.8963, 0.3849, 0.4124

# Complementary

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



52.8963, 0.2250, 0.3017



23.5545, 0.5421, 0.3475

# 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.



52.8963, 0.4110, 0.3829



52.8963, 0.2250, 0.3017



52.8963, 0.3783, 0.3047

# Square

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



52.8963, 0.2250, 0.3017



52.8963, 0.2793, 0.2525



52.8963, 0.4091, 0.3439



52.8963, 0.3405, 0.4201

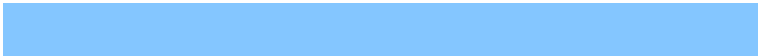


# Rectangle

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



52.8963, 0.2250, 0.3017



52.8963, 0.2329, 0.2527



52.8963, 0.4091, 0.3439



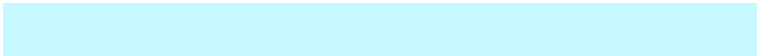
52.8963, 0.3962, 0.4043

# Sweetspot

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



52.8982, 0.2250, 0.3017



86.6294, 0.2794, 0.3218



58.3130, 0.2958, 0.5391



18.2349, 0.2755, 0.3208



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

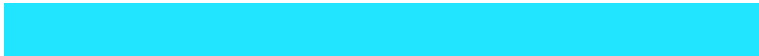


# Same Dimension

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



52.8982, 0.2250, 0.3017



63.1745, 0.2173, 0.2952



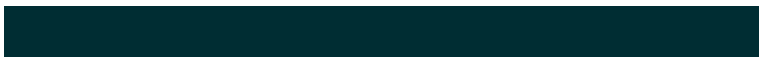
22.1723, 0.1941, 0.1786



16.0242, 0.2982, 0.3261



27.3427, 0.2141, 0.2906



2.1045, 0.2158, 0.2967



# Inverse Universe

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



25.1570, 0.3424, 0.1868



27.9718, 0.3493, 0.1750



44.6159, 0.4595, 0.4337



14.5837, 0.3156, 0.3086



11.9580, 0.3538, 0.1723

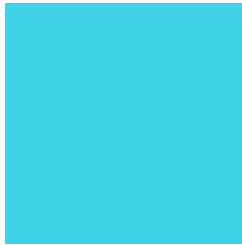


0.8921, 0.3483, 0.1692



# Previews

## White Background



This preview shows how the Yxy color 52.8963, 0.2250, 0.3017 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

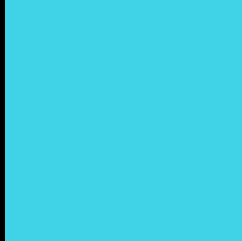
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 52.8963, 0.2250, 0.3017 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

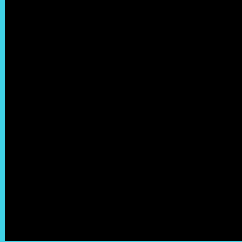
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 52.8963, 0.2250, 0.3017**

## Background



This preview shows how black text looks on a background with the Yxy color 52.8963, 0.2250, 0.3017.



This preview shows how white text looks on a background with the Yxy color 52.8963, 0.2250, 0.3017.

# 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

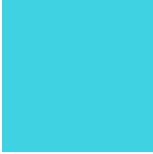
52.8963, 0.2250, 0.3017

### Protanopia

51.9179, 0.2914, 0.2962

### Deuteranopia

52.1036, 0.2785, 0.2725



## **Tritanopia**

52.6634, 0.2257, 0.3056

# Trichromacy



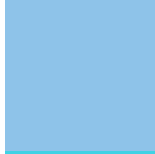
## Original Color

52.8963, 0.2250, 0.3017



## Protanomaly

50.9037, 0.2583, 0.2977



## Deuteranomaly

50.6642, 0.2514, 0.2807



## Tritanomaly

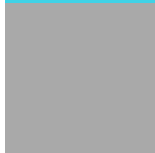
52.7514, 0.2255, 0.3043

# Monochromacy



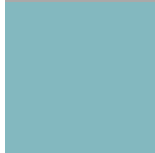
## Original Color

52.8963, 0.2250, 0.3017



## Achromatopsia

39.6755, 0.3127, 0.3290



## Achromatomaly

42.8679, 0.2671, 0.3189

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 52.8963, 0.2250, 0.3017 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(64, 210, 230)` looks like.

```
.text, #text, p{  
    color:rgb(64, 210, 230)  
}
```

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(64, 210, 230) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(64, 210, 230) }
```

## Border

The CSS property to change the border of an element to Yxy 52.8963, 0.2250, 0.3017 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(64, 210, 230) }
```

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

```
.border{ border-color:rgb(64, 210, 230) }
```

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

Here you see how a box with a 4 pixel `rgb(64, 210, 230)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(64, 210, 230); -webkit-box-  
shadow:4px 4px 4px 4px rgb(64, 210, 230);  
box-shadow:4px 4px 4px 4px rgb(64, 210,  
230) }
```



# Background

The CSS property to change the background color of an element to Yxy 52.8963, 0.2250, 0.3017 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(64, 210, 230) }
```

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

```
.background{ background-color: rgb(64, 210,  
230) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor