

# Converting Colors

$Y_{xy}(56.6719, 0.2158, 0.2970)$

Have a look what the booklet for  
Yxy(56.6719, 0.2158, 0.2970)  
contains.

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# Color

**Yxy(56.5536, 0.2158, 0.2970)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00DAF2
RGB	0, 218, 242
RGB Percent	0%, 85%, 95%
CMY	1.0000, 0.1450, 0.0509
CMYK	1.00, 0.10, 0.00, 0.05
HSL	186°, 100%, 47%
HSV	186°, 100%, 95%
XYZ	41.0918, 56.5536, 92.7708
YIQ	155.5540, -137.6320, -38.7520

# Conversions

## Conversions Part 2

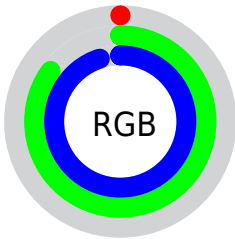
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 115, 242
Decimal	56050
CIELab	79.93, -35.41, -24.21
CIELCh	80, 42.895, 214.362
Yxy	56.5536, 0.2158, 0.2970
Android (android.graphics.Color)	4278246130 (0xFF00DAF2)
YUV	155.5540, 42.6179, -136.4209
Hunter-Lab	75.2021, -34.0681, -20.4998

# Details

The Yxy color **56.5536, 0.2158, 0.2970** is a light color, and the websafe version is hex **33CCCC**. The color can be described as light saturated cyan. A complement of this color would be **19.5348, 0.6337, 0.3350**, and the grayscale version is **32.8942, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.3174, 0.2426, 0.3288**, and **29.7396, 0.2138, 0.2895** is the 20% darker color. If you saturate the color by 10%, you get **56.5615, 0.2158, 0.2970**, and if you desaturate by 10%, it is **58.0126, 0.2181, 0.3004**.

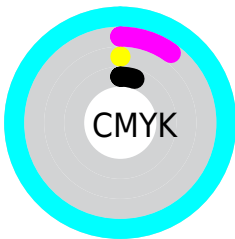
# Distribution



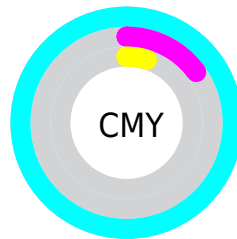
- Red (0%)
- Green (85%)
- Blue (95%)



- Red (0%)
- Yellow (45%)
- Blue (95%)



- Cyan (100%)
- Magenta (10%)
- Yellow (0%)
- Black (5%)




- Cyan (100%)
- Magenta (15%)
- Yellow (5%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 56.5536, 0.2158, 0.2970 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 56.5536, 0.2158, 0.2970 by changing the saturation by 10% instead.





