

# Converting Colors

$Y_{xy}(56.2396, 0.2435, 0.2775)$

Have a look what the booklet for  
Yxy(56.2396, 0.2435, 0.2775)  
contains.

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# Color

**Yxy(56.2383, 0.2435, 0.2775)**

# Conversions

## Conversions Part 1

Format	Color
Hex	89CEF8
RGB	137, 206, 248
RGB Percent	54%, 81%, 97%
CMY	0.4623, 0.1922, 0.0274
CMYK	0.45, 0.17, 0.00, 0.03
HSL	203°, 89%, 76%
HSV	203°, 45%, 97%
XYZ	49.3478, 56.2383, 97.0744
YIQ	190.1570, -54.6060, -1.5660

# Conversions

## Conversions Part 2

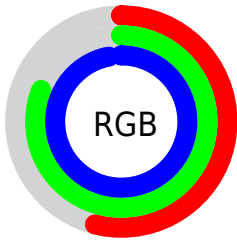
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	137, 180, 248
Decimal	9031416
CIE Lab	79.75, -10.85, -27.41
CIE LCh	80, 29.475, 248.406
Yxy	56.2383, 0.2435, 0.2775
Android (android.graphics.Color)	4287221496 (0xFF89CEF8)
YUV	190.1570, 28.5166, -46.6187
Hunter-Lab	74.9922, -13.7763, -24.2540

# Details

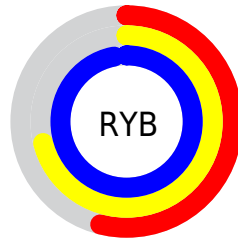
The Yxy color **56.2383, 0.2435, 0.2775** is a light color, and the websafe version is hex **99CCFF**. A complement of this color would be **54.0751, 0.4111, 0.3742**, and the grayscale version is **51.4602, 0.3127, 0.3290**.

A 20% lighter version of the original color is **90.3421, 0.2778, 0.3289**, and **27.8803, 0.2269, 0.2651** is the 20% darker color. If you saturate the color by 10%, you get **49.9856, 0.2295, 0.2635**, and if you desaturate by 10%, it is **63.2479, 0.2585, 0.2907**.

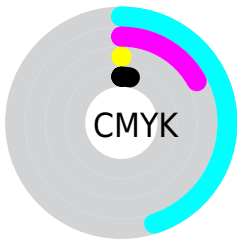
# Distribution



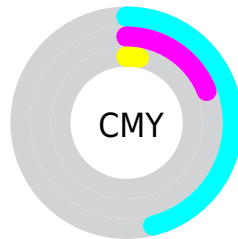
- Red (54%)
- Green (81%)
- Blue (97%)



- Red (54%)
- Yellow (71%)
- Blue (97%)



- Cyan (45%)
- Magenta (17%)
- Yellow (0%)
- Black (3%)



- Cyan (46%)
- Magenta (19%)
- Yellow (3%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 56.2383, 0.2435, 0.2775 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 56.2383, 0.2435, 0.2775 by changing the saturation by 10% instead.



