

# Converting Colors

$Y_{xy}(56.5468, 0.2230, 0.3226)$

Have a look what the booklet for  
Yxy(56.5468, 0.2230, 0.3226)  
contains.

<b>Yxy(56.5747, 0.2232, 0.3233)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

# Color

**Yxy(56.5747, 0.2232, 0.3233)**

# Conversions

## Conversions Part 1

Format	Color
Hex	01DCE0
RGB	1, 220, 224
RGB Percent	0%, 86%, 88%
CMY	0.9953, 0.1372, 0.1217
CMYK	0.99, 0.02, 0.00, 0.12
HSL	181°, 99%, 44%
HSV	181°, 99%, 88%
XYZ	39.0581, 56.5747, 79.3586
YIQ	154.9750, -131.8080, -45.1840

# Conversions

## Conversions Part 2

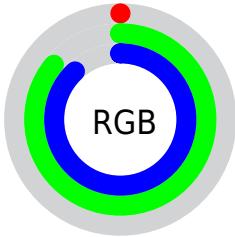
Format	Color
<a href="#">RYB</a>	1, 111, 224
Decimal	122080
CIELab	79.94, -41.80, -14.57
CIELCh	80, 44.271, 199.220
Yxy	56.5747, 0.2232, 0.3233
Android (android.graphics.Color)	4278312160 (0xFF01DCE0)
YUV	154.9750, 34.0293, -135.0361
Hunter-Lab	75.2162, -38.9372, -9.9040

# Details

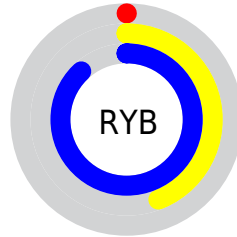
The Yxy color **56.5747, 0.2232, 0.3233** is a light color, and the websafe version is hex **00CCCC**. The color can be described as light washed cyan. A complement of this color would be **15.9571, 0.6383, 0.3308**, and the grayscale version is **32.6860, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.1847, 0.2420, 0.3288**, and **29.4155, 0.2222, 0.3198** is the 20% darker color. If you saturate the color by 10%, you get **56.5577, 0.2231, 0.3233**, and if you desaturate by 10%, it is **56.9678, 0.2247, 0.3239**.

# Distribution



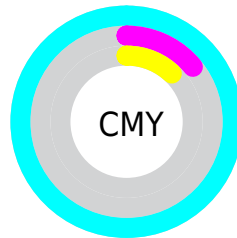
- Red (0%)
- Green (86%)
- Blue (88%)



- Red (0%)
- Yellow (44%)
- Blue (88%)



- Cyan (99%)
- Magenta (2%)
- Yellow (0%)
- Black (12%)



- Cyan (100%)
- Magenta (14%)
- Yellow (12%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 56.5747, 0.2232, 0.3233 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 56.5747, 0.2232, 0.3233 by changing the saturation by 10% instead.




