

# Converting Colors

$Y_{xy}(69.5685, 0.2413, 0.3870)$

Have a look what the booklet for  
Yxy(69.5685, 0.2413, 0.3870)  
contains.

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# Color

**Yxy(69.6336, 0.2412, 0.3866)**

# Conversions

## Conversions Part 1

Format	Color
Hex	0BF5CA
RGB	11, 245, 202
RGB Percent	4%, 96%, 79%
CMY	0.9588, 0.0392, 0.2078
CMYK	0.96, 0.00, 0.18, 0.04
HSL	169°, 92%, 50%
HSV	169°, 96%, 96%
XYZ	43.4444, 69.6336, 67.0399
YIQ	170.1320, -125.6610, -62.9810

# Conversions

## Conversions Part 2

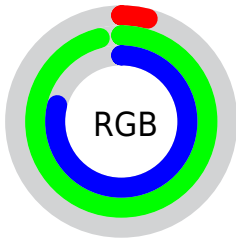
Format	Color
<a href="#">RYB</a>	<a href="#">11, 140, 245</a>
Decimal	<a href="#">783818</a>
CIELab	<a href="#">86.82, -58.02, 7.12</a>
CIElCh	<a href="#">87, 58.457, 172.999</a>
Yxy	<a href="#">69.6336, 0.2412, 0.3866</a>
Android (android.graphics.Color)	<a href="#">4278973898 (0xFF0BF5CA)</a>
YUV	<a href="#">170.1320, 15.7109, -139.5588</a>
Hunter-Lab	<a href="#">83.4467, -53.1003, 10.7800</a>

# Details

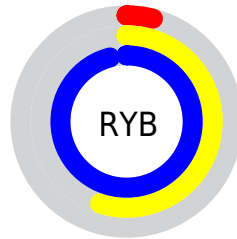
The Yxy color **69.6336, 0.2412, 0.3866** is a light color, and the websafe version is hex **33FFCC**. The color can be described as light saturated cyan. A complement of this color would be **19.9018, 0.6044, 0.3131**, and the grayscale version is **40.1582, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.4530, 0.2433, 0.3288**, and **38.1046, 0.2441, 0.3987** is the 20% darker color. If you saturate the color by 10%, you get **69.4777, 0.2415, 0.3894**, and if you desaturate by 10%, it is **70.1418, 0.2413, 0.3800**.

# Distribution



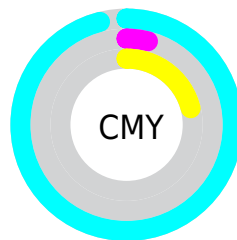
- Red (4%)
- Green (96%)
- Blue (79%)



- Red (4%)
- Yellow (55%)
- Blue (96%)



- Cyan (96%)
- Magenta (0%)
- Yellow (18%)
- Black (4%)




- Cyan (96%)
- Magenta (4%)
- Yellow (21%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 69.6336, 0.2412, 0.3866 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 69.6336, 0.2412, 0.3866 by changing the saturation by 10% instead.



