

# Converting Colors

$Y_{xy}(56.6906, 0.2303, 0.3491)$

Have a look what the booklet for  
Yxy(56.6906, 0.2303, 0.3491)  
contains.

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# Color

**Yxy(56.7475, 0.2306, 0.3500)**

# Conversions

## Conversions Part 1

Format	Color
Hex	01DECF
RGB	1, 222, 207
RGB Percent	0%, 87%, 81%
CMY	0.9969, 0.1294, 0.1883
CMYK	1.00, 0.00, 0.07, 0.13
HSL	176°, 99%, 44%
HSV	176°, 100%, 87%
XYZ	37.3885, 56.7475, 67.9997
YIQ	154.2110, -126.9010, -51.5170

# Conversions

## Conversions Part 2

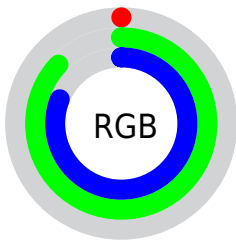
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	1, 115, 222
Decimal	122575
CIE <sub>Lab</sub>	80.04, -47.60, -5.37
CIE <sub>LCh</sub>	80, 47.900, 186.440
Yxy	56.7475, 0.2306, 0.3500
Android (android.graphics.Color)	4278312655 (0xFF01DECF)
YUV	154.2110, 26.0250, -134.3660
Hunter-Lab	75.3309, -43.2354, -0.7882

# Details

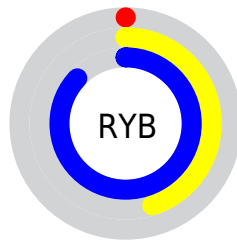
The Yxy color **56.7475, 0.2306, 0.3500** is a dark color, and the websafe version is hex **00CCCC**. The color can be described as middle washed cyan. A complement of this color would be **15.5832, 0.6336, 0.3267**, and the grayscale version is **32.3074, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.0550, 0.2414, 0.3288**, and **29.5723, 0.2314, 0.3530** is the 20% darker color. If you saturate the color by 10%, you get **56.7418, 0.2306, 0.3501**, and if you desaturate by 10%, it is **57.0007, 0.2313, 0.3478**.

# Distribution



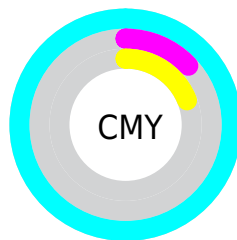
- Red (0%)
- Green (87%)
- Blue (81%)



- Red (0%)
- Yellow (45%)
- Blue (87%)



- Cyan (100%)
- Magenta (0%)
- Yellow (7%)
- Black (13%)



- Cyan (100%)
- Magenta (13%)
- Yellow (19%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 56.7475, 0.2306, 0.3500 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 56.7475, 0.2306, 0.3500 by changing the saturation by 10% instead.





