

# Converting Colors

$Y_{xy}(54.2764, 0.2142, 0.3160)$

Have a look what the booklet for  
Yxy(54.2764, 0.2142, 0.3160)  
contains.

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# Color

**Yxy(55.1167, 0.2212, 0.3164)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00D9E2
RGB	0, 217, 226
RGB Percent	0%, 85%, 89%
CMY	1.0000, 0.1490, 0.1138
CMYK	1.00, 0.04, 0.00, 0.11
HSL	182°, 100%, 44%
HSV	182°, 100%, 89%
XYZ	38.5329, 55.1167, 80.5498
YIQ	153.1430, -132.2210, -43.2050

# Conversions

## Conversions Part 2

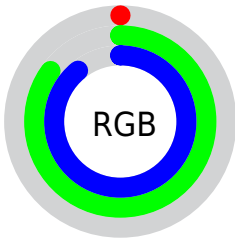
Format	Color
<b>RYB</b>	0, 111, 226
Decimal	55778
CIELab	79.11, -39.89, -16.90
CIELCh	79, 43.327, 202.962
Yxy	55.1167, 0.2212, 0.3164
Android (android.graphics.Color)	4278245858 (0xFF00D9E2)
YUV	153.1430, 35.9185, -134.3064
Hunter-Lab	74.2406, -37.2747, -12.3602

# Details

The Yxy color **55.1167, 0.2212, 0.3164** is a light color, and the websafe version is hex **00CCCC**. The color can be described as light washed cyan. A complement of this color would be **16.3617, 0.6378, 0.3317**, and the grayscale version is **31.8071, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.1847, 0.2420, 0.3288**, and **28.4300, 0.2197, 0.3108** is the 20% darker color. If you saturate the color by 10%, you get **55.1225, 0.2212, 0.3164**, and if you desaturate by 10%, it is **55.7640, 0.2229, 0.3177**.

# Distribution



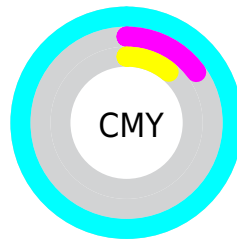
- Red (0%)
- Green (85%)
- Blue (89%)



- Red (0%)
- Yellow (44%)
- Blue (89%)



- Cyan (100%)
- Magenta (4%)
- Yellow (0%)
- Black (11%)




- Cyan (100%)
- Magenta (15%)
- Yellow (11%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 55.1167, 0.2212, 0.3164 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 55.1167, 0.2212, 0.3164 by changing the saturation by 10% instead.





