

# Converting Colors

$Y_{xy}(51.4395, 0.2141, 0.3122)$

Have a look what the booklet for  
Yxy(51.4395, 0.2141, 0.3122)  
contains.

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# Color

**Yxy(52.4147, 0.2204, 0.3134)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00D4DF
RGB	0, 212, 223
RGB Percent	0%, 83%, 87%
CMY	0.9995, 0.1686, 0.1256
CMYK	1.00, 0.05, 0.00, 0.13
HSL	183°, 100%, 44%
HSV	183°, 100%, 87%
XYZ	36.8609, 52.4147, 77.9698
YIQ	149.8660, -129.8830, -41.5230

# Conversions

## Conversions Part 2

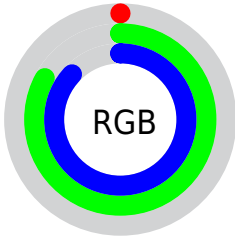
Format	Color
<b>RYB</b>	0, 109, 223
Decimal	54495
CIELab	77.53, -38.51, -17.68
CIELCh	78, 42.376, 204.652
Yxy	52.4147, 0.2204, 0.3134
Android (android.graphics.Color)	4278244575 (0xFF00D4DF)
YUV	149.8660, 36.0551, -131.4325
Hunter-Lab	72.3980, -35.8146, -13.1744

# Details

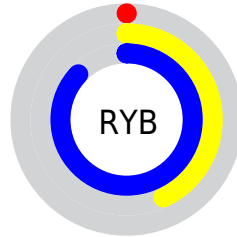
The Yxy color **52.4147, 0.2204, 0.3134** is a dark color, and the websafe version is hex **00CCCC**. The color can be described as middle washed cyan. A complement of this color would be **15.9263, 0.6372, 0.3322**, and the grayscale version is **30.3416, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.0550, 0.2414, 0.3288**, and **26.9411, 0.2191, 0.3086** is the 20% darker color. If you saturate the color by 10%, you get **52.4128, 0.2204, 0.3134**, and if you desaturate by 10%, it is **53.1421, 0.2222, 0.3150**.

# Distribution



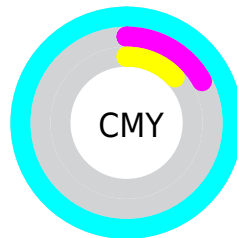
- Red (0%)
- Green (83%)
- Blue (87%)



- Red (0%)
- Yellow (43%)
- Blue (87%)



- Cyan (100%)
- Magenta (5%)
- Yellow (0%)
- Black (13%)




- Cyan (100%)
- Magenta (17%)
- Yellow (13%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 52.4147, 0.2204, 0.3134 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 52.4147, 0.2204, 0.3134 by changing the saturation by 10% instead.




