

# Converting Colors

$Yxy(82.8271, 0.2812, 0.3142)$

Have a look what the booklet for  
Yxy(82.8271, 0.2812, 0.3142)  
contains.

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# Color

**Yxy(82.8271, 0.2812, 0.3142)**

# Conversions

## Conversions Part 1

Format	Color
Hex	CBF1FF
RGB	203, 241, 255
RGB Percent	80%, 95%, 100%
CMY	0.2039, 0.0549, 0.0001
CMYK	0.20, 0.05, 0.00, 0.00
HSL	196°, 100%, 90%
HSV	196°, 20%, 100%
XYZ	74.1279, 82.8271, 106.6577
YIQ	231.2340, -27.1420, -3.7020

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	203, 225, 255
Decimal	13365759
CIE Lab	92.94, -9.32, -10.80
CIE LCh	93, 14.270, 229.204
Yxy	82.8271, 0.2812, 0.3142
Android (android.graphics.Color)	4291555839 (0xFFCBF1FF)
YUV	231.2340, 11.7166, -24.7612
Hunter-Lab	91.0094, -13.8768, -5.7778

# Details

The Yxy color **82.8271, 0.2812, 0.3142** is a light color, and the websafe version is hex **CCFFFF**. A complement of this color would be **75.1656, 0.3508, 0.3433**, and the grayscale version is **80.0208, 0.3127, 0.3290**.

A 20% lighter version of the original color is **100.0000, 0.3127, 0.3290**, and **45.0710, 0.2744, 0.3111** is the 20% darker color. If you saturate the color by 10%, you get **75.5627, 0.2662, 0.3059**, and if you desaturate by 10%, it is **90.8393, 0.2966, 0.3218**.

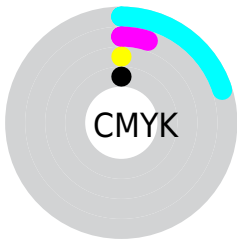
# Distribution



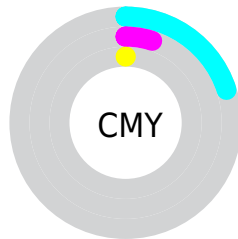
- Red (80%)
- Green (95%)
- Blue (100%)



- Red (80%)
- Yellow (88%)
- Blue (100%)



- Cyan (20%)
- Magenta (5%)
- Yellow (0%)
- Black (0%)



- Cyan (20%)
- Magenta (5%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 82.8271, 0.2812, 0.3142 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 82.8271, 0.2812, 0.3142 by changing the saturation by 10% instead.



82.8271, 0.2812,  
0.3142

82.8271, 0.2812,  
0.3142

504.4101, 0.2953,  
0.3210

62.0475, 0.2781,  
0.3126

137.3333, 0.2860,  
0.3166

45.0711, 0.2743,  
0.3107

171.8287, 0.2879,  
0.3175

31.5134, 0.2696,  
0.3083

211.6648, 0.2895,  
0.3183

20.9901, 0.2636,  
0.3051

257.2260, 0.2910,  
0.3190

13.1168, 0.2556,  
0.3008

308.8968, 0.2922,  
0.3196

7.5090, 0.2446,  
0.2947

367.0615, 0.2934,

3.7824, 0.2285,

0.3201

0.2854

432.1044, 0.2944,  
0.3206

■ 1.5526, 0.2028,  
0.2693

■ 0.3253, 0.0536,  
0.2135

■ 82.8271, 0.2812,  
0.3142

■ 82.8271, 0.2812,  
0.3142

■ 75.5627, 0.2662,  
0.3059

■ 90.8393, 0.2966,  
0.3218

■ 69.0054, 0.2520,  
0.2970

99.6175, 0.3121,  
0.3288

■ 63.1259, 0.2388,  
0.2875

99.9978, 0.3127,  
0.3290

■ 57.8883, 0.2272,  
0.2776

■ 53.2525, 0.2172,  
0.2675

■ 49.1731, 0.2093,  
0.2573

■ 45.5959, 0.2034,  
0.2471

■ 42.5469, 0.1993,  
0.2375

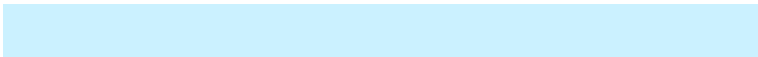
# Harmonies

## Analogous

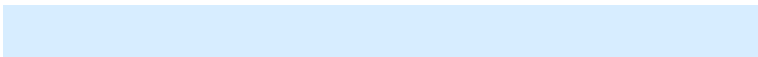
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



