

# Converting Colors

$Y_{xy}(54.5281, 0.2135, 0.2725)$

Have a look what the booklet for  
Yxy(54.5281, 0.2135, 0.2725)  
contains.

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# Color

**Yxy(54.5123, 0.2134, 0.2724)**

# Conversions

## Conversions Part 1

Format	Color
Hex	33D3FF
RGB	51, 211, 255
RGB Percent	20%, 83%, 100%
CMY	0.8007, 0.1725, 0.0000
CMYK	0.80, 0.17, 0.00, 0.00
HSL	193°, 100%, 60%
HSV	193°, 80%, 100%
XYZ	42.7053, 54.5123, 102.9010
YIQ	168.1760, -109.4840, -20.2360

# Conversions

## Conversions Part 2

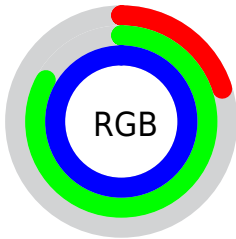
<b>Format</b>	<b>Color</b>
<b>RYB</b>	51, 141, 255
Decimal	3396607
CIELab	78.76, -25.49, -32.89
CIELCh	79, 41.610, 232.226
Yxy	54.5123, 0.2134, 0.2724
Android (android.graphics.Color)	4281586687 (0xFF33D3FF)
YUV	168.1760, 42.8042, -102.7634
Hunter-Lab	73.8324, -25.9609, -30.9503

# Details

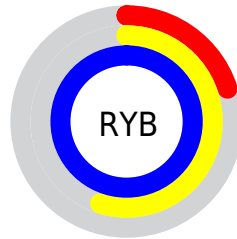
The Yxy color **54.5123, 0.2134, 0.2724** is a light color, and the websafe version is hex **00CCFF**. The color can be described as light washed cyan. A complement of this color would be **29.6470, 0.5601, 0.3617**, and the grayscale version is **39.0493, 0.3127, 0.3290**.

A 20% lighter version of the original color is **83.4858, 0.2482, 0.3288**, and **27.8542, 0.2053, 0.2589** is the 20% darker color. If you saturate the color by 10%, you get **51.3406, 0.2082, 0.2644**, and if you desaturate by 10%, it is **58.1397, 0.2207, 0.2805**.

# Distribution



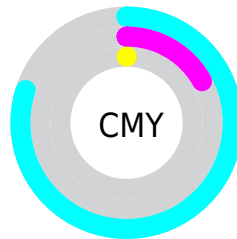
- Red (20%)
- Green (83%)
- Blue (100%)



- Red (20%)
- Yellow (55%)
- Blue (100%)



- Cyan (80%)
- Magenta (17%)
- Yellow (0%)
- Black (0%)




- Cyan (80%)
- Magenta (17%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 54.5123, 0.2134, 0.2724 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 54.5123, 0.2134, 0.2724 by changing the saturation by 10% instead.