 56.5536, 0.2158,  
0.2970

 56.5536, 0.2158,  
0.2970


411.7745, 0.2606,  
0.3140

 40.6470, 0.2057,  
0.2926


 99.8135, 0.2313,  
0.3033


 28.0433, 0.1934,  
0.2869


 127.9356, 0.2373,  
0.3057


 18.3583, 0.1781,  
0.2793


 160.8983, 0.2425,  
0.3076

 11.2075, 0.1585,  
0.2687

 199.0860, 0.2471,  
0.3093

 6.2066, 0.1332,  
0.2531

 242.8830, 0.2511,  
0.3107

 2.9711, 0.0999,  
0.2291

292.6739, 0.2546,

 1.1167, 0.0313,

0.3120

0.1942

348.8429, 0.2578,  
0.3131

■ 0.0000, 0.0000,  
0.0000

■ 56.5536, 0.2158,  
0.2970

■ 56.5536, 0.2158,  
0.2970

■ 56.5615, 0.2158,  
0.2970

■ 58.0126, 0.2181,  
0.3004

■ 59.7267, 0.2218,  
0.3038

■ 61.7803, 0.2275,  
0.3073

■ 64.2190, 0.2351,  
0.3108

■ 67.0811, 0.2446,  
0.3142

■ 70.4002, 0.2558,  
0.3175

■ 74.2063, 0.2685,  
0.3207

■ 78.5268, 0.2824,  
0.3237

■ 83.3870, 0.2973,  
0.3264

# Harmonies

## Analogous

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



56.5536, 0.2412, 0.3522



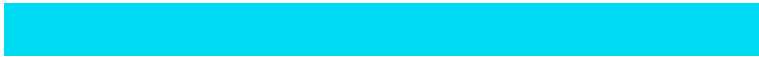
56.5536, 0.2158, 0.2970



56.5536, 0.2138, 0.2582

# Triad

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



56.5536, 0.2158, 0.2970



56.5536, 0.3322, 0.2673



56.5536, 0.3913, 0.4216

# Complementary

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



56.5536, 0.2158, 0.2970



19.5348, 0.6337, 0.3350

# 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.



56.5536, 0.4212, 0.3885



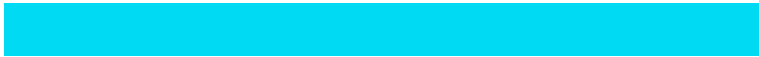
56.5536, 0.2158, 0.2970



56.5536, 0.3867, 0.3028

# Square

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



56.5536, 0.2158, 0.2970



56.5536, 0.2766, 0.2453



56.5536, 0.4203, 0.3456

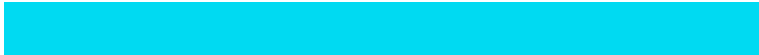


56.5536, 0.3416, 0.4307

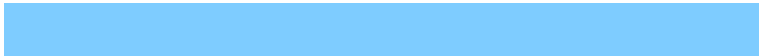


# Rectangle

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



56.5536, 0.2158, 0.2970



56.5536, 0.2254, 0.2445



56.5536, 0.4203, 0.3456



56.5536, 0.4041, 0.4125

# Sweetspot

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



56.5615, 0.2158, 0.2970



83.5174, 0.2684, 0.3206



63.5684, 0.2988, 0.5957



17.4740, 0.2629, 0.3193



0.0000, 0.0000, 0.0000

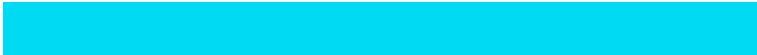


21.4041, 0.3127, 0.3290



# Same Dimension

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



56.5615, 0.2158, 0.2970



63.6486, 0.2158, 0.2969



15.6889, 0.1690, 0.1283



17.6452, 0.2981, 0.3266



30.4938, 0.2160, 0.2976



2.6137, 0.2172, 0.3021



# Inverse Universe

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



23.9437, 0.3481, 0.1691



26.9565, 0.3481, 0.1692



37.9838, 0.5185, 0.4265



16.0028, 0.3153, 0.3080



12.8717, 0.3476, 0.1688

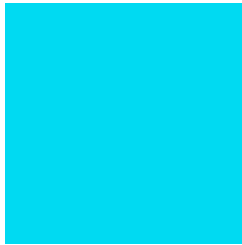


1.0786, 0.3436, 0.1667



# Previews

## White Background



This preview shows how the Yxy color 56.5536, 0.2158, 0.2970 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

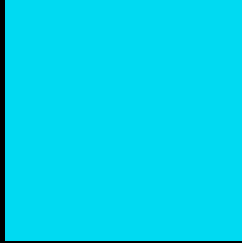
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 56.5536, 0.2158, 0.2970 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

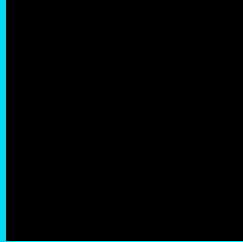
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 56.5536, 0.2158, 0.2970**

## **Background**



This preview shows how black text looks on a background with the Yxy color 56.5536, 0.2158, 0.2970.



This preview shows how white text looks on a background with the Yxy color 56.5536, 0.2158, 0.2970.

# 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

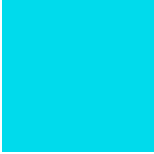
56.5536, 0.2158, 0.2970

### Protanopia

55.6526, 0.2872, 0.2913

### Deuteranopia

55.7361, 0.2723, 0.2663



## Tritanopia

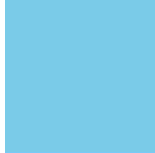
56.7192, 0.2183, 0.3060

# Trichromacy



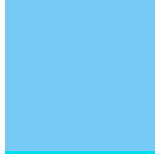
## Original Color

56.5536, 0.2158, 0.2970



## Protanomaly

52.6756, 0.2430, 0.2913



## Deuteranomaly

52.8880, 0.2353, 0.2735



## Tritanomaly

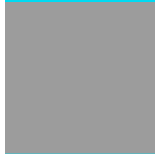
56.8361, 0.2176, 0.3034

# Monochromacy



## Original Color

56.5536, 0.2158, 0.2970



## Achromatopsia

33.2452, 0.3127, 0.3290



## Achromatomaly

38.4807, 0.2487, 0.3165

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 56.5536, 0.2158, 0.2970 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, 218, 242)` looks like.

```
.text, #text, p{  
    color:rgb(0, 218, 242)  
}
```

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, 218, 242) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 218, 242) }
```

## Border

The CSS property to change the border of an element to Yxy 56.5536, 0.2158, 0.2970 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, 218, 242) }
```

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

```
.border{ border-color:rgb(0, 218, 242) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 218, 242)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 218, 242); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 218, 242);  
box-shadow:4px 4px 4px 4px rgb(0, 218,  
242) }
```



# Background

The CSS property to change the background color of an element to Yxy 56.5536, 0.2158, 0.2970 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 218, 242) }
```

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

```
.background{ background-color: rgb(0, 218,  
242) }
```

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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