

# Converting Colors

$Y_{xy}(43.5658, 0.1464, 0.2820)$

Have a look what the booklet for  
Yxy(43.5658, 0.1464, 0.2820)  
contains.

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# Color

**Yxy(51.7740, 0.2137, 0.2894)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00D1EE
RGB	0, 209, 238
RGB Percent	0%, 82%, 93%
CMY	1.0000, 0.1804, 0.0665
CMYK	1.00, 0.12, 0.00, 0.07
HSL	187°, 100%, 47%
HSV	187°, 100%, 93%
XYZ	38.2312, 51.7740, 88.8960
YIQ	149.8150, -133.8730, -35.2890

# Conversions

## Conversions Part 2

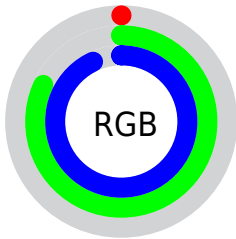
Format	Color
<b>RYB</b>	0, 111, 238
Decimal	53742
CIELab	77.15, -32.40, -26.33
CIELCh	77, 41.751, 219.099
Yxy	51.7740, 0.2137, 0.2894
Android (android.graphics.Color)	4278243822 (0xFF00D1EE)
YUV	149.8150, 43.4752, -131.3878
Hunter-Lab	71.9542, -31.0779, -22.8821

# Details

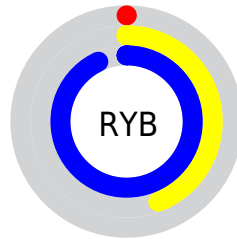
The Yxy color **51.7740, 0.2137, 0.2894** is a light color, and the websafe version is hex **00CCFF**. The color can be described as light washed cyan. A complement of this color would be **19.0641, 0.6313, 0.3370**, and the grayscale version is **30.2754, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.1847, 0.2420, 0.3288**, and **26.4886, 0.2110, 0.2794** is the 20% darker color. If you saturate the color by 10%, you get **51.7798, 0.2137, 0.2894**, and if you desaturate by 10%, it is **53.4093, 0.2162, 0.2936**.

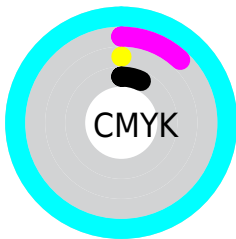
# Distribution



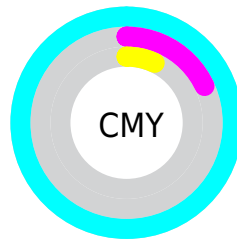
- Red (0%)
- Green (82%)
- Blue (93%)



- Red (0%)
- Yellow (44%)
- Blue (93%)



- Cyan (100%)
- Magenta (12%)
- Yellow (0%)
- Black (7%)




- Cyan (100%)
- Magenta (18%)
- Yellow (7%)

# Brightness & Saturation Gradients


These gradients show how the Yxy color 51.7740, 0.2137, 0.2894 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 51.7740, 0.2137, 0.2894 by changing the saturation by 10% instead.





