

# Converting Colors

$Y_{xy}(49.6285, 0.1819, 0.3233)$

Have a look what the booklet for  
Yxy(49.6285, 0.1819, 0.3233)  
contains.

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# Color

**Yxy(54.7930, 0.2235, 0.3246)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00D9DC
RGB	0, 217, 220
RGB Percent	0%, 85%, 86%
CMY	1.0000, 0.1490, 0.1373
CMYK	1.00, 0.01, 0.00, 0.14
HSL	181°, 100%, 43%
HSV	181°, 100%, 86%
XYZ	37.7272, 54.7930, 76.2814
YIQ	152.4590, -130.2950, -45.0710

# Conversions

## Conversions Part 2

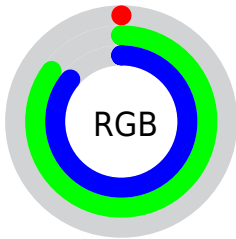
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 109, 220
Decimal	55772
CIELab	78.92, -41.69, -13.97
CIELCh	79, 43.966, 198.529
Yxy	54.7930, 0.2235, 0.3246
Android (android.graphics.Color)	4278245852 (0xFF00D9DC)
YUV	152.4590, 33.2977, -133.7065
Hunter-Lab	74.0223, -38.5624, -9.2839

# Details

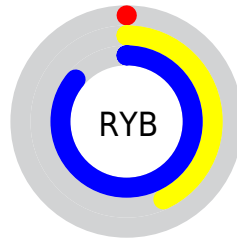
The Yxy color **54.7930, 0.2235, 0.3246** is a dark color, and the websafe version is hex **00CCCC**. The color can be described as middle washed cyan. A complement of this color would be **15.2767, 0.6393, 0.3306**, and the grayscale version is **31.5043, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.1195, 0.2417, 0.3288**, and **28.2064, 0.2226, 0.3214** is the 20% darker color. If you saturate the color by 10%, you get **54.7957, 0.2235, 0.3246**, and if you desaturate by 10%, it is **55.1195, 0.2249, 0.3250**.

# Distribution



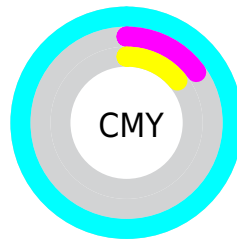
- Red (0%)
- Green (85%)
- Blue (86%)



- Red (0%)
- Yellow (43%)
- Blue (86%)



- Cyan (100%)
- Magenta (1%)
- Yellow (0%)
- Black (14%)




- Cyan (100%)
- Magenta (15%)
- Yellow (14%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 54.7930, 0.2235, 0.3246 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 54.7930, 0.2235, 0.3246 by changing the saturation by 10% instead.





 54.7930, 0.2235,  
0.3246


 54.7930, 0.2235,  
0.3246


405.1268, 0.2655,  
0.3282

 39.2360, 0.2138,  
0.3234


 97.2376, 0.2381,  
0.3262


 26.9434, 0.2019,  
0.3216


 124.8940, 0.2438,  
0.3267

 17.5307, 0.1868,  
0.3189


 157.3523, 0.2487,  
0.3271

 10.6136, 0.1673,  
0.3148

 194.9970, 0.2529,  
0.3274

 5.8076, 0.1413,  
0.3077

 238.2124, 0.2567,  
0.3276

 2.7285, 0.1058,  
0.2945

287.3829, 0.2599,

 0.9917, 0.0000,

0.3278

0.2830

342.8929, 0.2629,  
0.3280

■ 0.0000, 0.0000,  
0.0000

■ 54.7930, 0.2235,  
0.3246

■ 54.7930, 0.2235,  
0.3246

■ 54.7957, 0.2235,  
0.3246

■ 55.1195, 0.2249,  
0.3250

■ 55.6379, 0.2277,  
0.3255

■ 56.4144, 0.2323,  
0.3259

■ 57.4847, 0.2388,  
0.3264

■ 58.8791, 0.2473,  
0.3269

■ 60.6240, 0.2576,  
0.3273

■ 62.7430, 0.2695,  
0.3278

■ 65.2577, 0.2829,  
0.3282

■ 68.1882, 0.2974,  
0.3286

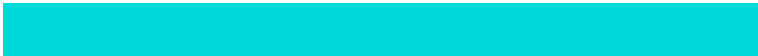
# Harmonies

## Analogous

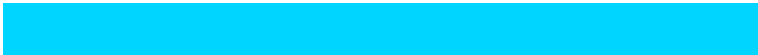
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



