

# Converting Colors

$Y_{xy}(58.8035, 0.2402, 0.2800)$

Have a look what the booklet for  
Yxy(58.8035, 0.2402, 0.2800)  
contains.

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# Color

**Yxy(58.9405, 0.2401, 0.2804)**

# Conversions

## Conversions Part 1

Format	Color
Hex	83D4FC
RGB	131, 212, 252
RGB Percent	51%, 83%, 99%
CMY	0.4863, 0.1686, 0.0119
CMYK	0.48, 0.16, 0.00, 0.01
HSL	200°, 95%, 75%
HSV	200°, 48%, 99%
XYZ	50.4694, 58.9405, 100.7916
YIQ	192.3410, -61.1160, -4.7320

# Conversions

## Conversions Part 2

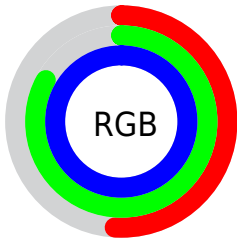
<b>Format</b>	<b>Color</b>
<b>RYB</b>	131, 180, 252
Decimal	8639740
CIELab	81.26, -14.33, -27.23
CIELCh	81, 30.772, 242.239
Yxy	58.9405, 0.2401, 0.2804
Android (android.graphics.Color)	4286829820 (0xFF83D4FC)
YUV	192.3410, 29.4119, -53.7961
Hunter-Lab	76.7727, -17.0087, -24.0984

# Details

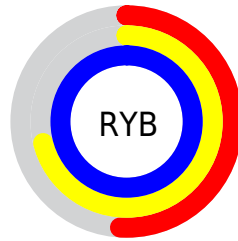
The Yxy color **58.9405, 0.2401, 0.2804** is a light color, and the websafe version is hex **66CCFF**. A complement of this color would be **51.4396, 0.4244, 0.3713**, and the grayscale version is **52.7728, 0.3127, 0.3290**.

A 20% lighter version of the original color is **89.5588, 0.2747, 0.3289**, and **29.3937, 0.2230, 0.2674** is the 20% darker color. If you saturate the color by 10%, you get **53.1143, 0.2272, 0.2682**, and if you desaturate by 10%, it is **65.4748, 0.2542, 0.2921**.

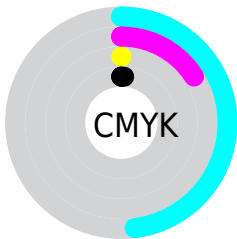
# Distribution



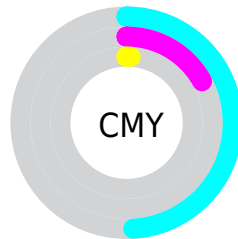
- Red (51%)
- Green (83%)
- Blue (99%)



- Red (51%)
- Yellow (71%)
- Blue (99%)



- Cyan (48%)
- Magenta (16%)
- Yellow (0%)
- Black (1%)




- Cyan (49%)
- Magenta (17%)
- Yellow (1%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 58.9405, 0.2401, 0.2804 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 58.9405, 0.2401, 0.2804 by changing the saturation by 10% instead.