 52.4147, 0.2204,  
0.3134


 52.4147, 0.2204,  
0.3134

396.0355, 0.2640,  
0.3226

 37.3357, 0.2104,  
0.3108


 93.7425, 0.2356,  
0.3170


 25.4675, 0.1980,  
0.3072


 120.7602, 0.2415,  
0.3183


 16.4257, 0.1823,  
0.3022


 152.5262, 0.2466,  
0.3193

 9.8259, 0.1620,  
0.2949

 189.4250, 0.2510,  
0.3202

 5.2837, 0.1351,  
0.2832

 231.8409, 0.2548,  
0.3209

 2.4147, 0.0987,  
0.2632

280.1584, 0.2582,

 0.8334, 0.0000,

0.3216

0.2366

334.7618, 0.2613,  
0.3221

■ 0.0000, 0.0000,  
0.0000

■ 52.4147, 0.2204,  
0.3134

■ 52.4147, 0.2204,  
0.3134

■ 52.4128, 0.2204,  
0.3134

■ 53.1421, 0.2222,  
0.3150

■ 54.0728, 0.2254,  
0.3167

■ 55.2735, 0.2304,  
0.3183

■ 56.7811, 0.2374,  
0.3200

■ 58.6269, 0.2463,  
0.3217

■ 60.8381, 0.2570,  
0.3233

■ 63.4392, 0.2692,  
0.3248

■ 66.4526, 0.2828,  
0.3263

■ 69.8990, 0.2975,  
0.3277

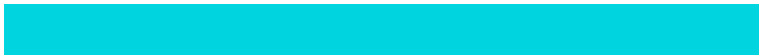
# Harmonies

## Analogous

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



52.4147, 0.2533, 0.3713



52.4147, 0.2204, 0.3134



52.4147, 0.2107, 0.2676

# Triad

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



52.4147, 0.2204, 0.3134



52.4147, 0.3134, 0.2576



52.4147, 0.4049, 0.4137

# Complementary

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



52.4147, 0.2204, 0.3134



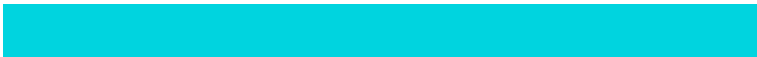
15.9263, 0.6372, 0.3322

# 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.



52.4147, 0.4261, 0.3756



52.4147, 0.2204, 0.3134



52.4147, 0.3711, 0.2897

# Square

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



52.4147, 0.2204, 0.3134



52.4147, 0.2604, 0.2409



52.4147, 0.4140, 0.3313



52.4147, 0.3595, 0.4327



# Rectangle

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



52.4147, 0.2204, 0.3134



52.4147, 0.2174, 0.2489



52.4147, 0.4140, 0.3313



52.4147, 0.4153, 0.4024

# Sweetspot

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



52.4166, 0.2204, 0.3134



85.8843, 0.2689, 0.3248



52.7810, 0.2995, 0.5983



18.0494, 0.2635, 0.3241



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.



52.4166, 0.2204, 0.3134



70.9888, 0.2204, 0.3133



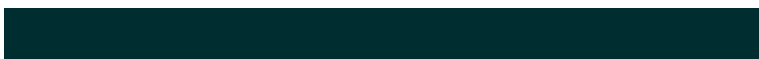
15.2526, 0.1736, 0.1448



15.4506, 0.2982, 0.3278



30.8750, 0.2205, 0.3136



2.1762, 0.2212, 0.3161



# Inverse Universe

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



20.4409, 0.3338, 0.1613



27.6975, 0.3339, 0.1613



28.8735, 0.5325, 0.4153



13.9234, 0.3145, 0.3070



12.0249, 0.3336, 0.1611

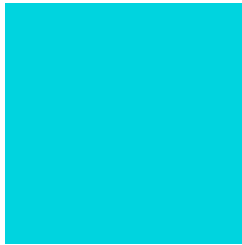


0.8371, 0.3315, 0.1600



# Previews

## White Background



This preview shows how the Yxy color 52.4147, 0.2204, 0.3134 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

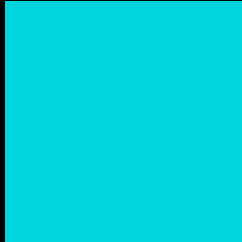
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 52.4147, 0.2204, 0.3134 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

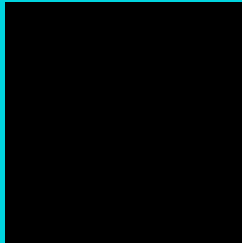
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 52.4147, 0.2204, 0.3134**

## **Background**



This preview shows how black text looks on a background with the Yxy color 52.4147, 0.2204, 0.3134.



This preview shows how white text looks on a background with the Yxy color 52.4147, 0.2204, 0.3134.

# 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

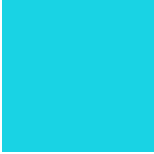
52.4147, 0.2204, 0.3134

### Protanopia

51.6406, 0.2978, 0.3057

### Deuteranopia

51.5938, 0.2839, 0.2780



## Tritanopia

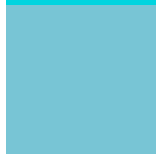
52.3966, 0.2197, 0.3053

# Trichromacy



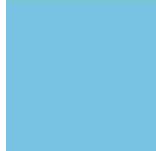
## Original Color

52.4147, 0.2204, 0.3134



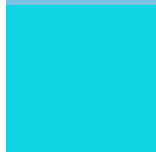
## Protanomaly

48.7297, 0.2503, 0.3070



## Deuteranomaly

48.5693, 0.2425, 0.2864



## Tritanomaly

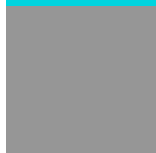
52.1897, 0.2197, 0.3079

# Monochromacy



## Original Color

52.4147, 0.2204, 0.3134



## Achromatopsia

30.4987, 0.3127, 0.3290



## Achromatomaly

35.4944, 0.2507, 0.3224

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 52.4147, 0.2204, 0.3134 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(0, 212, 223)` looks like.

```
.text, #text, p{  
    color:rgb(0, 212, 223)  
}
```

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(0, 212, 223) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 212, 223) }
```

## Border

The CSS property to change the border of an element to Yxy 52.4147, 0.2204, 0.3134 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(0, 212, 223) }
```

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

```
.border{ border-color:rgb(0, 212, 223) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 212, 223)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 212, 223); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 212, 223);  
box-shadow:4px 4px 4px 4px rgb(0, 212,  
223) }
```



# Background

The CSS property to change the background color of an element to Yxy 52.4147, 0.2204, 0.3134 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 212, 223) }
```

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

```
.background{ background-color: rgb(0, 212,  
223) }
```

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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