54.7930, 0.2614, 0.3840



54.7930, 0.2235, 0.3246



54.7930, 0.2087, 0.2740

# Triad

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



54.7930, 0.2235, 0.3246



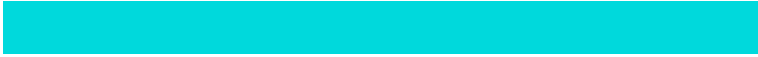
54.7930, 0.3014, 0.2513



54.7930, 0.4137, 0.4085

# Complementary

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



54.7930, 0.2235, 0.3246



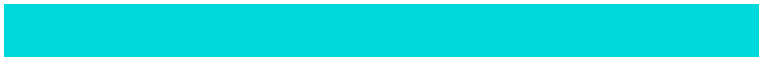
15.2767, 0.6393, 0.3306

# 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.



54.7930, 0.4290, 0.3672



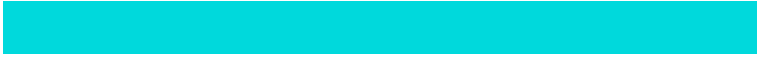
54.7930, 0.2235, 0.3246



54.7930, 0.3609, 0.2812

# Square

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



54.7930, 0.2235, 0.3246



54.7930, 0.2502, 0.2380



54.7930, 0.4096, 0.3221



54.7930, 0.3712, 0.4334



# Rectangle

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



54.7930, 0.2235, 0.3246



54.7930, 0.2123, 0.2519



54.7930, 0.4096, 0.3221



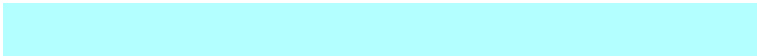
54.7930, 0.4224, 0.3958

# Sweetspot

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



54.7957, 0.2235, 0.3246



87.6069, 0.2692, 0.3278



51.1748, 0.3000, 0.6000



18.4691, 0.2640, 0.3276



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.



54.7957, 0.2235, 0.3246



76.5627, 0.2235, 0.3246



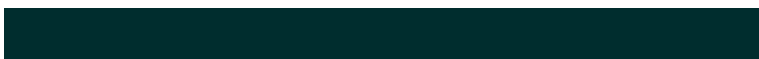
16.3156, 0.1766, 0.1559



14.7978, 0.2982, 0.3286



32.1806, 0.2235, 0.3247



2.0947, 0.2237, 0.3254



# Inverse Universe

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



20.2223, 0.3243, 0.1560



28.2602, 0.3244, 0.1561



26.3617, 0.5424, 0.4075



13.2717, 0.3140, 0.3063



11.8724, 0.3243, 0.1560

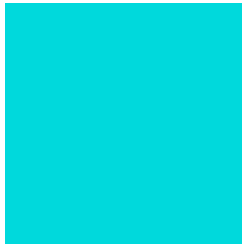


0.7701, 0.3237, 0.1557



# Previews

## White Background



This preview shows how the Yxy color 54.7930, 0.2235, 0.3246 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

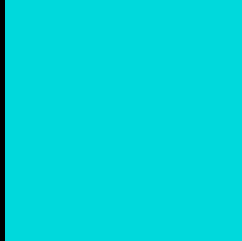
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 54.7930, 0.2235, 0.3246 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

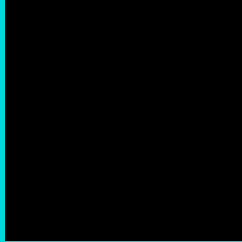
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 54.7930, 0.2235, 0.3246**

## **Background**



This preview shows how black text looks on a background with the Yxy color 54.7930, 0.2235, 0.3246.

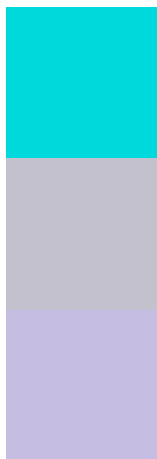


This preview shows how white text looks on a background with the Yxy color 54.7930, 0.2235, 0.3246.

# 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

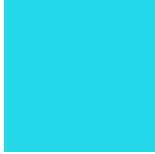
54.7930, 0.2235, 0.3246

### Protanopia

54.0170, 0.3047, 0.3145

### Deuteranopia

53.7565, 0.2921, 0.2857



## **Tritanopia**

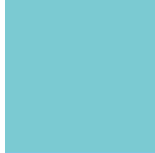
54.8591, 0.2205, 0.3045

# Trichromacy



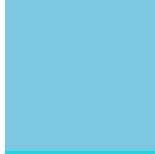
## Original Color

54.7930, 0.2235, 0.3246



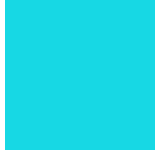
## Protanomaly

51.1052, 0.2546, 0.3180



## Deuteranomaly

50.5886, 0.2476, 0.2959



## Tritanomaly

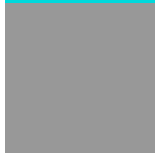
54.8953, 0.2214, 0.3123

# Monochromacy



## Original Color

54.7930, 0.2235, 0.3246



## Achromatopsia

31.3989, 0.3127, 0.3290



## Achromatomaly

36.7664, 0.2527, 0.3272

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 54.7930, 0.2235, 0.3246 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, 217, 220)` looks like.

```
.text, #text, p{  
    color:rgb(0, 217, 220)  
}
```

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, 217, 220) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 217, 220) }
```

## Border

The CSS property to change the border of an element to Yxy 54.7930, 0.2235, 0.3246 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, 217, 220) }
```

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

```
.border{ border-color:rgb(0, 217, 220) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 217, 220)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 217, 220); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 217, 220);  
box-shadow:4px 4px 4px 4px rgb(0, 217,  
220) }
```



# Background

The CSS property to change the background color of an element to Yxy 54.7930, 0.2235, 0.3246 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 217, 220) }
```

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

```
.background{ background-color: rgb(0, 217,  
220) }
```

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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