

# Converting Colors

$Y_{xy}(64.6575, 0.2323, 0.3563)$

Have a look what the booklet for  
Yxy(64.6575, 0.2323, 0.3563)  
contains.

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# Color

**Yxy(64.8972, 0.2325, 0.3571)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00ECD7
RGB	0, 236, 215
RGB Percent	0%, 93%, 84%
CMY	1.0000, 0.0745, 0.1569
CMYK	1.00, 0.00, 0.09, 0.07
HSL	175°, 100%, 46%
HSV	175°, 100%, 93%
XYZ	42.2531, 64.8972, 74.5836
YIQ	163.0420, -133.9150, -56.5630

# Conversions

## Conversions Part 2

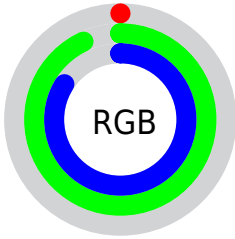
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 123, 236
Decimal	60631
CIELab	84.43, -51.29, -3.15
CIELCh	84, 51.386, 183.510
Yxy	64.8972, 0.2325, 0.3571
Android (android.graphics.Color)	4278250711 (0xFF00ECD7)
YUV	163.0420, 25.6153, -142.9878
Hunter-Lab	80.5588, -47.3545, 1.4988

# Details

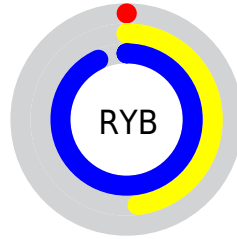
The Yxy color **64.8972, 0.2325, 0.3571** is a light color, and the websafe version is hex **00FFFF**. The color can be described as light washed cyan. A complement of this color would be **17.8893, 0.6320, 0.3255**, and the grayscale version is **36.5741, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.3174, 0.2426, 0.3288**, and **34.7783, 0.2339, 0.3622** is the 20% darker color. If you saturate the color by 10%, you get **64.9043, 0.2325, 0.3571**, and if you desaturate by 10%, it is **65.2024, 0.2330, 0.3541**.

# Distribution



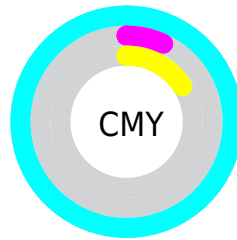
- Red (0%)
- Green (93%)
- Blue (84%)



- Red (0%)
- Yellow (48%)
- Blue (93%)



- Cyan (100%)
- Magenta (0%)
- Yellow (9%)
- Black (7%)




- Cyan (100%)
- Magenta (7%)
- Yellow (16%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 64.8972, 0.2325, 0.3571 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 64.8972, 0.2325, 0.3571 by changing the saturation by 10% instead.