 56.7475, 0.2306,  
0.3500

 56.7475, 0.2306,  
0.3500

412.5025, 0.2695,  
0.3407

 40.8026, 0.2216,  
0.3520


 100.0967, 0.2442,  
0.3469

 28.1648, 0.2104,  
0.3544


 128.2697, 0.2495,  
0.3456


 18.4500, 0.1961,  
0.3572


 161.2875, 0.2540,  
0.3445

 11.2735, 0.1774,  
0.3607


 199.5345, 0.2579,  
0.3436

 6.2511, 0.1522,  
0.3646

 243.3951, 0.2614,  
0.3427

 2.9984, 0.1169,  
0.3685

293.2537, 0.2644,

 1.1309, 0.0000,

0.3419

349.4947, 0.2671,  
0.3413

0.3955

0.0041, 0.0000,  
0.0108

0.0000, 0.0000,  
0.0000

56.7475, 0.2306,  
0.3500

56.7475, 0.2306,  
0.3500

56.7418, 0.2306,  
0.3501

57.0007, 0.2313,  
0.3478

57.4557, 0.2336,  
0.3455

58.1762, 0.2376,  
0.3432

59.1985, 0.2436,  
0.3409

■ 60.5533, 0.2515,  
0.3386

■ 62.2676, 0.2612,  
0.3365

■ 64.3653, 0.2725,  
0.3344

■ 66.8687, 0.2852,  
0.3324

■ 69.7981, 0.2988,  
0.3306

# Harmonies

## Analogous

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



56.7475, 0.2792, 0.4112



56.7475, 0.2306, 0.3500



56.7475, 0.2048, 0.2889

# Triad

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



56.7475, 0.2306, 0.3500



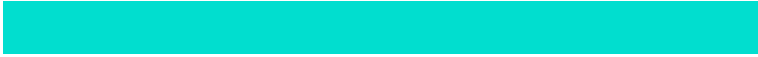
56.7475, 0.2763, 0.2381



56.7475, 0.4319, 0.3967

# Complementary

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



56.7475, 0.2306, 0.3500



15.5832, 0.6336, 0.3267

# 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.



56.7475, 0.4341, 0.3497



56.7475, 0.2306, 0.3500



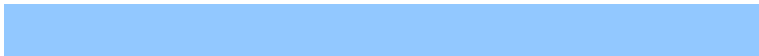
56.7475, 0.3386, 0.2633

# Square

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



56.7475, 0.2306, 0.3500



56.7475, 0.2291, 0.2319



56.7475, 0.3988, 0.3027



56.7475, 0.3960, 0.4333

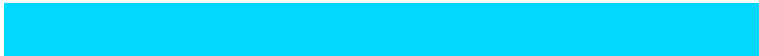


# Rectangle

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



56.7475, 0.2306, 0.3500



56.7475, 0.2019, 0.2590



56.7475, 0.3988, 0.3027



56.7475, 0.4368, 0.3816

# Sweetspot

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



56.7496, 0.2306, 0.3500



87.9342, 0.2718, 0.3345



52.3831, 0.3016, 0.5985



18.5491, 0.2669, 0.3354



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.



56.7496, 0.2306, 0.3500



77.6747, 0.2306, 0.3503



21.1991, 0.1849, 0.1853



15.5555, 0.2991, 0.3306



33.7116, 0.2305, 0.3497



2.3416, 0.2295, 0.3462



# Inverse Universe

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



15.5832, 0.6336, 0.3267



21.3015, 0.6349, 0.3271



23.3532, 0.5661, 0.3884



13.7155, 0.3281, 0.3274



9.2507, 0.6325, 0.3258

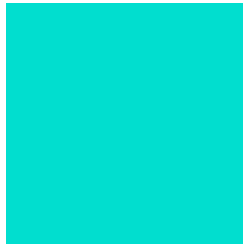


0.6466, 0.6115, 0.3142



# Previews

## White Background



This preview shows how the Yxy color 56.7475, 0.2306, 0.3500 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

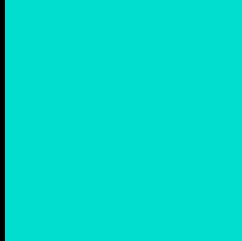
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 56.7475, 0.2306, 0.3500 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

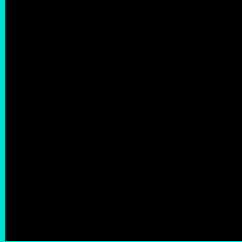
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

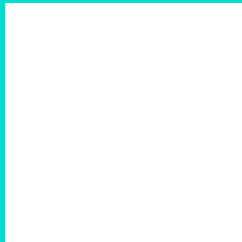
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 56.7475, 0.2306, 0.3500**

## **Background**



This preview shows how black text looks on a background with the Yxy color 56.7475, 0.2306, 0.3500.

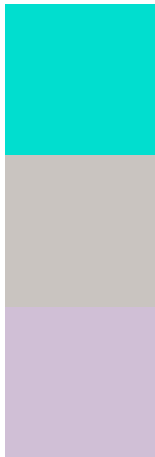


This preview shows how white text looks on a background with the Yxy color 56.7475, 0.2306, 0.3500.

# 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

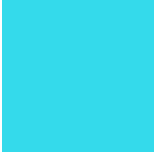
56.7540, 0.2306, 0.3500

### Protanopia

55.7031, 0.3197, 0.3338

### Deuteranopia

55.5265, 0.3092, 0.3023



## **Tritanopia**

56.8710, 0.2233, 0.3062

# Trichromacy



## Original Color

56.7540, 0.2306, 0.3500



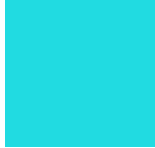
## Protanomaly

52.2831, 0.2653, 0.3398



## Deuteranomaly

51.9308, 0.2596, 0.3169



## Tritanomaly

56.4226, 0.2247, 0.3206

# Monochromacy



## Original Color

56.7540, 0.2306, 0.3500



## Achromatopsia

32.3143, 0.3127, 0.3290



## Achromatomaly

37.8540, 0.2565, 0.3383

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 56.7475, 0.2306, 0.3500 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(1, 222, 207)` looks like.

```
.text, #text, p{  
    color:rgb(1, 222, 207)  
}
```

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(1, 222, 207) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(1, 222, 207) }
```

## Border

The CSS property to change the border of an element to Yxy 56.7475, 0.2306, 0.3500 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(1, 222, 207) }
```

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

```
.border{ border-color:rgb(1, 222, 207) }
```

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

Here you see how a box with a 4 pixel `rgb(1, 222, 207)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(1, 222, 207); -webkit-box-  
shadow:4px 4px 4px 4px rgb(1, 222, 207);  
box-shadow:4px 4px 4px 4px rgb(1, 222,  
207) }
```



# Background

The CSS property to change the background color of an element to Yxy 56.7475, 0.2306, 0.3500 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(1, 222, 207) }
```

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

```
.background{ background-color: rgb(1, 222,  
207) }
```

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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