

# Converting Colors

$Y_{xy}(51.3086, 0.2088, 0.2641)$

Have a look what the booklet for  
Yxy(51.3086, 0.2088, 0.2641)  
contains.

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# Color

**Yxy(51.2060, 0.2087, 0.2639)**

# Conversions

## Conversions Part 1

Format	Color
Hex	21CDFF
RGB	33, 205, 255
RGB Percent	13%, 80%, 100%
CMY	0.8721, 0.1960, 0.0001
CMYK	0.87, 0.20, 0.00, 0.00
HSL	193°, 100%, 56%
HSV	193°, 87%, 100%
XYZ	40.4952, 51.2060, 102.3344
YIQ	159.2720, -118.5620, -20.9140

# Conversions

## Conversions Part 2

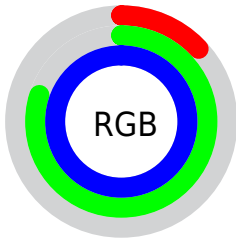
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	33, 130, 255
Decimal	2215423
CIE Lab	76.80, -23.78, -35.90
CIE LCh	77, 43.063, 236.479
Yxy	51.2060, 0.2087, 0.2639
Android (android.graphics.Color)	4280405503 (0xFF21CDFF)
YUV	159.2720, 47.1939, -110.7405
Hunter-Lab	71.5584, -24.2131, -34.6987

# Details

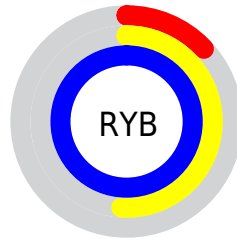
The Yxy color **51.2060, 0.2087, 0.2639** is a light color, and the websafe version is hex **00CCFF**. The color can be described as light washed cyan. A complement of this color would be **27.4833, 0.5832, 0.3597**, and the grayscale version is **34.5712, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.8776, 0.2453, 0.3288**, and **26.2104, 0.2028, 0.2500** is the 20% darker color. If you saturate the color by 10%, you get **48.2458, 0.2047, 0.2556**, and if you desaturate by 10%, it is **54.5849, 0.2146, 0.2723**.

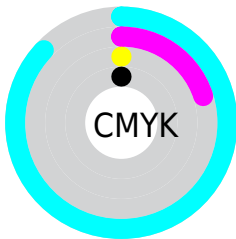
# Distribution



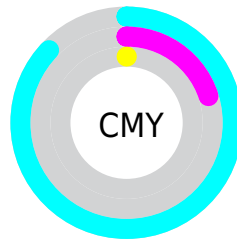
- Red (13%)
- Green (80%)
- Blue (100%)



- Red (13%)
- Yellow (51%)
- Blue (100%)



- Cyan (87%)
- Magenta (20%)
- Yellow (0%)
- Black (0%)




- Cyan (87%)
- Magenta (20%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 51.2060, 0.2087, 0.2639 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 51.2060, 0.2087, 0.2639 by changing the saturation by 10% instead.