 54.5123, 0.2134,  
0.2724


 54.5123, 0.2134,  
0.2724


404.0606, 0.2593,  
0.3008


 39.0114, 0.2031,  
0.2655


 96.8260, 0.2292,  
0.2826

 26.7686, 0.1906,  
0.2567


 124.4076, 0.2354,  
0.2865

 17.3995, 0.1750,  
0.2454


 156.7849, 0.2408,  
0.2898

 10.5197, 0.1553,  
0.2302

 194.3423, 0.2454,  
0.2926

 5.7449, 0.1300,  
0.2092

237.4642, 0.2495,  
0.2951

 2.6906, 0.0972,  
0.1789

286.5349, 0.2532,

 0.9724, 0.0419,

0.2972

0.1360

341.9389, 0.2564,  
0.2991

■ 0.0000, 0.0000,  
0.0000

■ 54.5123, 0.2134,  
0.2724

■ 54.5123, 0.2134,  
0.2724

■ 51.3406, 0.2082,  
0.2644

■ 58.1397, 0.2207,  
0.2805

■ 48.5572, 0.2046,  
0.2566

■ 62.2753, 0.2299,  
0.2884

■ 66.9637, 0.2409,  
0.2962

■ 72.2438, 0.2534,  
0.3037

■ 78.1508, 0.2672,  
0.3107

■ 84.7164, 0.2819,  
0.3173

■ 91.9703, 0.2971,  
0.3234

99.9399, 0.3126,  
0.3290

100.0000, 0.3127,  
0.3290

# Harmonies

## Analogous

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



54.5123, 0.2248, 0.3184



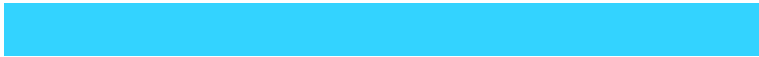
54.5123, 0.2134, 0.2724



54.5123, 0.2251, 0.2469

# Triad

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



54.5123, 0.2134, 0.2724



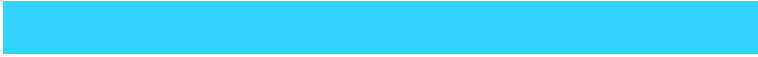
54.5123, 0.3651, 0.2879



54.5123, 0.3624, 0.4290

# Complementary

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



54.5123, 0.2134, 0.2724



29.6470, 0.5601, 0.3617

# 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.



54.5123, 0.4050, 0.4089



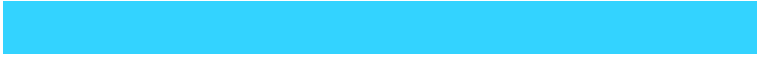
54.5123, 0.2134, 0.2724



54.5123, 0.4085, 0.3280

# Square

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



54.5123, 0.2134, 0.2724



54.5123, 0.3089, 0.2577



54.5123, 0.4230, 0.3711



54.5123, 0.3087, 0.4178



# Rectangle

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



54.5123, 0.2134, 0.2724



54.5123, 0.2451, 0.2419



54.5123, 0.4230, 0.3711



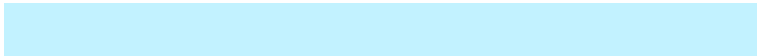
54.5123, 0.3786, 0.4252

# Sweetspot

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



54.5125, 0.2134, 0.2724



82.0570, 0.2760, 0.3148



72.9857, 0.2911, 0.5443



17.0666, 0.2708, 0.3124



0.0000, 0.0000, 0.0000

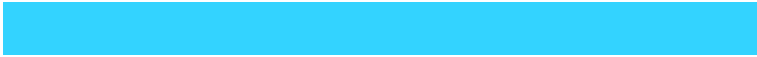


21.4041, 0.3127, 0.3290

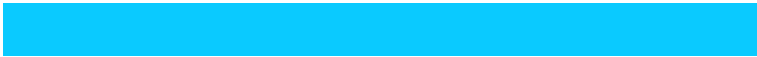


# Same Dimension

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



54.5125, 0.2134, 0.2724



49.6487, 0.2059, 0.2598



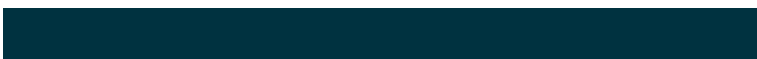
19.5232, 0.1778, 0.1377



19.7781, 0.2980, 0.3238



25.6001, 0.2050, 0.2579



2.6499, 0.2075, 0.2670



# Inverse Universe

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



28.3153, 0.3692, 0.1930



25.7580, 0.3825, 0.1893



59.9675, 0.4609, 0.4526



18.2294, 0.3171, 0.3105



13.3123, 0.3844, 0.1891

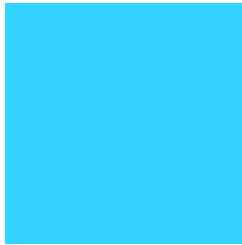


1.3120, 0.3757, 0.1843



# Previews

## White Background



This preview shows how the Yxy color 54.5123, 0.2134, 0.2724 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

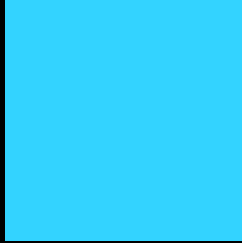
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 54.5123, 0.2134, 0.2724 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

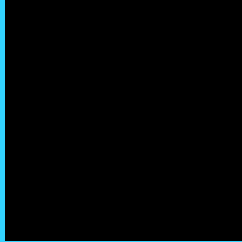
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 54.5123, 0.2134, 0.2724**

## **Background**



This preview shows how black text looks on a background with the Yxy color 54.5123, 0.2134, 0.2724.



This preview shows how white text looks on a background with the Yxy color 54.5123, 0.2134, 0.2724.

# 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

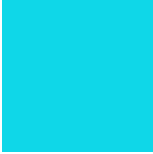
54.5123, 0.2134, 0.2724

### Protanopia

53.4362, 0.2709, 0.2703

### Deuteranopia

53.8287, 0.2601, 0.2554



## Tritanopia

54.5286, 0.2190, 0.3057

# Trichromacy



## Original Color

54.5123, 0.2134, 0.2724



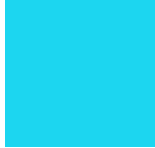
## Protanomaly

52.1103, 0.2411, 0.2692



## Deuteranomaly

52.4335, 0.2354, 0.2592



## Tritanomaly

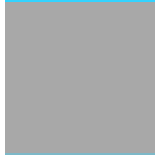
54.6313, 0.2167, 0.2941

# Monochromacy



## Original Color

54.5123, 0.2134, 0.2724



## Achromatopsia

39.1572, 0.3127, 0.3290



## Achromatomaly

42.8111, 0.2576, 0.3061

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 54.5123, 0.2134, 0.2724 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(51, 211, 255)` looks like.

```
.text, #text, p{  
    color:rgb(51, 211, 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(51, 211, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(51, 211, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 54.5123, 0.2134, 0.2724 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(51, 211, 255) }
```

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

```
.border{ border-color:rgb(51, 211, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(51, 211, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(51, 211, 255); -webkit-box-shadow:4px 4px 4px 4px rgb(51, 211, 255); box-shadow:4px 4px 4px 4px rgb(51, 211, 255) }
```



# Background

The CSS property to change the background color of an element to Yxy 54.5123, 0.2134, 0.2724 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(51, 211, 255) }
```

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

```
.background{ background-color: rgb(51, 211,  
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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