

# Converting Colors

$Y_{xy}(71.6016, 0.2389, 0.3734)$

Have a look what the booklet for  
Yxy(71.6016, 0.2389, 0.3734)  
contains.

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# Color

**Yxy(71.6016, 0.2389, 0.3734)**

# Conversions

## Conversions Part 1

Format	Color
Hex	1EF7D5
RGB	30, 247, 213
RGB Percent	12%, 97%, 84%
CMY	0.8812, 0.0314, 0.1648
CMYK	0.88, 0.00, 0.14, 0.03
HSL	171°, 93%, 54%
HSV	171°, 88%, 97%
XYZ	45.8105, 71.6016, 74.3437
YIQ	178.2410, -118.4180, -56.5780

# Conversions

## Conversions Part 2

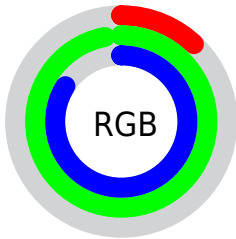
<b>Format</b>	<b>Color</b>
<b>RYB</b>	30, 148, 247
Decimal	2029525
CIELab	87.78, -55.29, 2.81
CIELCh	88, 55.360, 177.088
Yxy	71.6016, 0.2389, 0.3734
Android (android.graphics.Color)	4280219605 (0xFF1EF7D5)
YUV	178.2410, 17.1362, -130.0074
Hunter-Lab	84.6177, -51.4445, 7.1412

# Details

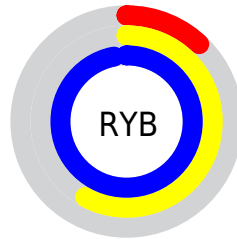
The Yxy color **71.6016, 0.2389, 0.3734** is a light color, and the websafe version is hex **33FFCC**. The color can be described as light washed cyan. A complement of this color would be **21.0914, 0.5871, 0.3114**, and the grayscale version is **44.6577, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.8776, 0.2453, 0.3288**, and **39.2955, 0.2398, 0.3833** is the 20% darker color. If you saturate the color by 10%, you get **71.1654, 0.2389, 0.3790**, and if you desaturate by 10%, it is **72.3353, 0.2407, 0.3678**.

# Distribution



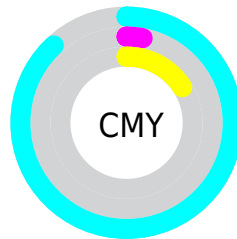
- Red (12%)
- Green (97%)
- Blue (84%)



- Red (12%)
- Yellow (58%)
- Blue (97%)



- Cyan (88%)
- Magenta (0%)
- Yellow (14%)
- Black (3%)




- Cyan (88%)
- Magenta (3%)
- Yellow (16%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 71.6016, 0.2389, 0.3734 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 71.6016, 0.2389, 0.3734 by changing the saturation by 10% instead.





 71.6016, 0.2389,  
0.3734

 71.6016, 0.2389,  
0.3734


466.1537, 0.2729,  
0.3527


 52.8333, 0.2312,  
0.3782


 121.4899, 0.2507,  
0.3662

 37.6697, 0.2217,  
0.3841


 153.3788, 0.2553,  
0.3634

 25.7264, 0.2098,  
0.3915


 190.4099, 0.2592,  
0.3610

 16.6191, 0.1945,  
0.4013

 232.9677, 0.2627,  
0.3589

 9.9633, 0.1740,  
0.4145

281.4366, 0.2657,  
0.3570

 5.3746, 0.1456,  
0.4334


336.2010, 0.2684,

 2.4687, 0.0981,


0.3554


0.4652


397.6452, 0.2708,  
0.3540


 0.8609, 0.0000,  
0.5375


 0.0000, 0.0000,  
0.0000


 71.6016, 0.2389,  
0.3734


 71.6016, 0.2389,  
0.3734


 71.1654, 0.2389,  
0.3790


 72.3353, 0.2407,  
0.3678


 71.0858, 0.2390,  
0.3802


 73.4194, 0.2444,  
0.3621

 74.9028, 0.2501,  
0.3565

 76.8242, 0.2577,  
0.3511

 79.2181, 0.2670,  
0.3458

 82.1151, 0.2778,  
0.3409

 85.5436, 0.2897,  
0.3363

 89.5296, 0.3024,  
0.3320

 94.0976, 0.3158,  
0.3282

# Harmonies

## Analogous

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



71.6016, 0.2960, 0.4328



71.6016, 0.2389, 0.3734



71.6016, 0.2037, 0.3043

# Triad

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



71.6016, 0.2389, 0.3734



71.6016, 0.2558, 0.2283



71.6016, 0.4449, 0.3850

# Complementary

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



71.6016, 0.2389, 0.3734



21.0914, 0.5871, 0.3114

# 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.



71.6016, 0.4348, 0.3343



71.6016, 0.2389, 0.3734



71.6016, 0.3185, 0.2491

# Square

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



71.6016, 0.2389, 0.3734



71.6016, 0.2132, 0.2286



71.6016, 0.3864, 0.2866



71.6016, 0.4161, 0.4296



# Rectangle

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



71.6016, 0.2389, 0.3734



71.6016, 0.1952, 0.2674



71.6016, 0.3864, 0.2866



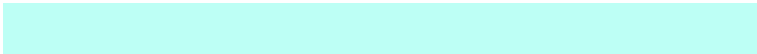
71.6016, 0.4462, 0.3683

# Sweetspot

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



71.6043, 0.2389, 0.3734



88.8682, 0.2797, 0.3401



67.7886, 0.3084, 0.5843



18.7694, 0.2758, 0.3417



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.



71.6043, 0.2389, 0.3734



76.4248, 0.2390, 0.3803



37.5646, 0.1992, 0.2295



18.7105, 0.3002, 0.3327



37.6130, 0.2387, 0.3793



3.3176, 0.2367, 0.3723



# Inverse Universe

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



21.0914, 0.5871, 0.3114



21.4134, 0.6214, 0.3197



29.4769, 0.5598, 0.3802



16.5249, 0.3269, 0.3253



10.5477, 0.6180, 0.3178

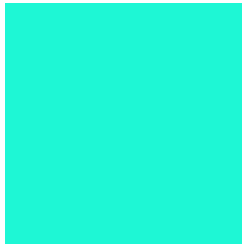


0.9393, 0.5873, 0.3009



# Previews

## White Background



This preview shows how the Yxy color 71.6016, 0.2389, 0.3734 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

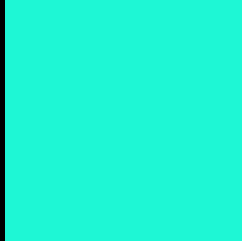
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 71.6016, 0.2389, 0.3734 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

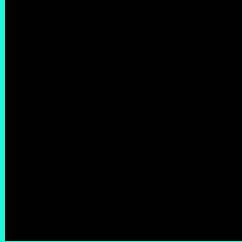
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 71.6016, 0.2389, 0.3734**

## **Background**



This preview shows how black text looks on a background with the Yxy color 71.6016, 0.2389, 0.3734.



This preview shows how white text looks on a background with the Yxy color 71.6016, 0.2389, 0.3734.

# 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

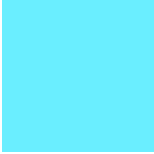
71.6016, 0.2389, 0.3734

### Protanopia

69.9878, 0.3339, 0.3510

### Deuteranopia

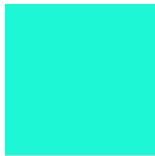
69.9861, 0.3259, 0.3185



## **Tritanopia**

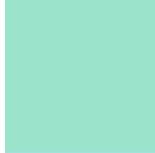
71.4332, 0.2357, 0.3085

# Trichromacy



## Original Color

71.6016, 0.2389, 0.3734



## Protanomaly

66.7672, 0.2806, 0.3600



## Deuteranomaly

66.0546, 0.2759, 0.3362



## Tritanomaly

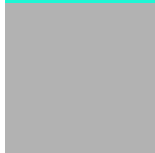
70.8216, 0.2345, 0.3300

# Monochromacy



## Original Color

71.6016, 0.2389, 0.3734



## Achromatopsia

44.5201, 0.3127, 0.3290



## Achromatomaly

50.7585, 0.2661, 0.3456

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 71.6016, 0.2389, 0.3734 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(30, 247, 213)` looks like.

```
.text, #text, p{  
    color:rgb(30, 247, 213)  
}
```

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(30, 247, 213) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(30, 247, 213) }
```

## Border

The CSS property to change the border of an element to Yxy 71.6016, 0.2389, 0.3734 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(30, 247, 213) }
```

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

```
.border{ border-color:rgb(30, 247, 213) }
```

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

Here you see how a box with a 4 pixel `rgb(30, 247, 213)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(30, 247, 213); -webkit-box-  
shadow:4px 4px 4px 4px rgb(30, 247, 213);  
box-shadow:4px 4px 4px 4px rgb(30, 247,  
213) }
```



# Background

The CSS property to change the background color of an element to Yxy 71.6016, 0.2389, 0.3734 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(30, 247, 213) }
```

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

```
.background{ background-color: rgb(30, 247,  
213) }
```

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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