

# Converting Colors

$Y_{xy}(54.7659, 0.2015, 0.2395)$

Have a look what the booklet for  
Yxy(54.7659, 0.2015, 0.2395)  
contains.

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# Color

**Yxy(52.6231, 0.2096, 0.2680)**

# Conversions

## Conversions Part 1

Format	Color
Hex	1ED0FF
RGB	30, 208, 255
RGB Percent	12%, 82%, 100%
CMY	0.8804, 0.1842, 0.0001
CMYK	0.88, 0.18, 0.00, 0.00
HSL	193°, 100%, 56%
HSV	193°, 88%, 100%
XYZ	41.1560, 52.6231, 102.5758
YIQ	160.1360, -121.1750, -23.1190

# Conversions

## Conversions Part 2

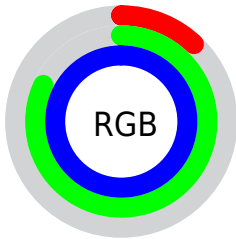
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	30, 129, 255
Decimal	2019583
CIE Lab	77.65, -25.40, -34.59
CIE LCh	78, 42.918, 233.709
Yxy	52.6231, 0.2096, 0.2680
Android (android.graphics.Color)	4280209663 (0xFF1ED0FF)
YUV	160.1360, 46.7680, -114.1293
Hunter-Lab	72.5418, -25.6776, -33.0582

# Details

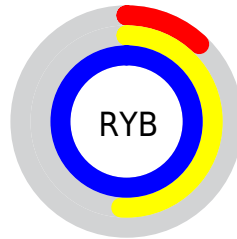
The Yxy color **52.6231, 0.2096, 0.2680** is a light color, and the websafe version is hex **00CCFF**. The color can be described as light washed cyan. A complement of this color would be **26.7228, 0.5890, 0.3564**, and the grayscale version is **35.1190, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.8049, 0.2450, 0.3288**, and **26.8597, 0.2038, 0.2536** is the 20% darker color. If you saturate the color by 10%, you get **49.8162, 0.2059, 0.2604**, and if you desaturate by 10%, it is **55.8269, 0.2152, 0.2757**.

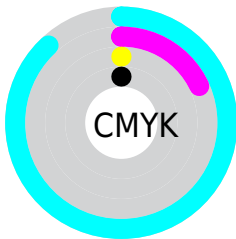
# Distribution



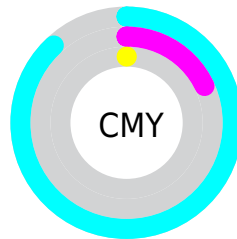
- Red (12%)
- Green (82%)
- Blue (100%)



- Red (12%)
- Yellow (51%)
- Blue (100%)



- Cyan (88%)
- Magenta (18%)
- Yellow (0%)
- Black (0%)




- Cyan (88%)
- Magenta (18%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 52.6231, 0.2096, 0.2680 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 52.6231, 0.2096, 0.2680 by changing the saturation by 10% instead.




