

# Converting Colors

$Y_{xy}(49.7625, 0.1431, 0.3390)$

Have a look what the booklet for  
Yxy(49.7625, 0.1431, 0.3390)  
contains.

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# Color

**Yxy(59.5600, 0.2269, 0.3369)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00E2DC
RGB	0, 226, 220
RGB Percent	0%, 89%, 86%
CMY	1.0000, 0.1137, 0.1371
CMYK	1.00, 0.00, 0.03, 0.11
HSL	178°, 100%, 44%
HSV	178°, 100%, 89%
XYZ	40.1133, 59.5600, 77.1151
YIQ	157.7420, -132.7700, -49.7780

# Conversions

## Conversions Part 2

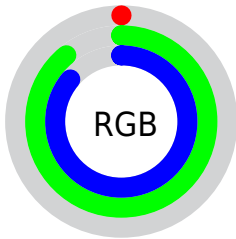
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 115, 226
Decimal	58076
CIELab	81.60, -45.64, -10.00
CIELCh	82, 46.718, 192.362
Yxy	59.5600, 0.2269, 0.3369
Android (android.graphics.Color)	4278248156 (0xFF00E2DC)
YUV	157.7420, 30.6932, -138.3397
Hunter-Lab	77.1751, -42.2776, -5.2213

# Details

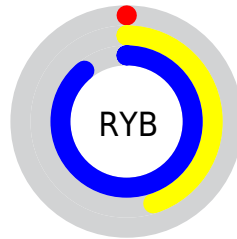
The Yxy color **59.5600, 0.2269, 0.3369** is a light color, and the websafe version is hex **00CCCC**. The color can be described as light washed cyan. A complement of this color would be **16.1828, 0.6379, 0.3288**, and the grayscale version is **33.9760, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.1847, 0.2420, 0.3288**, and **31.4661, 0.2271, 0.3377** is the 20% darker color. If you saturate the color by 10%, you get **59.5652, 0.2269, 0.3369**, and if you desaturate by 10%, it is **59.7744, 0.2279, 0.3361**.

# Distribution



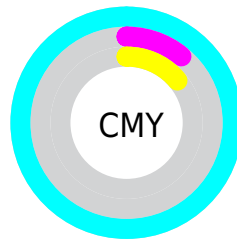
- Red (0%)
- Green (89%)
- Blue (86%)



- Red (0%)
- Yellow (45%)
- Blue (89%)



- Cyan (100%)
- Magenta (0%)
- Yellow (3%)
- Black (11%)




- Cyan (100%)
- Magenta (11%)
- Yellow (14%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 59.5600, 0.2269, 0.3369 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 59.5600, 0.2269, 0.3369 by changing the saturation by 10% instead.