 51.7740, 0.2137,  
0.2894


 51.7740, 0.2137,  
0.2894


 393.5635, 0.2601,  
0.3103

 36.8250, 0.2031,  
0.2840


 92.7979, 0.2298,  
0.2972


 25.0720, 0.1902,  
0.2770


 119.6415, 0.2361,  
0.3000


 16.1307, 0.1740,  
0.2677


 151.2187, 0.2415,  
0.3024

 9.6167, 0.1533,  
0.2548

 187.9140, 0.2462,  
0.3045

 5.1456, 0.1263,  
0.2360

 230.1117, 0.2503,  
0.3062

 2.3329, 0.0909,  
0.2069

 278.1963, 0.2539,

 0.7911, 0.0000,

0.3078

0.1667

332.5521, 0.2572,  
0.3091

■ 0.0000, 0.0000,  
0.0000

■ 51.7740, 0.2137,  
0.2894

■ 51.7740, 0.2137,  
0.2894

■ 51.7798, 0.2137,  
0.2894

■ 53.4093, 0.2162,  
0.2936

■ 55.3001, 0.2203,  
0.2979

■ 57.5265, 0.2262,  
0.3022

■ 60.1321, 0.2342,  
0.3065

■ 63.1538, 0.2439,  
0.3108

■ 66.6239, 0.2554,  
0.3149

■ 70.5712, 0.2683,  
0.3188

■ 75.0221, 0.2824,  
0.3225

■ 80.0010, 0.2973,  
0.3259

# Harmonies

## Analogous

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



51.7740, 0.2355, 0.3430



51.7740, 0.2137, 0.2894



51.7740, 0.2154, 0.2539

# Triad

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



51.7740, 0.2137, 0.2894



51.7740, 0.3415, 0.2720



51.7740, 0.3846, 0.4253

# Complementary

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



51.7740, 0.2137, 0.2894



19.0641, 0.6313, 0.3370

# 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.



51.7740, 0.4186, 0.3948



51.7740, 0.2137, 0.2894



51.7740, 0.3940, 0.3092

# Square

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



51.7740, 0.2137, 0.2894



51.7740, 0.2847, 0.2475



51.7740, 0.4230, 0.3526



51.7740, 0.3329, 0.4293

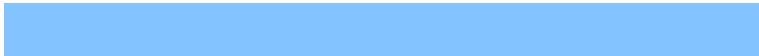


# Rectangle

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



51.7740, 0.2137, 0.2894



51.7740, 0.2294, 0.2425



51.7740, 0.4230, 0.3526



51.7740, 0.3986, 0.4173

# Sweetspot

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



51.7798, 0.2137, 0.2894



82.4552, 0.2682, 0.3187



61.2543, 0.2980, 0.5928



17.2163, 0.2626, 0.3171



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

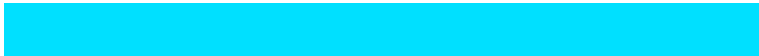


# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



51.7798, 0.2137, 0.2894



60.4776, 0.2137, 0.2893



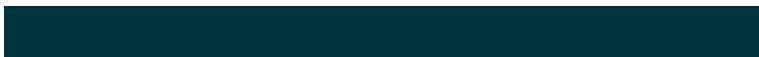
13.7000, 0.1663, 0.1187



17.5806, 0.2981, 0.3260



29.0065, 0.2139, 0.2901



2.5048, 0.2155, 0.2957



# Inverse Universe

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



22.7876, 0.3549, 0.1729



26.6364, 0.3550, 0.1729



38.9861, 0.5087, 0.4343



15.9963, 0.3157, 0.3085



12.7216, 0.3543, 0.1725

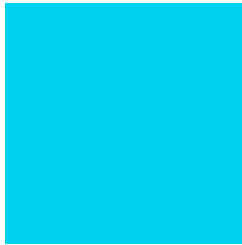


1.0676, 0.3493, 0.1698



# Previews

## White Background



This preview shows how the Yxy color 51.7740, 0.2137, 0.2894 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

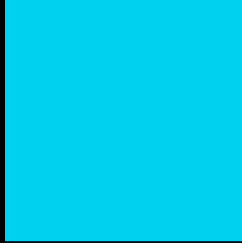
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 51.7740, 0.2137, 0.2894 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

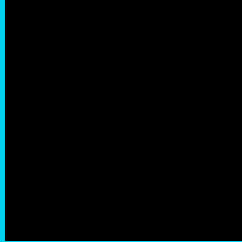
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 51.7740, 0.2137, 0.2894**

## **Background**



This preview shows how black text looks on a background with the Yxy color 51.7740, 0.2137, 0.2894.

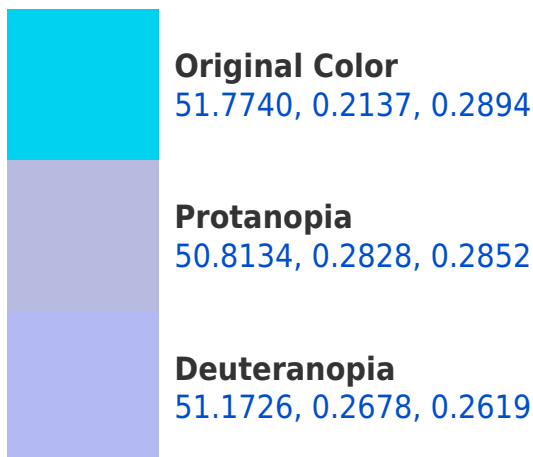


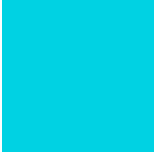
This preview shows how white text looks on a background with the Yxy color 51.7740, 0.2137, 0.2894.

# 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





## Tritanopia

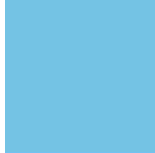
51.6392, 0.2181, 0.3051

# Trichromacy



## Original Color

51.7740, 0.2137, 0.2894



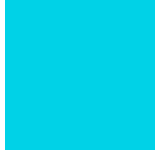
## Protanomaly

48.3447, 0.2400, 0.2850



## Deuteranomaly

48.5119, 0.2327, 0.2680



## Tritanomaly

51.8627, 0.2166, 0.2998

# Monochromacy



## Original Color

51.7740, 0.2137, 0.2894



## Achromatopsia

30.4987, 0.3127, 0.3290



## Achromatomaly

34.9361, 0.2471, 0.3114

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 51.7740, 0.2137, 0.2894 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, 209, 238)` looks like.

```
.text, #text, p{  
    color:rgb(0, 209, 238)  
}
```

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, 209, 238) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 209, 238) }
```

## Border

The CSS property to change the border of an element to Yxy 51.7740, 0.2137, 0.2894 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, 209, 238) }
```

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

```
.border{ border-color:rgb(0, 209, 238) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 209, 238)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 209, 238); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 209, 238);  
box-shadow:4px 4px 4px 4px rgb(0, 209,  
238) }
```



# Background

The CSS property to change the background color of an element to Yxy 51.7740, 0.2137, 0.2894 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 209, 238) }
```

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

```
.background{ background-color: rgb(0, 209,  
238) }
```

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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