 51.2060, 0.2087,  
0.2639

 51.2060, 0.2087,  
0.2639


391.3636, 0.2571,  
0.2966


 36.3726, 0.1978,  
0.2560


 91.9592, 0.2254,  
0.2757

 24.7221, 0.1845,  
0.2459


 118.6478, 0.2319,  
0.2801

 15.8701, 0.1681,  
0.2330


 150.0568, 0.2376,  
0.2839

 9.4323, 0.1473,  
0.2158

 186.5708, 0.2425,  
0.2872

 5.0242, 0.1207,  
0.1921

 228.5741, 0.2468,  
0.2900

 2.2615, 0.0868,  
0.1586

276.4510, 0.2507,

 0.7532, 0.0203,

0.2924

0.1127

330.5861, 0.2541,  
0.2946

■ 0.0000, 0.0000,  
0.0000

■ 51.2060, 0.2087,  
0.2639

■ 51.2060, 0.2087,  
0.2639

■ 48.2458, 0.2047,  
0.2556

■ 54.5849, 0.2146,  
0.2723

■ 47.4666, 0.2037,  
0.2533

■ 58.4415, 0.2226,  
0.2807

■ 62.8276, 0.2325,  
0.2890

■ 67.7862, 0.2441,  
0.2970

■ 73.3550, 0.2571,  
0.3047

■ 79.5682, 0.2712,  
0.3120

■ 86.4570, 0.2862,  
0.3187

■ 94.0505, 0.3015,  
0.3249

■ 99.9983, 0.3127,  
0.3290

# Harmonies

## Analogous

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



51.2060, 0.2171, 0.3095



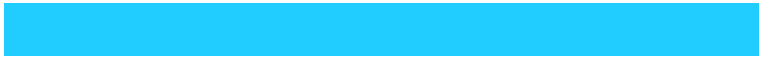
51.2060, 0.2087, 0.2639



51.2060, 0.2243, 0.2407

# Triad

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



51.2060, 0.2087, 0.2639



51.2060, 0.3759, 0.2911



51.2060, 0.3571, 0.4355

# Complementary

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



51.2060, 0.2087, 0.2639



27.4833, 0.5832, 0.3597

# 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.



51.2060, 0.4047, 0.4175



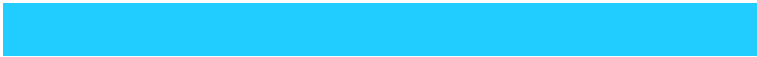
51.2060, 0.2087, 0.2639



51.2060, 0.4183, 0.3339

# Square

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



51.2060, 0.2087, 0.2639



51.2060, 0.3170, 0.2577



51.2060, 0.4284, 0.3790



51.2060, 0.3001, 0.4186



# Rectangle

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



51.2060, 0.2087, 0.2639



51.2060, 0.2472, 0.2376



51.2060, 0.4284, 0.3790



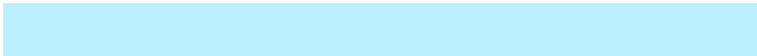
51.2060, 0.3748, 0.4328

# Sweetspot

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



51.2078, 0.2087, 0.2639



80.3828, 0.2730, 0.3128



72.4115, 0.2911, 0.5571



16.7224, 0.2680, 0.3104



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.



51.2078, 0.2087, 0.2639



47.4774, 0.2037, 0.2533



15.8312, 0.1689, 0.1172



19.7484, 0.2980, 0.3235



25.0420, 0.2041, 0.2547



2.6000, 0.2067, 0.2642



# Inverse Universe

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



26.7303, 0.3779, 0.1914



25.3240, 0.3889, 0.1916



59.0498, 0.4677, 0.4577



18.2264, 0.3173, 0.3108



13.2560, 0.3876, 0.1909

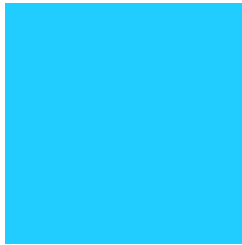


1.3070, 0.3784, 0.1858



# Previews

## White Background



This preview shows how the Yxy color 51.2060, 0.2087, 0.2639 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

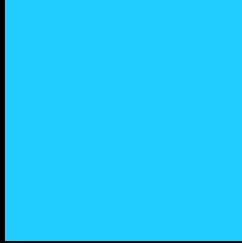
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 51.2060, 0.2087, 0.2639 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 51.2060, 0.2087, 0.2639**

## **Background**



This preview shows how black text looks on a background with the Yxy color 51.2060, 0.2087, 0.2639.



This preview shows how white text looks on a background with the Yxy color 51.2060, 0.2087, 0.2639.

# 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

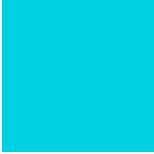
51.2060, 0.2087, 0.2639

### Protanopia

50.4674, 0.2656, 0.2633

### Deuteranopia

50.5533, 0.2530, 0.2481



## **Tritanopia**

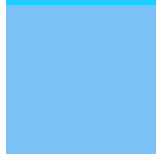
51.0919, 0.2181, 0.3050

# Trichromacy



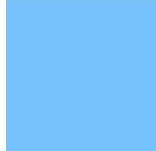
## Original Color

51.2060, 0.2087, 0.2639



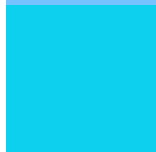
## Protanomaly

49.0047, 0.2343, 0.2618



## Deuteranomaly

49.2115, 0.2280, 0.2516



## Tritanomaly

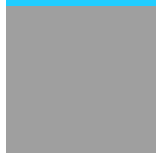
51.3043, 0.2143, 0.2893

# Monochromacy



## Original Color

51.2060, 0.2087, 0.2639



## Achromatopsia

34.6704, 0.3127, 0.3290



## Achromatomaly

38.4564, 0.2519, 0.3021

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 51.2060, 0.2087, 0.2639 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(33, 205, 255)` looks like.

```
.text, #text, p{  
    color:rgb(33, 205, 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(33, 205, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(33, 205, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 51.2060, 0.2087, 0.2639 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(33, 205, 255) }
```

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

```
.border{ border-color:rgb(33, 205, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(33, 205, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(33, 205, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(33, 205, 255);  
box-shadow:4px 4px 4px 4px rgb(33, 205,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 51.2060, 0.2087, 0.2639 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(33, 205, 255) }
```

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

```
.background{ background-color: rgb(33, 205,  
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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