■ 56.2383, 0.2435,  
0.2775

■ 56.2383, 0.2435,  
0.2775

410.5889, 0.2760,  
0.3025

■ 40.3940, 0.2360,  
0.2715

■ 99.3529, 0.2548,  
0.2864

■ 27.8459, 0.2268,  
0.2641

■ 127.3920, 0.2592,  
0.2898

■ 18.2095, 0.2151,  
0.2544

160.2649, 0.2630,  
0.2927

■ 11.1005, 0.1999,  
0.2416

198.3559, 0.2663,  
0.2952

■ 6.1345, 0.1796,  
0.2239

242.0494, 0.2692,  
0.2974

■ 2.9270, 0.1513,  
0.1982

291.7298, 0.2717,

■ 1.0938, 0.1104,

0.2993

0.1587

347.7815, 0.2740,  
0.3010

0.0000, 0.0000,  
0.0000

56.2383, 0.2435,  
0.2775

56.2383, 0.2435,  
0.2775

49.9856, 0.2295,  
0.2635

63.2479, 0.2585,  
0.2907

44.4453, 0.2169,  
0.2489

71.0428, 0.2740,  
0.3030

39.5770, 0.2062,  
0.2341

79.6575, 0.2898,  
0.3143

35.3318, 0.1975,  
0.2193

89.1220, 0.3054,  
0.3246

31.6509, 0.1909,  
0.2048

98.2826, 0.3169,  
0.3338

■ 29.8889, 0.1882,  
0.1973

■ 99.5584, 0.3168,  
0.3357

# Harmonies

## Analogous

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



56.2383, 0.2429, 0.3037



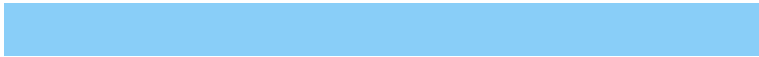
56.2383, 0.2435, 0.2775



56.2383, 0.2612, 0.2664

# Triad

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



56.2383, 0.2435, 0.2775



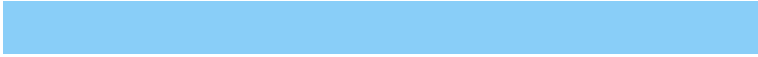
56.2383, 0.3677, 0.3152



56.2383, 0.3289, 0.3965

# Complementary

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



56.2383, 0.2435, 0.2775



54.0751, 0.4111, 0.3742

# 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.



56.2383, 0.3642, 0.3954



56.2383, 0.2435, 0.2775



56.2383, 0.3880, 0.3467

# Square

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



56.2383, 0.2435, 0.2775



56.2383, 0.3321, 0.2881



56.2383, 0.3864, 0.3761



56.2383, 0.2906, 0.3757



# Rectangle

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



56.2383, 0.2435, 0.2775



56.2383, 0.2811, 0.2676



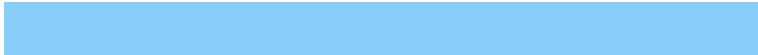
56.2383, 0.3864, 0.3761



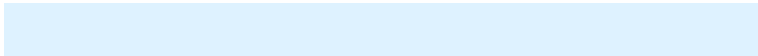
56.2383, 0.3415, 0.3986

# Sweetspot

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



56.2404, 0.2435, 0.2775



86.4884, 0.2925, 0.3161



75.6804, 0.2861, 0.4170



18.0543, 0.2890, 0.3138



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

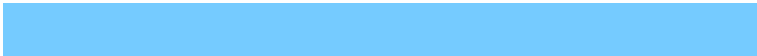


# Same Dimension

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



56.2404, 0.2435, 0.2775



53.6402, 0.2304, 0.2644



34.5351, 0.2312, 0.2074



18.4384, 0.2980, 0.3198



16.4226, 0.1888, 0.1996



1.7253, 0.1935, 0.2167



# Inverse Universe

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



42.3420, 0.3573, 0.2572



38.3549, 0.3709, 0.2436



80.1787, 0.3854, 0.4265



17.4065, 0.3196, 0.3144



12.0688, 0.4457, 0.2229

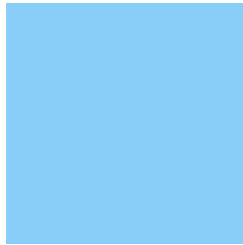


1.1384, 0.4268, 0.2125



# Previews

## White Background



This preview shows how the Yxy color 56.2383, 0.2435, 0.2775 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

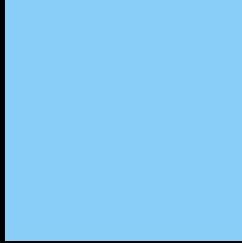
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 56.2383, 0.2435, 0.2775 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

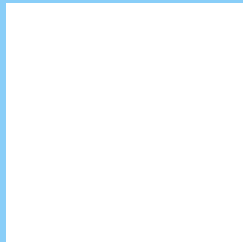
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 56.2383, 0.2435, 0.2775**

## **Background**



This preview shows how black text looks on a background with the Yxy color 56.2383, 0.2435, 0.2775.



This preview shows how white text looks on a background with the Yxy color 56.2383, 0.2435, 0.2775.

# 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

56.2383, 0.2435, 0.2775

### Protanopia

55.8863, 0.2760, 0.2768

### Deuteranopia

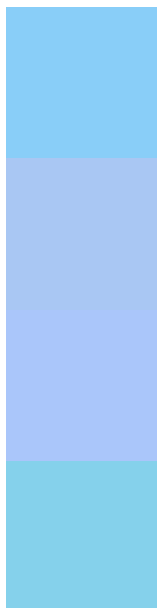
55.7963, 0.2699, 0.2631



## Tritanopia

56.4645, 0.2517, 0.3071

# Trichromacy



**Original Color**

56.2383, 0.2435, 0.2775

**Protanomaly**

55.7529, 0.2629, 0.2767

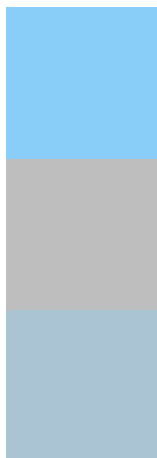
**Deuteranomaly**

55.8363, 0.2595, 0.2681

**Tritanomaly**

56.5856, 0.2484, 0.2961

# Monochromacy



**Original Color**

56.2383, 0.2435, 0.2775

**Achromatopsia**

51.4918, 0.3127, 0.3290

**Achromatomaly**

52.8409, 0.2834, 0.3101

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 56.2383, 0.2435, 0.2775 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(137, 206, 248)` looks like.

```
.text, #text, p{  
    color:rgb(137, 206, 248)  
}
```

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(137, 206, 248) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(137, 206, 248) }
```

## Border

The CSS property to change the border of an element to Yxy 56.2383, 0.2435, 0.2775 is called "border". The border property can be set on classes, ids or directly on the HTML element.

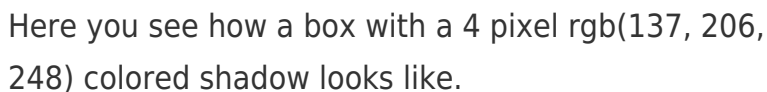
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(137, 206, 248) }
```

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

```
.border{ border-color:rgb(137, 206, 248) }
```

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



Here you see how a box with a 4 pixel `rgb(137, 206, 248)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(137, 206, 248); -webkit-box-shadow:4px 4px 4px 4px rgb(137, 206, 248); box-shadow:4px 4px 4px 4px rgb(137, 206, 248) }
```



# Background

The CSS property to change the background color of an element to Yxy 56.2383, 0.2435, 0.2775 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(137, 206, 248) }
```

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

```
.background{ background-color: rgb(137,  
206, 248) }
```

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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