

# Converting Colors

$Y_{xy}(53.6532, 0.2198, 0.2975)$

Have a look what the booklet for  
Yxy(53.6532, 0.2198, 0.2975)  
contains.

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# Color

**Yxy(53.6430, 0.2200, 0.2978)**

# Conversions

## Conversions Part 1

Format	Color
Hex	2DD4EB
RGB	45, 212, 235
RGB Percent	18%, 83%, 92%
CMY	0.8225, 0.1687, 0.0784
CMYK	0.81, 0.10, 0.00, 0.08
HSL	187°, 83%, 55%
HSV	187°, 81%, 92%
XYZ	39.6288, 53.6430, 86.8591
YIQ	164.6890, -106.9150, -28.2510

# Conversions

## Conversions Part 2

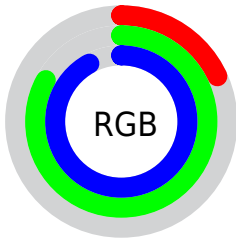
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	45, 134, 235
Decimal	3003627
CIE <sub>Lab</sub>	78.25, -32.73, -22.98
CIE <sub>LCh</sub>	78, 39.994, 215.074
Yxy	53.6430, 0.2200, 0.2978
Android (android.graphics.Color)	4281193707 (0xFF2DD4EB)
YUV	164.6890, 34.6633, -104.9673
Hunter-Lab	73.2414, -31.5912, -19.0448

# Details

The Yxy color **53.6430, 0.2200, 0.2978** is a light color, and the websafe version is hex **33CCCC**. The color can be described as light washed cyan. A complement of this color would be **22.0208, 0.5784, 0.3459**, and the grayscale version is **37.3776, 0.3127, 0.3290**.

A 20% lighter version of the original color is **83.0251, 0.2460, 0.3288**, and **27.3686, 0.2139, 0.2898** is the 20% darker color. If you saturate the color by 10%, you get **51.8369, 0.2161, 0.2936**, and if you desaturate by 10%, it is **55.7749, 0.2258, 0.3021**.

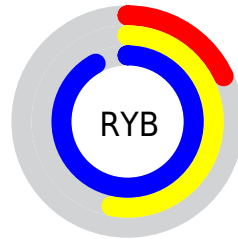
# Distribution



Red (18%)

Green (83%)

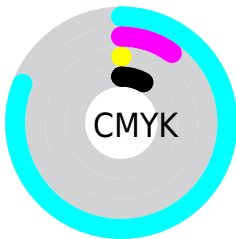
Blue (92%)



Red (18%)

Yellow (53%)

Blue (92%)

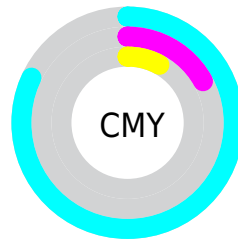


Cyan (81%)

Magenta (10%)

Yellow (0%)

Black (8%)



Cyan (82%)

Magenta (17%)


Yellow (8%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 53.6430, 0.2200, 0.2978 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 53.6430, 0.2200, 0.2978 by changing the saturation by 10% instead.