 64.8972, 0.2325,  
0.3571


 64.8972, 0.2325,  
0.3571

442.4225, 0.2697,  
0.3444

 47.3777, 0.2240,  
0.3599

 111.9021, 0.2454,  
0.3528


 33.3344, 0.2136,  
0.3633


 142.1562, 0.2504,  
0.3511

 22.3827, 0.2005,  
0.3675


 177.4241, 0.2548,  
0.3496

 14.1384, 0.1835,  
0.3727

 218.0900, 0.2585,  
0.3483

 8.2170, 0.1609,  
0.3795

 264.5384, 0.2618,  
0.3471

 4.2341, 0.1296,  
0.3880

317.1537, 0.2648,

 1.8054, 0.0604,

0.3461

0.4091

376.3203, 0.2674,  
0.3452

■ 0.4905, 0.0000,  
0.3941

■ 0.0000, 0.0000,  
0.0000

■ 64.8972, 0.2325,  
0.3571

■ 64.8972, 0.2325,  
0.3571

■ 64.9043, 0.2325,  
0.3571

■ 65.2024, 0.2330,  
0.3541

■ 65.7324, 0.2349,  
0.3510

■ 66.5670, 0.2388,  
0.3480

■ 67.7489, 0.2445,  
0.3449

69.3141, 0.2522,  
0.3419

71.2940, 0.2617,  
0.3390

73.7168, 0.2728,  
0.3362

76.6083, 0.2851,  
0.3336

79.9921, 0.2986,  
0.3312

# Harmonies

## Analogous

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



64.8972, 0.2840, 0.4185



64.8972, 0.2325, 0.3571



64.8972, 0.2038, 0.2931

# Triad

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



64.8972, 0.2325, 0.3571



64.8972, 0.2697, 0.2346



64.8972, 0.4367, 0.3936

# Complementary

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



64.8972, 0.2325, 0.3571



17.8893, 0.6320, 0.3255

# 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.



64.8972, 0.4353, 0.3451



64.8972, 0.2325, 0.3571



64.8972, 0.3327, 0.2586

# Square

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



64.8972, 0.2325, 0.3571



64.8972, 0.2237, 0.2303



64.8972, 0.3958, 0.2976



64.8972, 0.4026, 0.4330



# Rectangle

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



64.8972, 0.2325, 0.3571



64.8972, 0.1991, 0.2610



64.8972, 0.3958, 0.2976



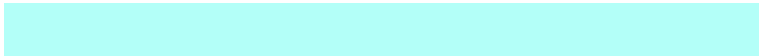
64.8972, 0.4406, 0.3778

# Sweetspot

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



64.9043, 0.2325, 0.3571



87.8331, 0.2726, 0.3363



60.1877, 0.3019, 0.5985



18.5246, 0.2678, 0.3374



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.



64.9043, 0.2325, 0.3571



77.3626, 0.2326, 0.3572



25.2864, 0.1862, 0.1901



17.0974, 0.2993, 0.3311



35.7820, 0.2324, 0.3566



2.8165, 0.2312, 0.3524



# Inverse Universe

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



17.8893, 0.6320, 0.3255



21.3207, 0.6325, 0.3258



25.9127, 0.5723, 0.3838



15.0758, 0.3279, 0.3269



9.8676, 0.6299, 0.3244

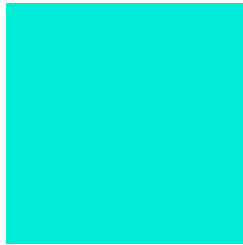


0.7823, 0.6061, 0.3113



# Previews

## White Background



This preview shows how the Yxy color 64.8972, 0.2325, 0.3571 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

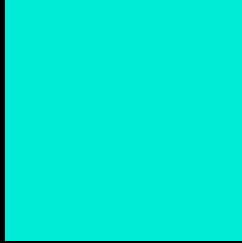
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 64.8972, 0.2325, 0.3571 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

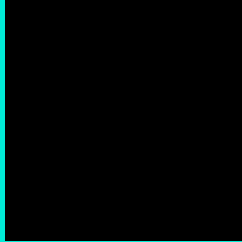
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

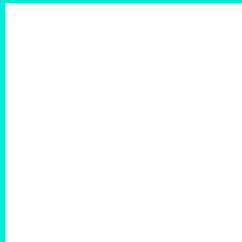
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 64.8972, 0.2325, 0.3571**

## **Background**



This preview shows how black text looks on a background with the Yxy color 64.8972, 0.2325, 0.3571.

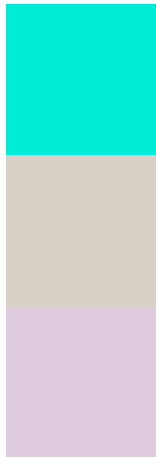


This preview shows how white text looks on a background with the Yxy color 64.8972, 0.2325, 0.3571.

# 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

64.8972, 0.2325, 0.3571

### Protanopia

63.6823, 0.3244, 0.3393

### Deuteranopia

63.6738, 0.3145, 0.3082



## Tritanopia

64.9535, 0.2234, 0.3049

# Trichromacy



## Original Color

64.8972, 0.2325, 0.3571



## Protanomaly

59.8690, 0.2680, 0.3458



## Deuteranomaly

59.4661, 0.2627, 0.3238



## Tritanomaly

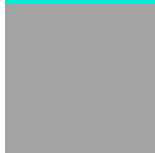
64.7856, 0.2257, 0.3236

# Monochromacy



## Original Color

64.8972, 0.2325, 0.3571



## Achromatopsia

36.6253, 0.3127, 0.3290



## Achromatomaly

43.1474, 0.2573, 0.3409

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 64.8972, 0.2325, 0.3571 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, 236, 215)` looks like.

```
.text, #text, p{  
    color:rgb(0, 236, 215)  
}
```

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, 236, 215) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 236, 215) }
```

## Border

The CSS property to change the border of an element to Yxy 64.8972, 0.2325, 0.3571 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, 236, 215) }
```

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

```
.border{ border-color:rgb(0, 236, 215) }
```

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

Here you see how a box with a 4 pixel rgb(0, 236, 215) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 236, 215); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 236, 215);  
box-shadow:4px 4px 4px 4px rgb(0, 236,  
215) }
```



# Background

The CSS property to change the background color of an element to Yxy 64.8972, 0.2325, 0.3571 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 236, 215) }
```

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

```
.background{ background-color: rgb(0, 236,  
215) }
```

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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