 69.6336, 0.2412,  
0.3866


 69.6336, 0.2412,  
0.3866

459.2625, 0.2746,  
0.3590

 51.2279, 0.2335,  
0.3931


 118.6861, 0.2529,  
0.3769

 36.3900, 0.2240,  
0.4013


 150.1017, 0.2574,  
0.3731


 24.7356, 0.2120,  
0.4118


 186.6226, 0.2613,  
0.3699

 15.8801, 0.1963,  
0.4257

 228.6334, 0.2646,  
0.3672

 9.4394, 0.1751,  
0.4452

 276.5184, 0.2676,  
0.3647

 5.0289, 0.1452,  
0.4741


330.6620, 0.2702,

 2.2642, 0.0828,


0.3626

0.5310

391.4485, 0.2726,  
0.3607


 0.7547, 0.0000,  
0.6999


 0.0000, 0.0000,  
0.0000


 69.6336, 0.2412,  
0.3866


 69.6336, 0.2412,  
0.3866

 69.4777, 0.2415,  
0.3894

 70.1418, 0.2413,  
0.3800

 70.9519, 0.2433,  
0.3733

 72.1201, 0.2472,  
0.3666

 73.6898, 0.2531,  
0.3600

■ 75.6981, 0.2609,  
0.3536

■ 78.1778, 0.2702,  
0.3475

■ 81.1586, 0.2810,  
0.3418

■ 84.6678, 0.2928,  
0.3365

■ 88.7306, 0.3053,  
0.3316

# Harmonies

## Analogous

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



69.6336, 0.3037, 0.4462



69.6336, 0.2412, 0.3866



69.6336, 0.2008, 0.3114

# Triad

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



69.6336, 0.2412, 0.3866



69.6336, 0.2447, 0.2214



69.6336, 0.4544, 0.3802

# Complementary

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



69.6336, 0.2412, 0.3866



19.9018, 0.6044, 0.3131

# 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.



69.6336, 0.4380, 0.3268



69.6336, 0.2412, 0.3866



69.6336, 0.3087, 0.2405

# Square

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



69.6336, 0.2412, 0.3866



69.6336, 0.2034, 0.2246



69.6336, 0.3819, 0.2778



69.6336, 0.4282, 0.4295



# Rectangle

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



69.6336, 0.2412, 0.3866



69.6336, 0.1894, 0.2701



69.6336, 0.3819, 0.2778



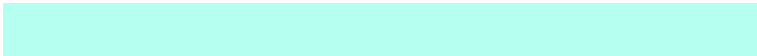
69.6336, 0.4540, 0.3623

# Sweetspot

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



69.6363, 0.2412, 0.3866



87.7274, 0.2772, 0.3437



66.0967, 0.3066, 0.5925



18.4812, 0.2727, 0.3461



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.



69.6363, 0.2412, 0.3866



76.0871, 0.2416, 0.3896



35.6894, 0.1964, 0.2252



18.7026, 0.3005, 0.3334



37.4491, 0.2412, 0.3883



3.3047, 0.2389, 0.3800



# Inverse Universe

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



19.9018, 0.6044, 0.3131



21.4631, 0.6156, 0.3165



25.8952, 0.5851, 0.3700



16.5321, 0.3265, 0.3247



10.5741, 0.6119, 0.3144

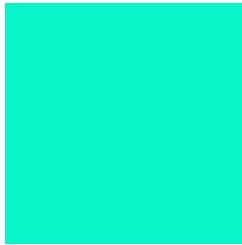


0.9427, 0.5795, 0.2966



# Previews

## White Background



This preview shows how the Yxy color 69.6336, 0.2412, 0.3866 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

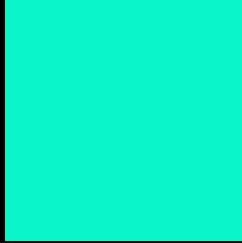
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 69.6336, 0.2412, 0.3866 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

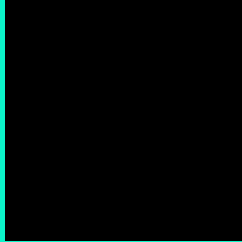
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 69.6336, 0.2412, 0.3866**

## **Background**



This preview shows how black text looks on a background with the Yxy color 69.6336, 0.2412, 0.3866.



This preview shows how white text looks on a background with the Yxy color 69.6336, 0.2412, 0.3866.

# Color Blindness Simulation

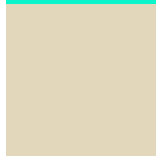
Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



### Original Color

69.6402, 0.2412, 0.3866



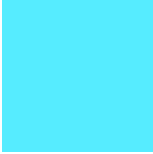
### Protanopia

68.3148, 0.3413, 0.3613



### Deuteranopia

67.9420, 0.3342, 0.3269



## Tritanopia

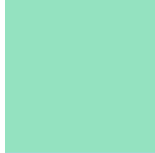
69.1893, 0.2293, 0.3057

# Trichromacy



## Original Color

69.6402, 0.2412, 0.3866



## Protanomaly

64.4944, 0.2825, 0.3725



## Deuteranomaly

63.1865, 0.2776, 0.3465



## Tritanomaly

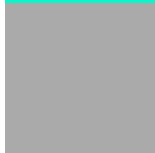
68.7189, 0.2314, 0.3326

# Monochromacy



## Original Color

69.6402, 0.2412, 0.3866



## Achromatopsia

40.1978, 0.3127, 0.3290



## Achromatomaly

46.7546, 0.2633, 0.3508

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 69.6336, 0.2412, 0.3866 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(11, 245, 202)` looks like.

```
.text, #text, p{  
    color:rgb(11, 245, 202)  
}
```

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(11, 245, 202) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(11, 245, 202) }
```

## Border

The CSS property to change the border of an element to Yxy 69.6336, 0.2412, 0.3866 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(11, 245, 202) }
```

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

```
.border{ border-color:rgb(11, 245, 202) }
```

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

Here you see how a box with a 4 pixel `rgb(11, 245, 202)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(11, 245, 202); -webkit-box-  
shadow:4px 4px 4px 4px rgb(11, 245, 202);  
box-shadow:4px 4px 4px 4px rgb(11, 245,  
202) }
```



# Background

The CSS property to change the background color of an element to Yxy 69.6336, 0.2412, 0.3866 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(11, 245, 202) }
```

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

```
.background{ background-color: rgb(11, 245,  
202) }
```

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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