 53.6430, 0.2200,  
0.2978


 53.6430, 0.2200,  
0.2978


400.7472, 0.2634,  
0.3144


 38.3163, 0.2101,  
0.2935


 95.5499, 0.2351,  
0.3040


 26.2283, 0.1979,  
0.2878


 122.8988, 0.2409,  
0.3063


 16.9945, 0.1826,  
0.2802

 155.0240, 0.2460,  
0.3082

 10.2306, 0.1630,  
0.2696

 192.3099, 0.2504,  
0.3098

 5.5521, 0.1372,  
0.2539

 235.1407, 0.2542,  
0.3112

 2.5747, 0.1026,  
0.2290

283.9009, 0.2576,

 0.9140, 0.0148,

0.3124

0.1950

338.9750, 0.2607,  
0.3135

0.0000, 0.0000,  
0.0000

53.6430, 0.2200,  
0.2978

53.6430, 0.2200,  
0.2978

51.8369, 0.2161,  
0.2936

55.7749, 0.2258,  
0.3021

50.3830, 0.2138,  
0.2897

58.2698, 0.2336,  
0.3064

61.1656, 0.2432,  
0.3106

64.4939, 0.2546,  
0.3147

68.2829, 0.2674,  
0.3186

■ 72.5583, 0.2814,  
0.3222

■ 77.3438, 0.2962,  
0.3256

■ 82.6616, 0.3116,  
0.3288

■ 88.1955, 0.3260,  
0.3316

# Harmonies

## Analogous

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



53.6430, 0.2439, 0.3498



53.6430, 0.2200, 0.2978



53.6430, 0.2186, 0.2611

# Triad

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



53.6430, 0.2200, 0.2978



53.6430, 0.3327, 0.2708



53.6430, 0.3867, 0.4177

# Complementary

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



53.6430, 0.2200, 0.2978



22.0208, 0.5784, 0.3459

# 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.



53.6430, 0.4155, 0.3870



53.6430, 0.2200, 0.2978



53.6430, 0.3839, 0.3051

# Square

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



53.6430, 0.2200, 0.2978



53.6430, 0.2796, 0.2494



53.6430, 0.4152, 0.3462



53.6430, 0.3392, 0.4251

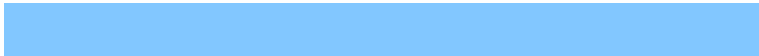


# Rectangle

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



53.6430, 0.2200, 0.2978



53.6430, 0.2300, 0.2482



53.6430, 0.4152, 0.3462



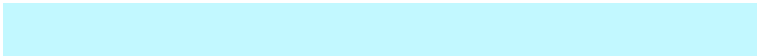
53.6430, 0.3990, 0.4093

# Sweetspot

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



53.6450, 0.2200, 0.2978



85.5393, 0.2765, 0.3210



60.3889, 0.2959, 0.5614



17.9155, 0.2715, 0.3197



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

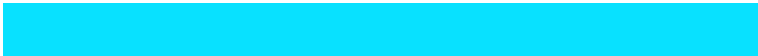


# Same Dimension

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



53.6450, 0.2200, 0.2978



61.1242, 0.2144, 0.2908



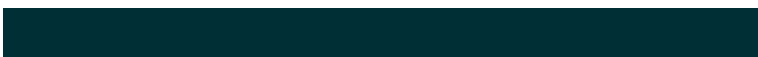
19.5187, 0.1831, 0.1584



16.7919, 0.2981, 0.3261



28.1680, 0.2140, 0.2903



2.2997, 0.2156, 0.2962



# Inverse Universe

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



24.3122, 0.3465, 0.1789



26.8628, 0.3536, 0.1730



43.7885, 0.4773, 0.4381



15.2805, 0.3156, 0.3086



12.3364, 0.3540, 0.1724

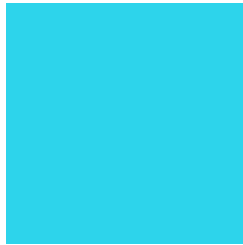


0.9776, 0.3488, 0.1695



# Previews

## White Background



This preview shows how the Yxy color 53.6430, 0.2200, 0.2978 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

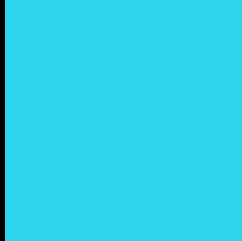
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 53.6430, 0.2200, 0.2978 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

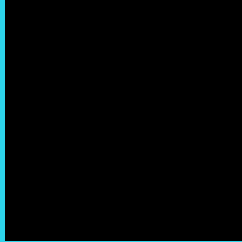
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 53.6430, 0.2200, 0.2978**

## **Background**



This preview shows how black text looks on a background with the Yxy color 53.6430, 0.2200, 0.2978.



This preview shows how white text looks on a background with the Yxy color 53.6430, 0.2200, 0.2978.

# 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

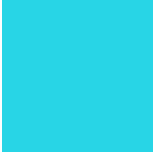
53.6430, 0.2200, 0.2978

### Protanopia

52.6122, 0.2880, 0.2917

### Deuteranopia

52.6968, 0.2747, 0.2683



## **Tritanopia**

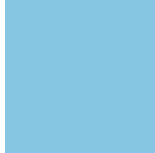
53.7528, 0.2215, 0.3056

# Trichromacy



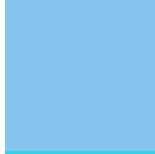
## Original Color

53.6430, 0.2200, 0.2978



## Protanomaly

51.0301, 0.2518, 0.2926



## Deuteranomaly

51.2564, 0.2453, 0.2770



## Tritanomaly

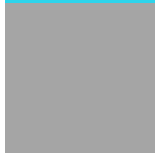
53.9069, 0.2210, 0.3030

# Monochromacy



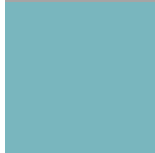
## Original Color

53.6430, 0.2200, 0.2978



## Achromatopsia

37.6262, 0.3127, 0.3290



## Achromatomaly

41.2386, 0.2608, 0.3171

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 53.6430, 0.2200, 0.2978 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(45, 212, 235)` looks like.

```
.text, #text, p{  
    color:rgb(45, 212, 235)  
}
```

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(45, 212, 235) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(45, 212, 235) }
```

## Border

The CSS property to change the border of an element to Yxy 53.6430, 0.2200, 0.2978 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(45, 212, 235) }
```

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

```
.border{ border-color:rgb(45, 212, 235) }
```

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

Here you see how a box with a 4 pixel `rgb(45, 212, 235)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(45, 212, 235); -webkit-box-  
shadow:4px 4px 4px 4px rgb(45, 212, 235);  
box-shadow:4px 4px 4px 4px rgb(45, 212,  
235) }
```



# Background

The CSS property to change the background color of an element to Yxy 53.6430, 0.2200, 0.2978 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(45, 212, 235) }
```

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

```
.background{ background-color: rgb(45, 212,  
235) }
```

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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