82.8271, 0.2862, 0.3286



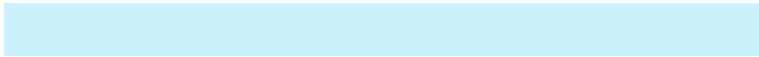
82.8271, 0.2812, 0.3142



82.8271, 0.2844, 0.3044

# Triad

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



82.8271, 0.2812, 0.3142



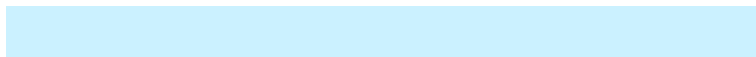
82.8271, 0.3271, 0.3150



82.8271, 0.3302, 0.3580

# Complementary

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



82.8271, 0.2812, 0.3142



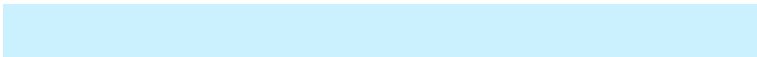
75.1656, 0.3508, 0.3433

# 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.



82.8271, 0.3417, 0.3534



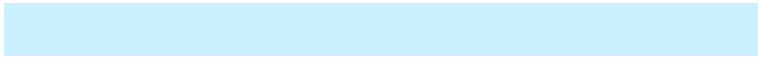
82.8271, 0.2812, 0.3142



82.8271, 0.3399, 0.3285

# Square

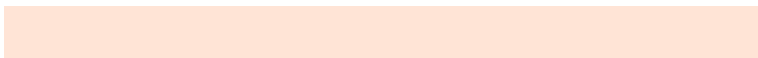
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



82.8271, 0.2812, 0.3142



82.8271, 0.3105, 0.3052



82.8271, 0.3453, 0.3425

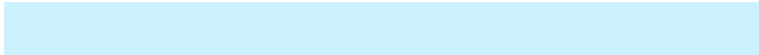


82.8271, 0.3142, 0.3545



# Rectangle

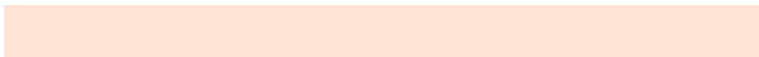
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



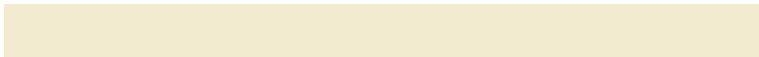
82.8271, 0.2812, 0.3142



82.8271, 0.2907, 0.3015



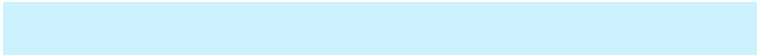
82.8271, 0.3453, 0.3425



82.8271, 0.3347, 0.3573

# Sweetspot

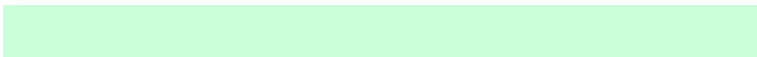
The Sweet Spot groups the original color and five complimentary colors.



