

# Converting Colors

$Y_{xy}(66.2352, 0.2105, 0.3759)$

Have a look what the booklet for  
Yxy(66.2352, 0.2105, 0.3759)  
contains.

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# Color

**Yxy(70.0583, 0.2368, 0.3725)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00F5D4
RGB	0, 245, 212
RGB Percent	0%, 96%, 83%
CMY	1.0000, 0.0392, 0.1685
CMYK	1.00, 0.00, 0.13, 0.04
HSL	172°, 100%, 48%
HSV	172°, 100%, 96%
XYZ	44.5364, 70.0583, 73.4813
YIQ	167.9830, -135.4270, -62.2030

# Conversions

## Conversions Part 2

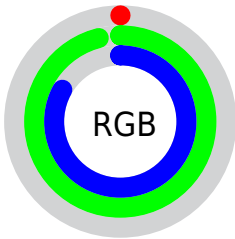
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 131, 245
Decimal	62932
CIELab	87.03, -55.72, 2.20
CIELCh	87, 55.764, 177.738
Yxy	70.0583, 0.2368, 0.3725
Android (android.graphics.Color)	4278253012 (0xFF00F5D4)
YUV	167.9830, 21.7004, -147.3211
Hunter-Lab	83.7008, -51.4984, 6.5397

# Details

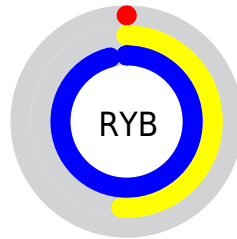
The Yxy color **70.0583, 0.2368, 0.3725** is a light color, and the websafe version is hex **33FFCC**. The color can be described as light saturated cyan. A complement of this color would be **19.5229, 0.6253, 0.3218**, and the grayscale version is **39.0932, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.3848, 0.2430, 0.3288**, and **38.4351, 0.2390, 0.3802** is the 20% darker color. If you saturate the color by 10%, you get **70.0624, 0.2368, 0.3725**, and if you desaturate by 10%, it is **70.4310, 0.2368, 0.3678**.

# Distribution



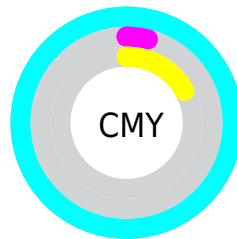
- Red (0%)
- Green (96%)
- Blue (83%)



- Red (0%)
- Yellow (51%)
- Blue (96%)



- Cyan (100%)
- Magenta (0%)
- Yellow (13%)
- Black (4%)




- Cyan (100%)
- Magenta (4%)
- Yellow (17%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 70.0583, 0.2368, 0.3725 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 70.0583, 0.2368, 0.3725 by changing the saturation by 10% instead.




