

# Converting Colors

$Y_{xy}(71.6314, 0.2528, 0.4280)$

Have a look what the booklet for  
Yxy(71.6314, 0.2528, 0.4280)  
contains.

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# Color

**Yxy(71.6237, 0.2530, 0.4287)**

# Conversions

## Conversions Part 1

Format	Color
Hex	0CFAB1
RGB	12, 250, 177
RGB Percent	5%, 98%, 69%
CMY	0.9535, 0.0196, 0.3060
CMYK	0.95, 0.00, 0.29, 0.02
HSL	162°, 96%, 51%
HSV	162°, 95%, 98%
XYZ	42.2692, 71.6237, 53.1790
YIQ	170.5160, -118.4150, -73.1590

# Conversions

## Conversions Part 2

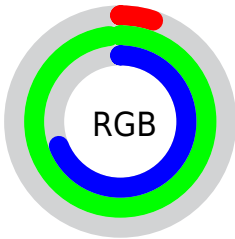
<b>Format</b>	<b>Color</b>
<b>RYB</b>	12, 153, 250
Decimal	850609
CIELab	87.79, -65.71, 21.44
CIELCh	88, 69.118, 161.929
Yxy	71.6237, 0.2530, 0.4287
Android (android.graphics.Color)	4279040689 (0xFF0CFAB1)
YUV	170.5160, 3.1966, -139.0185
Hunter-Lab	84.6308, -58.9514, 21.9858

# Details

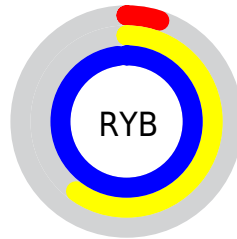
The Yxy color **71.6237, 0.2530, 0.4287** is a dark color, and the websafe version is hex **00FFCC**. The color can be described as middle saturated spring green. A complement of this color would be **21.2386, 0.5648, 0.2912**, and the grayscale version is **40.4743, 0.3127, 0.3290**.

A 20% lighter version of the original color is **81.1162, 0.2524, 0.3550**, and **39.1545, 0.2582, 0.4496** is the 20% darker color. If you saturate the color by 10%, you get **71.4065, 0.2539, 0.4342**, and if you desaturate by 10%, it is **72.2543, 0.2520, 0.4170**.

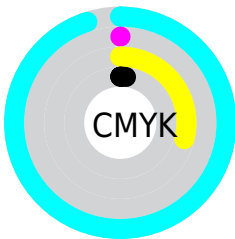
# Distribution



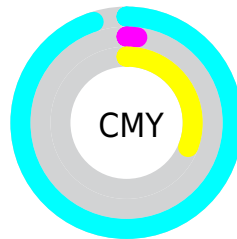
- Red (5%)
- Green (98%)
- Blue (69%)



- Red (5%)
- Yellow (60%)
- Blue (98%)



- Cyan (95%)
- Magenta (0%)
- Yellow (29%)
- Black (2%)




- Cyan (95%)
- Magenta (2%)
- Yellow (31%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 71.6237, 0.2530, 0.4287 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 71.6237, 0.2530, 0.4287 by changing the saturation by 10% instead.