 52.6231, 0.2096,  
0.2680


 52.6231, 0.2096,  
0.2680


 396.8374, 0.2574,  
0.2987

 37.5020, 0.1989,  
0.2605

 94.0495, 0.2261,  
0.2791


 25.5964, 0.1858,  
0.2511


 121.1236, 0.2325,  
0.2833

 16.5219, 0.1696,  
0.2388


 152.9508, 0.2381,  
0.2868


 9.8942, 0.1492,  
0.2225

 189.9156, 0.2430,  
0.2899

 5.3289, 0.1230,  
0.2000

 232.4022, 0.2472,  
0.2925

 2.4415, 0.0895,  
0.1677

 280.7951, 0.2510,

 0.8471, 0.0270,

0.2948

0.1235

335.4787, 0.2544,  
0.2969

0.0000, 0.0000,  
0.0000

52.6231, 0.2096,  
0.2680

52.6231, 0.2096,  
0.2680

49.8162, 0.2059,  
0.2604

55.8269, 0.2152,  
0.2757

49.2929, 0.2052,  
0.2589

59.4907, 0.2227,  
0.2835

63.6671, 0.2322,  
0.2912

68.3991, 0.2435,  
0.2987

73.7248, 0.2562,  
0.3058

■ 79.6783, 0.2702,  
0.3126

■ 86.2911, 0.2849,  
0.3189

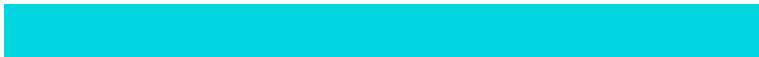
■ 93.5920, 0.3002,  
0.3247

■ 99.9985, 0.3127,  
0.3290

# Harmonies

## Analogous

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



52.6231, 0.2201, 0.3149



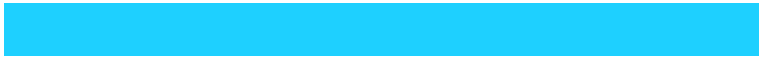
52.6231, 0.2096, 0.2680



52.6231, 0.2229, 0.2429

# Triad

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



52.6231, 0.2096, 0.2680



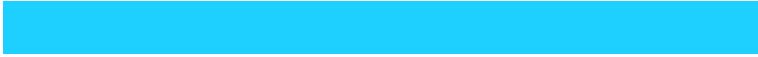
52.6231, 0.3701, 0.2881



52.6231, 0.3616, 0.4338

# Complementary

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



52.6231, 0.2096, 0.2680



26.7228, 0.5890, 0.3564

# 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.



52.6231, 0.4070, 0.4136



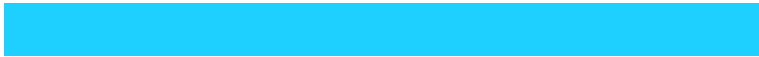
52.6231, 0.2096, 0.2680



52.6231, 0.4143, 0.3299

# Square

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



52.6231, 0.2096, 0.2680



52.6231, 0.3116, 0.2561



52.6231, 0.4276, 0.3746

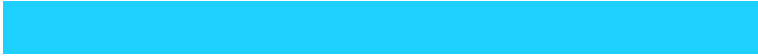


52.6231, 0.3055, 0.4205



# Rectangle

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



52.6231, 0.2096, 0.2680



52.6231, 0.2442, 0.2385



52.6231, 0.4276, 0.3746



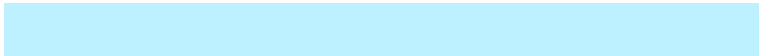
52.6231, 0.3787, 0.4301

# Sweetspot

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



52.6249, 0.2096, 0.2680



80.9894, 0.2731, 0.3139



72.3025, 0.2923, 0.5623



16.8680, 0.2681, 0.3117



0.0000, 0.0000, 0.0000

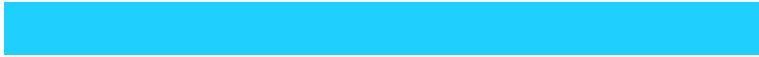


21.4041, 0.3127, 0.3290

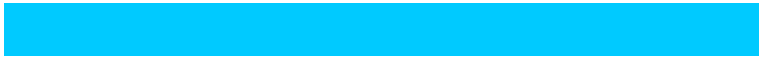


# Same Dimension

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



52.6249, 0.2096, 0.2680



49.3028, 0.2052, 0.2589



16.2073, 0.1692, 0.1195



19.7983, 0.2980, 0.3239



25.9853, 0.2056, 0.2601



2.6842, 0.2080, 0.2689



# Inverse Universe

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



26.7647, 0.3741, 0.1886



25.5083, 0.3835, 0.1886



57.1616, 0.4724, 0.4547



18.2314, 0.3170, 0.3104



13.3512, 0.3823, 0.1880

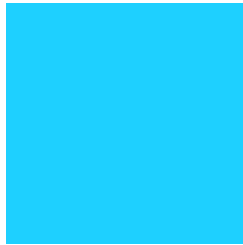


1.3155, 0.3739, 0.1833



# Previews

## White Background



This preview shows how the Yxy color 52.6231, 0.2096, 0.2680 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

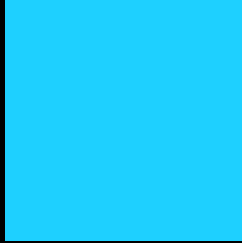
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 52.6231, 0.2096, 0.2680 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

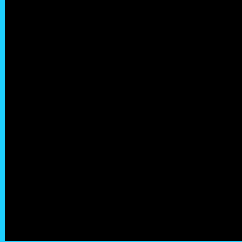
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 52.6231, 0.2096, 0.2680**

## **Background**



This preview shows how black text looks on a background with the Yxy color 52.6231, 0.2096, 0.2680.



This preview shows how white text looks on a background with the Yxy color 52.6231, 0.2096, 0.2680.

# 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

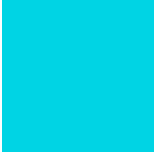
52.6078, 0.2095, 0.2679

### Protanopia

51.6048, 0.2685, 0.2672

### Deuteranopia

51.8444, 0.2558, 0.2511



## Tritanopia

52.6884, 0.2185, 0.3066

# Trichromacy



## Original Color

52.6078, 0.2095, 0.2679



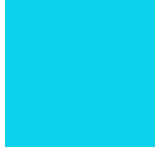
## Protanomaly

49.9079, 0.2358, 0.2656



## Deuteranomaly

50.2433, 0.2295, 0.2544



## Tritanomaly

52.8327, 0.2150, 0.2923

# Monochromacy



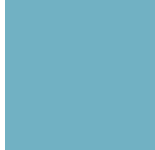
## Original Color

52.6078, 0.2095, 0.2679



## Achromatopsia

35.1533, 0.3127, 0.3290



## Achromatomaly

38.8951, 0.2516, 0.3022

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 52.6231, 0.2096, 0.2680 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, 208, 255)` looks like.

```
.text, #text, p{  
    color:rgb(30, 208, 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(30, 208, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(30, 208, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 52.6231, 0.2096, 0.2680 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, 208, 255) }
```

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

```
.border{ border-color:rgb(30, 208, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(30, 208, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(30, 208, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(30, 208, 255);  
box-shadow:4px 4px 4px 4px rgb(30, 208,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 52.6231, 0.2096, 0.2680 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(30, 208, 255) }
```

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

```
.background{ background-color: rgb(30, 208,  
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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