 59.5600, 0.2269,  
0.3369


 59.5600, 0.2269,  
0.3369

422.9740, 0.2669,  
0.3343


 43.0641, 0.2178,  
0.3372


 104.1911, 0.2408,  
0.3362


 29.9354, 0.2065,  
0.3374


 133.0951, 0.2462,  
0.3359

 19.7896, 0.1924,  
0.3374


 166.9039, 0.2509,  
0.3356

 12.2422, 0.1741,  
0.3368

 206.0020, 0.2549,  
0.3353

 6.9088, 0.1497,  
0.3351

 250.7736, 0.2585,  
0.3350

 3.4051, 0.1164,  
0.3304

301.6032, 0.2616,

 1.3467, 0.0263,

0.3347

0.3324

358.8752, 0.2644,  
0.3345

■ 0.1770, 0.0000,  
0.1656

■ 0.0000, 0.0000,  
0.0000

■ 59.5600, 0.2269,  
0.3369

■ 59.5600, 0.2269,  
0.3369

■ 59.5652, 0.2269,  
0.3369

■ 59.7744, 0.2279,  
0.3361

■ 60.1912, 0.2304,  
0.3352

■ 60.8825, 0.2347,  
0.3343

■ 61.8866, 0.2408,  
0.3335

■ 63.2358, 0.2490,  
0.3326

■ 64.9583, 0.2589,  
0.3318

■ 67.0794, 0.2705,  
0.3310

■ 69.6223, 0.2836,  
0.3303

■ 72.6082, 0.2977,  
0.3296

# Harmonies

## Analogous

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



59.5600, 0.2701, 0.3975



59.5600, 0.2269, 0.3369



59.5600, 0.2067, 0.2812

# Triad

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



59.5600, 0.2269, 0.3369



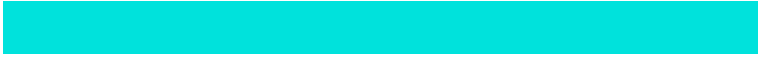
59.5600, 0.2888, 0.2447



59.5600, 0.4228, 0.4028

# Complementary

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



59.5600, 0.2269, 0.3369



16.1828, 0.6379, 0.3288

# 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.



59.5600, 0.4317, 0.3585



59.5600, 0.2269, 0.3369



59.5600, 0.3500, 0.2723

# Square

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



59.5600, 0.2269, 0.3369



59.5600, 0.2396, 0.2349



59.5600, 0.4045, 0.3124

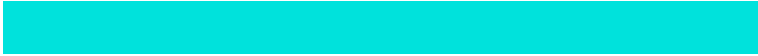


59.5600, 0.3835, 0.4337



# Rectangle

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



59.5600, 0.2269, 0.3369



59.5600, 0.2070, 0.2553



59.5600, 0.4045, 0.3124



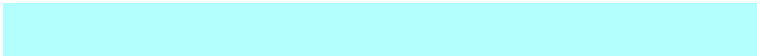
59.5600, 0.4297, 0.3888

# Sweetspot

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



59.5652, 0.2269, 0.3369



88.1347, 0.2703, 0.3311



54.4447, 0.3006, 0.5996



18.5980, 0.2652, 0.3314



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.



59.5652, 0.2269, 0.3369



78.3136, 0.2269, 0.3370



19.0537, 0.1797, 0.1670



15.5658, 0.2986, 0.3296



33.9828, 0.2269, 0.3368



2.3575, 0.2265, 0.3354



# Inverse Universe

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



16.1828, 0.6379, 0.3288



21.2748, 0.6382, 0.3289



26.3688, 0.5525, 0.3995



13.7064, 0.3288, 0.3284



9.2345, 0.6371, 0.3283

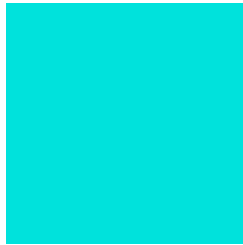


0.6422, 0.6285, 0.3236



# Previews

## White Background



This preview shows how the Yxy color 59.5600, 0.2269, 0.3369 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

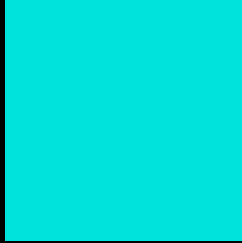
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 59.5600, 0.2269, 0.3369 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

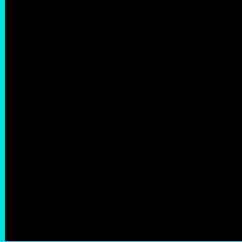
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 59.5600, 0.2269, 0.3369**

## **Background**



This preview shows how black text looks on a background with the Yxy color 59.5600, 0.2269, 0.3369.

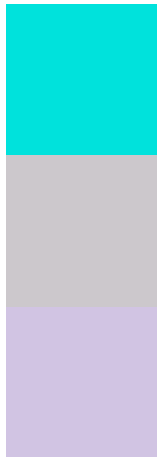


This preview shows how white text looks on a background with the Yxy color 59.5600, 0.2269, 0.3369.

# 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

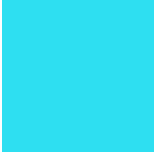
59.5600, 0.2269, 0.3369

### Protanopia

58.5056, 0.3129, 0.3243

### Deuteranopia

58.5812, 0.3005, 0.2939



## **Tritanopia**

59.7071, 0.2219, 0.3053

# Trichromacy



## Original Color

59.5600, 0.2269, 0.3369



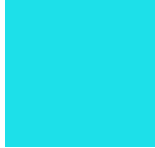
## Protanomaly

54.9999, 0.2599, 0.3275



## Deuteranomaly

54.9940, 0.2536, 0.3069



## Tritanomaly

59.4557, 0.2231, 0.3168

# Monochromacy



## Original Color

59.5600, 0.2269, 0.3369



## Achromatopsia

34.1914, 0.3127, 0.3290



## Achromatomaly

39.9699, 0.2544, 0.3319

# CSS Examples

## Text

The CSS property to change the color of the text to  $Yxy$  59.5600, 0.2269, 0.3369 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, 226, 220)` looks like.

```
.text, #text, p{  
    color:rgb(0, 226, 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, 226, 220) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 226, 220) }
```

## Border

The CSS property to change the border of an element to Yxy 59.5600, 0.2269, 0.3369 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, 226, 220) }
```

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

```
.border{ border-color:rgb(0, 226, 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, 226, 220)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 226, 220); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 226, 220);  
box-shadow:4px 4px 4px 4px rgb(0, 226,  
220) }
```



# Background

The CSS property to change the background color of an element to Yxy 59.5600, 0.2269, 0.3369 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 226, 220) }
```

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

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