 55.1167, 0.2212,  
0.3164

 55.1167, 0.2212,  
0.3164


406.3541, 0.2641,  
0.3240


 39.4952, 0.2114,  
0.3142


 97.7119, 0.2361,  
0.3194


 27.1452, 0.1993,  
0.3111


 125.4544, 0.2419,  
0.3205


 17.6823, 0.1841,  
0.3069


 158.0060, 0.2469,  
0.3214

 10.7221, 0.1646,  
0.3006

 195.7510, 0.2512,  
0.3221

 5.8803, 0.1387,  
0.2906

 239.0740, 0.2550,  
0.3227

 2.7724, 0.1037,  
0.2733

288.3592, 0.2584,

 1.0141, 0.0000,

0.3232

0.2546

343.9911, 0.2614,  
0.3237

■ 0.0000, 0.0000,  
0.0000

■ 55.1167, 0.2212,  
0.3164

■ 55.1167, 0.2212,  
0.3164

■ 55.1225, 0.2212,  
0.3164

■ 55.7640, 0.2229,  
0.3177

■ 56.6155, 0.2259,  
0.3190

■ 57.7438, 0.2309,  
0.3204

■ 59.1873, 0.2377,  
0.3217

■ 60.9782, 0.2465,  
0.3230

■ 63.1448, 0.2570,  
0.3244

■ 65.7124, 0.2692,  
0.3256

■ 68.7041, 0.2828,  
0.3268

■ 72.1412, 0.2974,  
0.3280

# Harmonies

## Analogous

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



55.1167, 0.2555, 0.3748



55.1167, 0.2212, 0.3164



55.1167, 0.2101, 0.2693

# Triad

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



55.1167, 0.2212, 0.3164



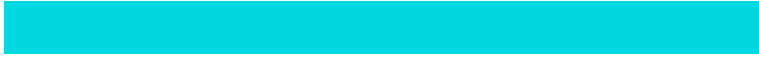
55.1167, 0.3101, 0.2559



55.1167, 0.4074, 0.4124

# Complementary

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



55.1167, 0.2212, 0.3164



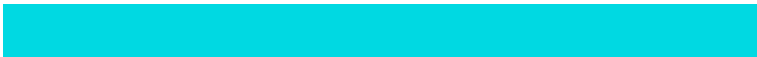
16.3617, 0.6378, 0.3317

# 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.



55.1167, 0.4270, 0.3733



55.1167, 0.2212, 0.3164



55.1167, 0.3684, 0.2874

# Square

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



55.1167, 0.2212, 0.3164



55.1167, 0.2576, 0.2401



55.1167, 0.4129, 0.3288



55.1167, 0.3627, 0.4330



# Rectangle

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



55.1167, 0.2212, 0.3164



55.1167, 0.2160, 0.2497



55.1167, 0.4129, 0.3288



55.1167, 0.4173, 0.4006

# Sweetspot

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



55.1225, 0.2212, 0.3164



86.3409, 0.2690, 0.3256



54.4029, 0.2995, 0.5984



18.1605, 0.2636, 0.3251



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.



55.1225, 0.2212, 0.3164



72.4473, 0.2212, 0.3163



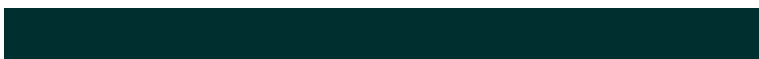
15.6877, 0.1735, 0.1446



15.4741, 0.2982, 0.3280



31.4942, 0.2213, 0.3166



2.2124, 0.2218, 0.3186



# Inverse Universe

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



21.1773, 0.3312, 0.1598



27.8447, 0.3313, 0.1599



29.7270, 0.5327, 0.4152



13.9257, 0.3144, 0.3068



12.0874, 0.3311, 0.1597

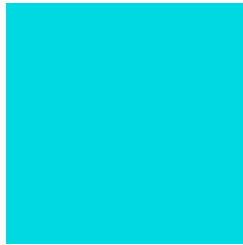


0.8408, 0.3294, 0.1588



# Previews

## White Background



This preview shows how the Yxy color 55.1167, 0.2212, 0.3164 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

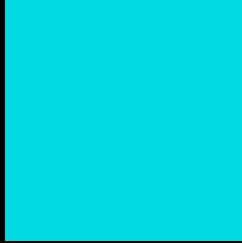
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 55.1167, 0.2212, 0.3164 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

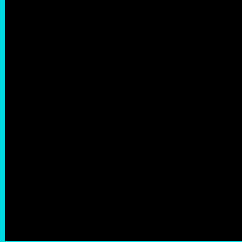
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 55.1167, 0.2212, 0.3164**

## **Background**



This preview shows how black text looks on a background with the Yxy color 55.1167, 0.2212, 0.3164.



This preview shows how white text looks on a background with the Yxy color 55.1167, 0.2212, 0.3164.

# 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

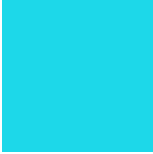
55.1167, 0.2212, 0.3164

### Protanopia

54.1805, 0.2996, 0.3073

### Deuteranopia

54.2552, 0.2865, 0.2802



## **Tritanopia**

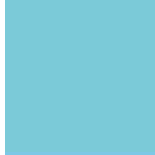
55.2561, 0.2201, 0.3058

# Trichromacy



## Original Color

55.1167, 0.2212, 0.3164



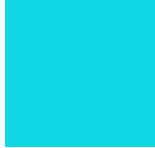
## Protanomaly

51.4099, 0.2514, 0.3101



## Deuteranomaly

51.3068, 0.2443, 0.2898



## Tritanomaly

54.9535, 0.2203, 0.3097

# Monochromacy



## Original Color

55.1167, 0.2212, 0.3164



## Achromatopsia

31.8547, 0.3127, 0.3290



## Achromatomaly

36.8873, 0.2509, 0.3225

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 55.1167, 0.2212, 0.3164 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, 226)` looks like.

```
.text, #text, p{  
    color:rgb(0, 217, 226)  
}
```

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, 226) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 217, 226) }
```

## Border

The CSS property to change the border of an element to Yxy 55.1167, 0.2212, 0.3164 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, 226) }
```

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

```
.border{ border-color:rgb(0, 217, 226) }
```

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, 226) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 217, 226); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 217, 226);  
box-shadow:4px 4px 4px 4px rgb(0, 217,  
226) }
```



# Background

The CSS property to change the background color of an element to Yxy 55.1167, 0.2212, 0.3164 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, 226) }
```

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

```
.background{ background-color: rgb(0, 217,  
226) }
```

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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