82.8305, 0.2812, 0.3142



94.6194, 0.3034, 0.3250



89.1962, 0.3024, 0.3701



20.1307, 0.3024, 0.3245



0.0000, 0.0000, 0.0000

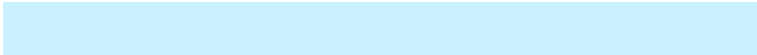


21.4041, 0.3127, 0.3290

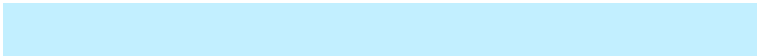


# Same Dimension

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



82.8305, 0.2812, 0.3142



80.1422, 0.2757, 0.3113



68.5769, 0.2793, 0.2859



19.6077, 0.2980, 0.3225



22.4979, 0.1998, 0.2391



2.3710, 0.2030, 0.2506



# Inverse Universe

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



70.3149, 0.3250, 0.2912



65.9610, 0.3276, 0.2843



89.5702, 0.3458, 0.3687



18.2122, 0.3179, 0.3118



12.9991, 0.4032, 0.1995

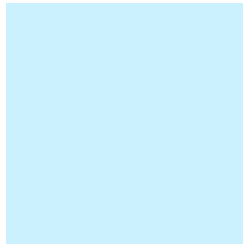


1.2839, 0.3916, 0.1931



# Previews

## White Background



This preview shows how the Yxy color 82.8271, 0.2812, 0.3142 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

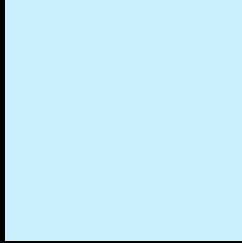
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 82.8271, 0.2812, 0.3142 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

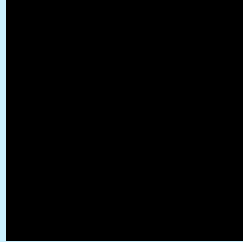
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

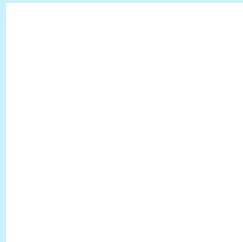
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 82.8271, 0.2812, 0.3142**

## **Background**



This preview shows how black text looks on a background with the Yxy color 82.8271, 0.2812, 0.3142.



This preview shows how white text looks on a background with the Yxy color 82.8271, 0.2812, 0.3142.

# 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

82.8271, 0.2812, 0.3142

### Protanopia

82.6724, 0.3029, 0.3118

### Deuteranopia

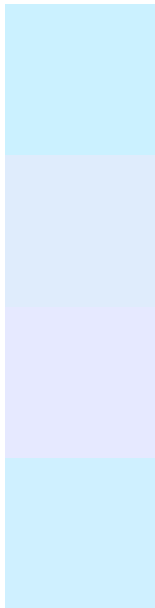
82.6711, 0.3072, 0.3033



## Tritanopia

82.6546, 0.2852, 0.3122

# Trichromacy



## Original Color

82.8271, 0.2812, 0.3142

## Protanomaly

82.7072, 0.2947, 0.3125

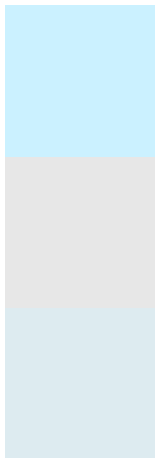
## Deuteranomaly

82.3208, 0.2974, 0.3067

## Tritanomaly

82.8056, 0.2835, 0.3132

# Monochromacy



## Original Color

82.8271, 0.2812, 0.3142

## Achromatopsia

79.9103, 0.3127, 0.3290

## Achromatomaly

81.0801, 0.3005, 0.3237

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 82.8271, 0.2812, 0.3142 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(203, 241, 255)` looks like.

```
.text, #text, p{  
    color:rgb(203, 241, 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(203, 241, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(203, 241, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 82.8271, 0.2812, 0.3142 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(203, 241, 255) }
```

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

```
.border{ border-color:rgb(203, 241, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(203, 241, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(203, 241, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(203, 241, 255);  
box-shadow:4px 4px 4px 4px rgb(203, 241,  
255) }
```



# Background

The CSS property to change the background color of an element to  $\text{Yxy } 82.8271, 0.2812, 0.3142$  is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(203, 241, 255) }
```

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

```
.background{ background-color: rgb(203,  
241, 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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