 71.6237, 0.2530,  
0.4287


 71.6237, 0.2530,  
0.4287


466.2308, 0.2820,  
0.3794

 52.8513, 0.2460,  
0.4407

 121.5214, 0.2633,  
0.4110

 37.6841, 0.2373,  
0.4560


 153.4155, 0.2673,  
0.4042


 25.7376, 0.2260,  
0.4761


 190.4523, 0.2706,  
0.3985

 16.6274, 0.2108,  
0.5033


 233.0162, 0.2735,  
0.3936

 9.9692, 0.1896,  
0.5421

 281.4916, 0.2761,  
0.3894

 5.3786, 0.1583,  
0.6013


336.2629, 0.2783,

 2.4710, 0.0791,


0.3856

0.7303


397.7145, 0.2803,  
0.3823


 0.8621, 0.0000,  
1.0000


 0.0000, 0.0000,  
0.0000


 71.6237, 0.2530,  
0.4287

 71.6237, 0.2530,  
0.4287


 71.4065, 0.2539,  
0.4342

 72.2543, 0.2520,  
0.4170


 73.2148, 0.2530,  
0.4052

 74.5641, 0.2560,  
0.3934

 76.3475, 0.2610,  
0.3818

 78.6041, 0.2678,  
0.3707

 81.3683, 0.2760,  
0.3601

 84.6716, 0.2855,  
0.3503

 88.5425, 0.2959,  
0.3412

 93.0078, 0.3068,  
0.3330

# Harmonies

## Analogous

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



71.6237, 0.3296, 0.4809



71.6237, 0.2530, 0.4287



71.6237, 0.1969, 0.3387

# Triad

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



71.6237, 0.2530, 0.4287



71.6237, 0.2135, 0.2044



71.6237, 0.4770, 0.3621

# Complementary

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



71.6237, 0.2530, 0.4287



21.2386, 0.5648, 0.2912

# 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.



71.6237, 0.4396, 0.3032



71.6237, 0.2530, 0.4287



71.6237, 0.2775, 0.2174

# Square

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



71.6237, 0.2530, 0.4287



71.6237, 0.1782, 0.2173



71.6237, 0.3618, 0.2523



71.6237, 0.4616, 0.4220



# Rectangle

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



71.6237, 0.2530, 0.4287



71.6237, 0.1769, 0.2837



71.6237, 0.3618, 0.2523



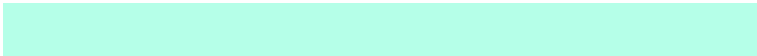
71.6237, 0.4704, 0.3420

# Sweetspot

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



71.6265, 0.2530, 0.4287



87.1944, 0.2818, 0.3539



70.4412, 0.3169, 0.5842



18.3523, 0.2778, 0.3581



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.



71.6265, 0.2530, 0.4287



74.6866, 0.2540, 0.4343



51.2886, 0.2092, 0.2712



19.5126, 0.3021, 0.3364



37.9005, 0.2534, 0.4323



3.5292, 0.2495, 0.4183



# Inverse Universe

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



21.2386, 0.5648, 0.2912



21.8128, 0.5788, 0.2962



23.1327, 0.6132, 0.3470



17.3129, 0.3246, 0.3218



11.0846, 0.5743, 0.2937

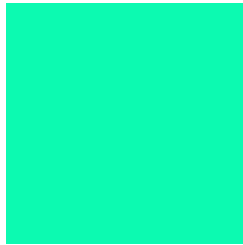


1.0447, 0.5406, 0.2752



# Previews

## White Background



This preview shows how the Yxy color 71.6237, 0.2530, 0.4287 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

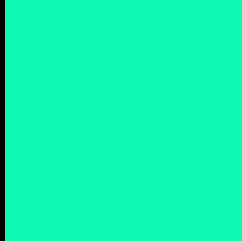
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 71.6237, 0.2530, 0.4287 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

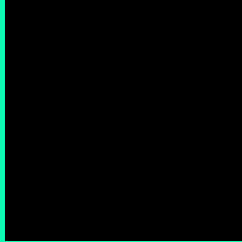
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 71.6237, 0.2530, 0.4287**

## **Background**



This preview shows how black text looks on a background with the Yxy color 71.6237, 0.2530, 0.4287.

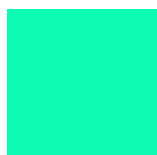


This preview shows how white text looks on a background with the Yxy color 71.6237, 0.2530, 0.4287.

# Color Blindness Simulation

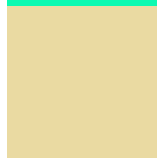
Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



### Original Color

71.6237, 0.2530, 0.4287



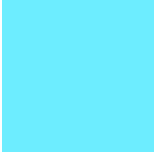
### Protanopia

70.2439, 0.3639, 0.3901



### Deuteranopia

69.9624, 0.3612, 0.3542



## **Tritanopia**

71.0396, 0.2364, 0.3074

# Trichromacy



## Original Color

71.6237, 0.2530, 0.4287



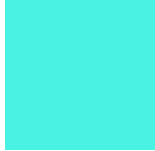
## Protanomaly

66.1560, 0.3000, 0.4100



## Deuteranomaly

65.0559, 0.2969, 0.3820



## Tritanomaly

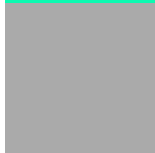
70.5062, 0.2390, 0.3479

# Monochromacy



## Original Color

71.6237, 0.2530, 0.4287



## Achromatopsia

40.1978, 0.3127, 0.3290



## Achromatomaly

47.3087, 0.2690, 0.3673

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 71.6237, 0.2530, 0.4287 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(12, 250, 177)` looks like.

```
.text, #text, p{  
    color:rgb(12, 250, 177)  
}
```

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(12, 250, 177) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(12, 250, 177) }
```

## Border

The CSS property to change the border of an element to Yxy 71.6237, 0.2530, 0.4287 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(12, 250, 177) }
```

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

```
.border{ border-color:rgb(12, 250, 177) }
```

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

Here you see how a box with a 4 pixel `rgb(12, 250, 177)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(12, 250, 177); -webkit-box-  
shadow:4px 4px 4px 4px rgb(12, 250, 177);  
box-shadow:4px 4px 4px 4px rgb(12, 250,  
177) }
```



# Background

The CSS property to change the background color of an element to Yxy 71.6237, 0.2530, 0.4287 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(12, 250, 177) }
```

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

```
.background{ background-color: rgb(12, 250,  
177) }
```

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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