 58.9405, 0.2401,  
0.2804


 58.9405, 0.2401,  
0.2804


 420.6814, 0.2739,  
0.3040


 42.5652, 0.2324,  
0.2748

 103.2912, 0.2518,  
0.2888


 29.5441, 0.2230,  
0.2677


 132.0354, 0.2564,  
0.2920


 19.4928, 0.2111,  
0.2586


 165.6713, 0.2603,  
0.2948

 12.0269, 0.1959,  
0.2466

 204.5835, 0.2637,  
0.2971

 6.7620, 0.1756,  
0.2299

 249.1561, 0.2667,  
0.2992

 3.3137, 0.1477,  
0.2057

 299.7737, 0.2694,

 1.2976, 0.1084,

0.3010

0.1685

356.8207, 0.2717,  
0.3026

0.1394, 0.0000,  
0.0524

0.0000, 0.0000,  
0.0000

58.9405, 0.2401,  
0.2804

58.9405, 0.2401,  
0.2804

53.1143, 0.2272,  
0.2682

65.4748, 0.2542,  
0.2921

47.9504, 0.2159,  
0.2555

72.7462, 0.2692,  
0.3030

43.4065, 0.2065,  
0.2427

80.7897, 0.2847,  
0.3131

39.4309, 0.1993,  
0.2299

89.6356, 0.3003,  
0.3223

■ 35.9544, 0.1940,  
0.2174

■ 98.9352, 0.3145,  
0.3306

■ 35.3046, 0.1931,  
0.2150

■ 99.8068, 0.3145,  
0.3319

# Harmonies

## Analogous

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



58.9405, 0.2432, 0.3101



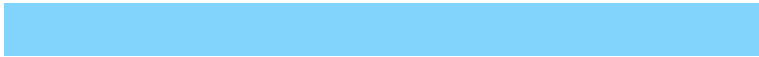
58.9405, 0.2401, 0.2804



58.9405, 0.2548, 0.2657

# Triad

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



58.9405, 0.2401, 0.2804



58.9405, 0.3627, 0.3086



58.9405, 0.3373, 0.4001

# Complementary

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



58.9405, 0.2401, 0.2804



51.4396, 0.4244, 0.3713

# 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.



58.9405, 0.3717, 0.3944



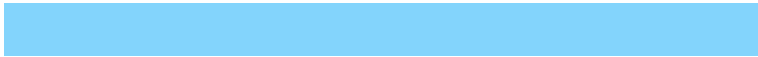
58.9405, 0.2401, 0.2804



58.9405, 0.3876, 0.3404

# Square

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



58.9405, 0.2401, 0.2804



58.9405, 0.3242, 0.2824



58.9405, 0.3907, 0.3716



58.9405, 0.2977, 0.3832



# Rectangle

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



58.9405, 0.2401, 0.2804



58.9405, 0.2733, 0.2649



58.9405, 0.3907, 0.3716



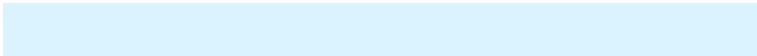
58.9405, 0.3499, 0.4006

# Sweetspot

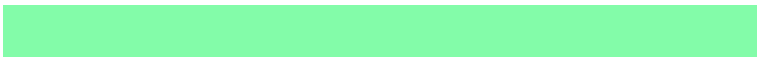
The Sweet Spot groups the original color and five complimentary colors.



58.9427, 0.2401, 0.2804



86.5515, 0.2909, 0.3169



77.3066, 0.2876, 0.4329



18.1136, 0.2876, 0.3148



0.0000, 0.0000, 0.0000

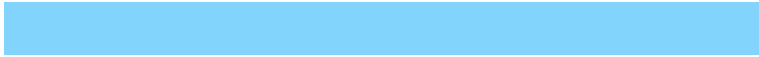


21.4041, 0.3127, 0.3290

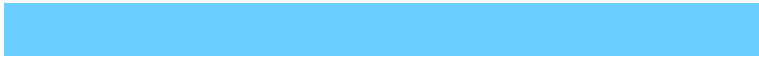


# Same Dimension

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



58.9427, 0.2401, 0.2804



54.5626, 0.2272, 0.2681



34.6899, 0.2258, 0.2043



18.5856, 0.2980, 0.3210



18.6758, 0.1936, 0.2171



1.9238, 0.1978, 0.2320



# Inverse Universe

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



41.6751, 0.3559, 0.2466



36.2594, 0.3688, 0.2319



78.8096, 0.3936, 0.4280



17.4213, 0.3189, 0.3132



12.2962, 0.4264, 0.2123

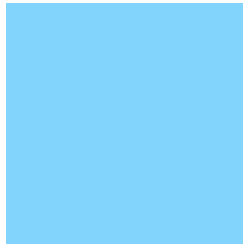


1.1584, 0.4105, 0.2035



# Previews

## White Background



This preview shows how the Yxy color 58.9405, 0.2401, 0.2804 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

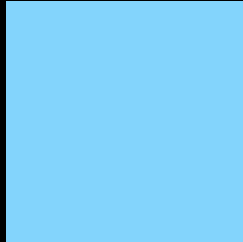
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 58.9405, 0.2401, 0.2804 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

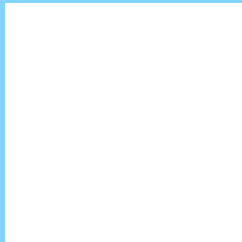
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 58.9405, 0.2401, 0.2804**

## **Background**



This preview shows how black text looks on a background with the Yxy color 58.9405, 0.2401, 0.2804.



This preview shows how white text looks on a background with the Yxy color 58.9405, 0.2401, 0.2804.

# 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

58.9405, 0.2401, 0.2804

### Protanopia

58.3943, 0.2773, 0.2788

### Deuteranopia

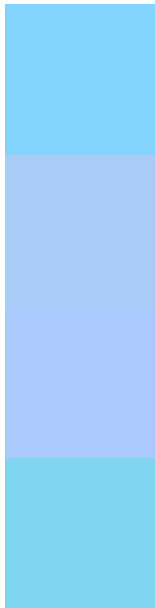
58.3590, 0.2706, 0.2643



## Tritanopia

58.8440, 0.2469, 0.3061

# Trichromacy



**Original Color**

58.9405, 0.2401, 0.2804

**Protanomaly**

58.2746, 0.2619, 0.2796

**Deuteranomaly**

57.9429, 0.2579, 0.2688

**Tritanomaly**

58.8964, 0.2443, 0.2965

# Monochromacy



**Original Color**

58.9405, 0.2401, 0.2804

**Achromatopsia**

52.7115, 0.3127, 0.3290

**Achromatomaly**

54.2479, 0.2810, 0.3102

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 58.9405, 0.2401, 0.2804 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(131, 212, 252)` looks like.

```
.text, #text, p{  
    color:rgb(131, 212, 252)  
}
```

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(131, 212, 252) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(131, 212, 252) }
```

## Border

The CSS property to change the border of an element to Yxy 58.9405, 0.2401, 0.2804 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(131, 212, 252) }
```

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

```
.border{ border-color:rgb(131, 212, 252) }
```

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

Here you see how a box with a 4 pixel `rgb(131, 212, 252)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(131, 212, 252); -webkit-box-  
shadow:4px 4px 4px 4px rgb(131, 212, 252);  
box-shadow:4px 4px 4px 4px rgb(131, 212,  
252) }
```



# Background

The CSS property to change the background color of an element to Yxy 58.9405, 0.2401, 0.2804 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(131, 212, 252) }
```

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

```
.background{ background-color: rgb(131,  
212, 252) }
```

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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