 56.5747, 0.2232,  
0.3233


 56.5747, 0.2232,  
0.3233

411.8537, 0.2651,  
0.3275

 40.6639, 0.2136,  
0.3219


 99.8444, 0.2377,  
0.3251


 28.0565, 0.2019,  
0.3200


 127.9720, 0.2434,  
0.3257


 18.3683, 0.1870,  
0.3171


 160.9407, 0.2483,  
0.3262

 11.2147, 0.1679,  
0.3127

 199.1348, 0.2525,  
0.3265

 6.2114, 0.1425,  
0.3055

 242.9388, 0.2562,  
0.3268

 2.9741, 0.1081,  
0.2922

292.7370, 0.2595,

 1.1182, 0.0064,

0.3271

0.2809

348.9138, 0.2624,  
0.3273

■ 0.0000, 0.0000,  
0.0000

■ 56.5747, 0.2232,  
0.3233

■ 56.5747, 0.2232,  
0.3233

■ 56.5577, 0.2231,  
0.3233

■ 56.9678, 0.2247,  
0.3239

■ 57.5693, 0.2276,  
0.3245

■ 58.4422, 0.2323,  
0.3251

■ 59.6236, 0.2390,  
0.3257

■ 61.1448, 0.2476,  
0.3263

■ 63.0331, 0.2581,  
0.3269

■ 65.3134, 0.2701,  
0.3275

■ 68.0080, 0.2836,  
0.3280

■ 71.1377, 0.2982,  
0.3285

# Harmonies

## Analogous

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



56.5747, 0.2605, 0.3825



56.5747, 0.2232, 0.3233



56.5747, 0.2090, 0.2733

# Triad

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



56.5747, 0.2232, 0.3233



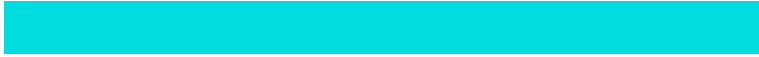
56.5747, 0.3028, 0.2521



56.5747, 0.4126, 0.4090

# Complementary

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



56.5747, 0.2232, 0.3233



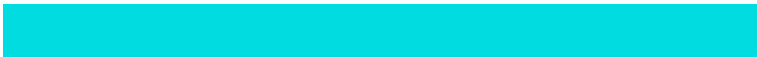
15.9571, 0.6383, 0.3308

# 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.



56.5747, 0.4286, 0.3682



56.5747, 0.2232, 0.3233



56.5747, 0.3621, 0.2822

# Square

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



56.5747, 0.2232, 0.3233



56.5747, 0.2514, 0.2384



56.5747, 0.4100, 0.3232



56.5747, 0.3698, 0.4333



# Rectangle

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



56.5747, 0.2232, 0.3233



56.5747, 0.2129, 0.2516



56.5747, 0.4100, 0.3232



56.5747, 0.4215, 0.3965

# Sweetspot

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



56.5768, 0.2232, 0.3233



87.3989, 0.2692, 0.3274



53.3127, 0.2998, 0.5988



18.4184, 0.2639, 0.3272



0.0000, 0.0000, 0.0000

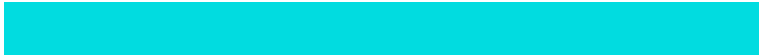


21.4041, 0.3127, 0.3290



# Same Dimension

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



56.5768, 0.2232, 0.3233



75.8794, 0.2231, 0.3232



16.2989, 0.1754, 0.1511



15.5283, 0.2982, 0.3285



32.9506, 0.2232, 0.3234



2.2975, 0.2234, 0.3242



# Inverse Universe

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



21.0360, 0.3254, 0.1568



28.1912, 0.3255, 0.1567



28.4054, 0.5366, 0.4117



13.9312, 0.3141, 0.3063



12.2344, 0.3254, 0.1566

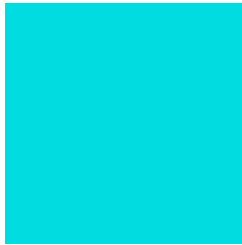


0.8494, 0.3246, 0.1562



# Previews

## White Background



This preview shows how the Yxy color 56.5747, 0.2232, 0.3233 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

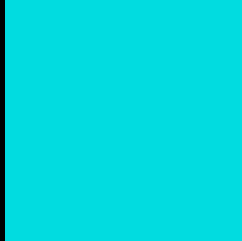
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 56.5747, 0.2232, 0.3233 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

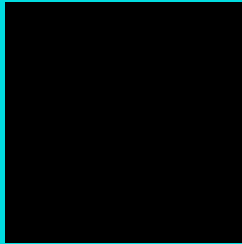
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 56.5747, 0.2232, 0.3233**

## **Background**



This preview shows how black text looks on a background with the Yxy color 56.5747, 0.2232, 0.3233.



This preview shows how white text looks on a background with the Yxy color 56.5747, 0.2232, 0.3233.

# 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

56.5747, 0.2232, 0.3233

### Protanopia

55.5040, 0.3041, 0.3123

### Deuteranopia

55.5546, 0.2909, 0.2851



## **Tritanopia**

56.5740, 0.2205, 0.3048

# Trichromacy



## Original Color

56.5747, 0.2232, 0.3233



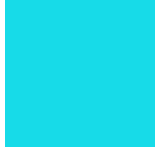
## Protanomaly

52.4764, 0.2545, 0.3155



## Deuteranomaly

52.3545, 0.2473, 0.2951



## Tritanomaly

56.6714, 0.2211, 0.3112

# Monochromacy



## Original Color

56.5747, 0.2232, 0.3233



## Achromatopsia

32.7778, 0.3127, 0.3290



## Achromatomaly

38.1881, 0.2528, 0.3273

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 56.5747, 0.2232, 0.3233 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, 220, 224)` looks like.

```
.text, #text, p{  
    color:rgb(1, 220, 224)  
}
```

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, 220, 224) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(1, 220, 224) }
```

## Border

The CSS property to change the border of an element to Yxy 56.5747, 0.2232, 0.3233 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, 220, 224) }
```

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

```
.border{ border-color:rgb(1, 220, 224) }
```

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

Here you see how a box with a 4 pixel rgb(1, 220, 224) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(1, 220, 224); -webkit-box-  
shadow:4px 4px 4px 4px rgb(1, 220, 224);  
box-shadow:4px 4px 4px 4px rgb(1, 220,  
224) }
```



# Background

The CSS property to change the background color of an element to Yxy 56.5747, 0.2232, 0.3233 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(1, 220, 224) }
```

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

```
.background{ background-color: rgb(1, 220,  
224) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor