

# Converting Colors

$Y_{xy}(72.5000, 0.2192, 0.2994)$

Have a look what the booklet for  
Yxy(72.5000, 0.2192, 0.2994)  
contains.

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# Color

**Yxy(71.8348, 0.2234, 0.3141)**

# Conversions

## Conversions Part 1

Format	Color
Hex	2BF3FF
RGB	43, 243, 255
RGB Percent	17%, 95%, 100%
CMY	0.8318, 0.0470, 0.0000
CMYK	0.83, 0.05, 0.00, 0.00
HSL	183°, 100%, 58%
HSV	183°, 83%, 100%
XYZ	51.0917, 71.8348, 105.7739
YIQ	184.5680, -123.0520, -38.6680

# Conversions

## Conversions Part 2

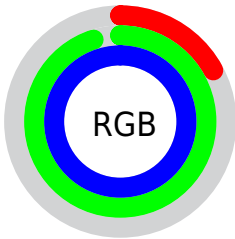
<b>Format</b>	<b>Color</b>
<b>RYB</b>	43, 146, 255
Decimal	2880511
CIELab	87.89, -41.25, -18.96
CIELCh	88, 45.402, 204.682
Yxy	71.8348, 0.2234, 0.3141
Android (android.graphics.Color)	4281070591 (0xFF2BF3FF)
YUV	184.5680, 34.7230, -124.1551
Hunter-Lab	84.7554, -40.7198, -14.6646

# Details

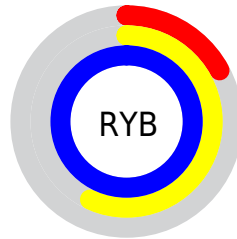
The Yxy color **71.8348, 0.2234, 0.3141** is a light color, and the websafe version is hex **33FFFF**. The color can be described as light washed cyan. A complement of this color would be **24.1527, 0.5989, 0.3361**, and the grayscale version is **48.1012, 0.3127, 0.3290**.

A 20% lighter version of the original color is **83.4858, 0.2482, 0.3288**, and **39.1950, 0.2194, 0.3099** is the 20% darker color. If you saturate the color by 10%, you get **70.5900, 0.2207, 0.3122**, and if you desaturate by 10%, it is **73.4350, 0.2279, 0.3160**.

# Distribution



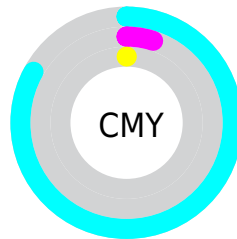
- Red (17%)
- Green (95%)
- Blue (100%)



- Red (17%)
- Yellow (57%)
- Blue (100%)



- Cyan (83%)
- Magenta (5%)
- Yellow (0%)
- Black (0%)




- Cyan (83%)
- Magenta (5%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 71.8348, 0.2234, 0.3141 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 71.8348, 0.2234, 0.3141 by changing the saturation by 10% instead.




 71.8348, 0.2234,  
0.3141


 71.8348, 0.2234,  
0.3141


466.9664, 0.2633,  
0.3224

 53.0237, 0.2147,  
0.3119


 121.8216, 0.2369,  
0.3173


 37.8217, 0.2042,  
0.3090


 153.7662, 0.2423,  
0.3184

 25.8444, 0.1913,  
0.3051


 190.8574, 0.2469,  
0.3194

 16.7072, 0.1750,  
0.2996

 233.4796, 0.2510,  
0.3202

 10.0260, 0.1542,  
0.2916

282.0172, 0.2546,  
0.3209

 5.4162, 0.1268,  
0.2790

336.8546, 0.2578,

 2.4935, 0.0905,

0.3215

0.2577

398.3762, 0.2607,  
0.3220

■ 0.8734, 0.0000,  
0.2277

■ 0.0000, 0.0000,  
0.0000

■ 71.8348, 0.2234,  
0.3141

■ 71.8348, 0.2234,  
0.3141

■ 70.5900, 0.2207,  
0.3122


■ 73.4350, 0.2279,  
0.3160

■ 69.8853, 0.2197,  
0.3109


■ 75.4384, 0.2343,  
0.3180


■ 77.8934, 0.2426,  
0.3199


■ 80.8396, 0.2528,  
0.3218

 84.3123, 0.2647,  
0.3236

 88.3435, 0.2780,  
0.3254

 92.9624, 0.2925,  
0.3270

 98.1965, 0.3077,  
0.3285

 99.9996, 0.3127,  
0.3290

# Harmonies

## Analogous

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



71.8348, 0.2554, 0.3697



71.8348, 0.2234, 0.3141



71.8348, 0.2139, 0.2698

# Triad

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



71.8348, 0.2234, 0.3141



71.8348, 0.3136, 0.2599



71.8348, 0.4019, 0.4111

# Complementary

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



71.8348, 0.2234, 0.3141



24.1527, 0.5989, 0.3361

# 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.



71.8348, 0.4222, 0.3744



71.8348, 0.2234, 0.3141



71.8348, 0.3692, 0.2911

# Square

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



71.8348, 0.2234, 0.3141



71.8348, 0.2623, 0.2437



71.8348, 0.4104, 0.3315



71.8348, 0.3581, 0.4290



# Rectangle

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



71.8348, 0.2234, 0.3141



71.8348, 0.2204, 0.2516



71.8348, 0.4104, 0.3315



71.8348, 0.4118, 0.4002

# Sweetspot

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



71.8374, 0.2234, 0.3141



87.5720, 0.2755, 0.3251



72.2889, 0.2990, 0.5778



18.4348, 0.2708, 0.3245



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.



71.8374, 0.2234, 0.3141



69.8891, 0.2197, 0.3109



26.0041, 0.1850, 0.1707



20.2952, 0.2980, 0.3276



36.5946, 0.2198, 0.3112



3.6146, 0.2204, 0.3134



# Inverse Universe

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



29.4500, 0.3327, 0.1682



27.5865, 0.3359, 0.1624



46.4169, 0.4971, 0.4260



18.2816, 0.3147, 0.3069



14.4222, 0.3356, 0.1623

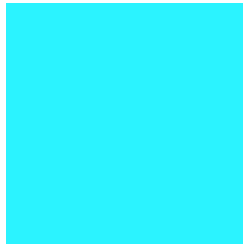


1.4094, 0.3338, 0.1612



# Previews

## White Background



This preview shows how the Yxy color 71.8348, 0.2234, 0.3141 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

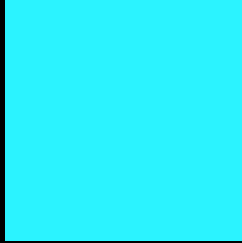
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 71.8348, 0.2234, 0.3141 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 71.8348, 0.2234, 0.3141**

## **Background**



This preview shows how black text looks on a background with the Yxy color 71.8348, 0.2234, 0.3141.

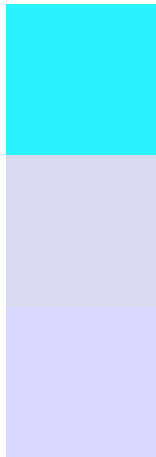


This preview shows how white text looks on a background with the Yxy color 71.8348, 0.2234, 0.3141.

# 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

71.8348, 0.2234, 0.3141

### Protanopia

70.3977, 0.2983, 0.3063

### Deuteranopia

70.2186, 0.2891, 0.2859



## Tritanopia

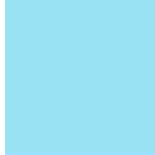
71.3723, 0.2354, 0.3085

# Trichromacy



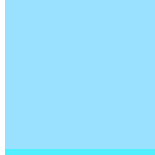
## Original Color

71.8348, 0.2234, 0.3141



## Protanomaly

67.6967, 0.2575, 0.3077



## Deuteranomaly

67.9405, 0.2525, 0.2943



## Tritanomaly

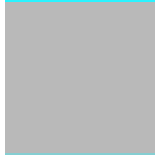
71.3340, 0.2295, 0.3107

# Monochromacy



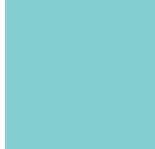
## Original Color

71.8348, 0.2234, 0.3141



## Achromatopsia

48.5150, 0.3127, 0.3290



## Achromatomaly

53.7823, 0.2610, 0.3235

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 71.8348, 0.2234, 0.3141 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(43, 243, 255)` looks like.

```
.text, #text, p{  
    color:rgb(43, 243, 255)  
}
```

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(43, 243, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(43, 243, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 71.8348, 0.2234, 0.3141 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(43, 243, 255) }
```

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

```
.border{ border-color:rgb(43, 243, 255) }
```

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

Here you see how a box with a 4 pixel rgb(43, 243, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(43, 243, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(43, 243, 255);  
box-shadow:4px 4px 4px 4px rgb(43, 243,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 71.8348, 0.2234, 0.3141 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(43, 243, 255) }
```

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

```
.background{ background-color: rgb(43, 243,  
255) }
```

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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