 70.0583, 0.2368,  
0.3725


 70.0583, 0.2368,  
0.3725


460.7547, 0.2719,  
0.3522


 51.5741, 0.2288,  
0.3772


 119.2919, 0.2489,  
0.3654


 36.6657, 0.2191,  
0.3829


 150.8100, 0.2537,  
0.3627

 24.9487, 0.2067,  
0.3902


 187.4416, 0.2578,  
0.3603

 16.0389, 0.1908,  
0.3998

 229.5710, 0.2613,  
0.3583

 9.5517, 0.1696,  
0.4127

 277.5826, 0.2644,  
0.3565

 5.1027, 0.1402,  
0.4310

331.8608, 0.2672,

 2.3077, 0.0867,

0.3549

0.4642

392.7901, 0.2697,  
0.3535

■ 0.7778, 0.0000,  
0.5288

■ 0.0000, 0.0000,  
0.0000

■ 70.0583, 0.2368,  
0.3725

■ 70.0583, 0.2368,  
0.3725

■ 70.0624, 0.2368,  
0.3725

■ 70.4310, 0.2368,  
0.3678

■ 71.0552, 0.2384,  
0.3630

■ 72.0133, 0.2418,  
0.3582

■ 73.3524, 0.2473,  
0.3535

■ 75.1120, 0.2546,  
0.3488

■ 77.3264, 0.2637,  
0.3443

■ 80.0266, 0.2744,  
0.3401

■ 83.2408, 0.2863,  
0.3361

■ 86.9950, 0.2992,  
0.3324

# Harmonies

## Analogous

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



70.0583, 0.2942, 0.4335



70.0583, 0.2368, 0.3725



70.0583, 0.2019, 0.3024

# Triad

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



70.0583, 0.2368, 0.3725



70.0583, 0.2562, 0.2273



70.0583, 0.4465, 0.3867

# Complementary

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



70.0583, 0.2368, 0.3725



19.5229, 0.6253, 0.3218

# 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.



70.0583, 0.4373, 0.3354



70.0583, 0.2368, 0.3725



70.0583, 0.3201, 0.2488

# Square

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



70.0583, 0.2368, 0.3725



70.0583, 0.2126, 0.2270



70.0583, 0.3888, 0.2870



70.0583, 0.4164, 0.4317



# Rectangle

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



70.0583, 0.2368, 0.3725



70.0583, 0.1936, 0.2655



70.0583, 0.3888, 0.2870



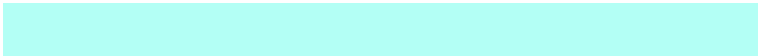
70.0583, 0.4482, 0.3697

# Sweetspot

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



70.0624, 0.2368, 0.3725



87.6187, 0.2743, 0.3401



65.6961, 0.3036, 0.5971



18.4726, 0.2697, 0.3419



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.



70.0624, 0.2368, 0.3725



76.7234, 0.2368, 0.3726



31.4762, 0.1911, 0.2080



18.7172, 0.2999, 0.3322



37.7577, 0.2366, 0.3717



3.3289, 0.2349, 0.3658



# Inverse Universe

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



19.5229, 0.6253, 0.3218



21.3773, 0.6256, 0.3220



26.0292, 0.5864, 0.3726



16.5188, 0.3272, 0.3258



10.5283, 0.6226, 0.3203

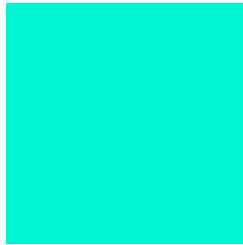


0.9364, 0.5941, 0.3047



# Previews

## White Background



This preview shows how the Yxy color 70.0583, 0.2368, 0.3725 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

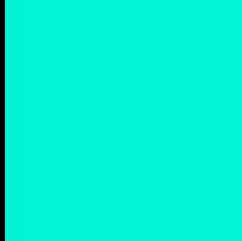
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 70.0583, 0.2368, 0.3725 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

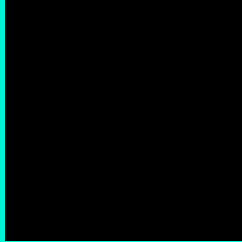
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

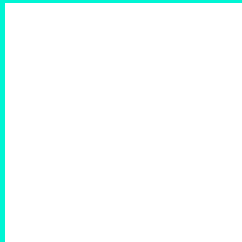
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 70.0583, 0.2368, 0.3725**

## **Background**



This preview shows how black text looks on a background with the Yxy color 70.0583, 0.2368, 0.3725.

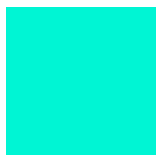


This preview shows how white text looks on a background with the Yxy color 70.0583, 0.2368, 0.3725.

# Color Blindness Simulation

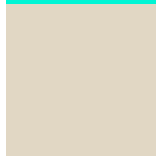
Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



### Original Color

70.0583, 0.2368, 0.3725



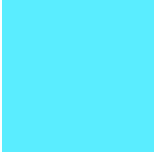
### Protanopia

68.5940, 0.3334, 0.3501



### Deuteranopia

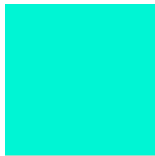
68.4304, 0.3245, 0.3173



## Tritanopia

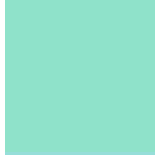
69.9620, 0.2306, 0.3070

# Trichromacy



## Original Color

70.0583, 0.2368, 0.3725



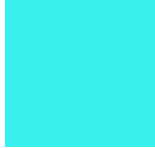
## Protanomaly

64.4966, 0.2741, 0.3595



## Deuteranomaly

63.7363, 0.2693, 0.3351



## Tritanomaly

69.4220, 0.2302, 0.3300

# Monochromacy



## Original Color

70.0583, 0.2368, 0.3725



## Achromatopsia

39.1572, 0.3127, 0.3290



## Achromatomaly

46.0663, 0.2592, 0.3465

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 70.0583, 0.2368, 0.3725 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, 245, 212)` looks like.

```
.text, #text, p{  
  color:rgb(0, 245, 212)  
}
```

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, 245, 212) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 245, 212) }
```

## Border

The CSS property to change the border of an element to Yxy 70.0583, 0.2368, 0.3725 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, 245, 212) }
```

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

```
.border{ border-color:rgb(0, 245, 212) }
```

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

Here you see how a box with a 4 pixel rgb(0, 245, 212) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 245, 212); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 245, 212);  
box-shadow:4px 4px 4px 4px rgb(0, 245,  
212) }
```



# Background

The CSS property to change the background color of an element to Yxy 70.0583, 0.2368, 0.3725 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 245, 212) }
```

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

```
.background{ background-color: rgb(0, 245,  
212) }
```

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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