

# Converting Colors

$Y_{xy}(82.7950, 0.2817, 0.3139)$

Have a look what the booklet for  
Yxy(82.7950, 0.2817, 0.3139)  
contains.

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# Color

**Yxy(82.9680, 0.2818, 0.3142)**

# Conversions

## Conversions Part 1

Format	Color
Hex	CCF1FF
RGB	204, 241, 255
RGB Percent	80%, 95%, 100%
CMY	0.1998, 0.0549, 0.0001
CMYK	0.20, 0.05, 0.00, 0.00
HSL	196°, 100%, 90%
HSV	196°, 20%, 100%
XYZ	74.4124, 82.9680, 106.6807
YIQ	231.5330, -26.5460, -3.4900

# Conversions

## Conversions Part 2

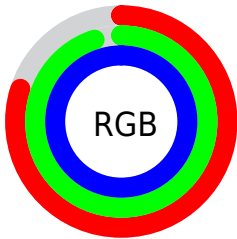
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	204, 225, 255
Decimal	13431295
CIE <sub>Lab</sub>	93.00, -9.00, -10.71
CIE <sub>LCh</sub>	93, 13.991, 229.956
Yxy	82.9680, 0.2818, 0.3142
Android (android.graphics.Color)	4291621375 (0xFFCCCF1FF)
YUV	231.5330, 11.5692, -24.1464
Hunter-Lab	91.0868, -13.5781, -5.6796

# Details

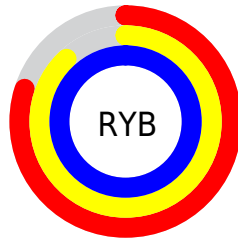
The Yxy color **82.9680, 0.2818, 0.3142** is a light color, and the websafe version is hex **CCFFFF**. A complement of this color would be **75.7728, 0.3499, 0.3433**, and the grayscale version is **80.2624, 0.3127, 0.3290**.

A 20% lighter version of the original color is **100.0000, 0.3127, 0.3290**, and **45.1647, 0.2752, 0.3112** is the 20% darker color. If you saturate the color by 10%, you get **75.5934, 0.2668, 0.3057**, and if you desaturate by 10%, it is **91.0984, 0.2972, 0.3220**.

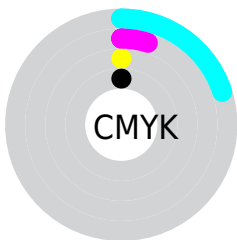
# Distribution



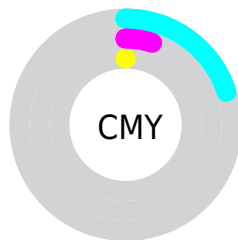
- Red (80%)
- Green (95%)
- Blue (100%)



- 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 82.9680, 0.2818, 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 82.9680, 0.2818, 0.3142 by changing the saturation by 10% instead.



82.9680, 0.2818,  
0.3142

82.9680, 0.2818,  
0.3142

504.8799, 0.2956,  
0.3210

62.1638, 0.2787,  
0.3126

137.5306, 0.2865,  
0.3166

45.1650, 0.2750,  
0.3107

172.0578, 0.2884,  
0.3175

31.5874, 0.2704,  
0.3083

211.9281, 0.2900,  
0.3183

21.0466, 0.2645,  
0.3052

257.5259, 0.2914,  
0.3190

13.1580, 0.2567,  
0.3009

309.2356, 0.2926,  
0.3196

7.5375, 0.2459,  
0.2948

367.4415, 0.2937,

3.8004, 0.2301,

0.3201

0.2855

432.5282, 0.2947,  
0.3206

■ 1.5626, 0.2048,  
0.2696

■ 0.3322, 0.0621,  
0.2148

■ 82.9680, 0.2818,  
0.3142

■ 82.9680, 0.2818,  
0.3142

■ 75.5934, 0.2668,  
0.3057

■ 91.0984, 0.2972,  
0.3220

■ 68.9340, 0.2524,  
0.2966

99.9955, 0.3127,  
0.3290

■ 62.9604, 0.2392,  
0.2870

99.9986, 0.3127,  
0.3290

■ 57.6366, 0.2273,  
0.2769

■ 52.9228, 0.2172,  
0.2665

■ 48.7735, 0.2091,  
0.2560

■ 45.1350, 0.2030,  
0.2456

■ 41.9206, 0.1987,  
0.2353

■ 41.9133, 0.1987,  
0.2353

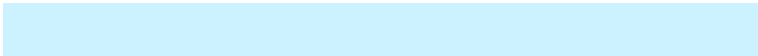
# Harmonies

## Analogous

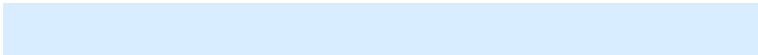
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



82.9680, 0.2865, 0.3282



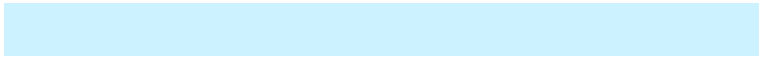
82.9680, 0.2818, 0.3142



82.9680, 0.2851, 0.3047

# Triad

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



82.9680, 0.2818, 0.3142



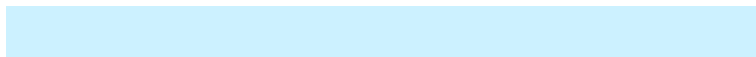
82.9680, 0.3272, 0.3156



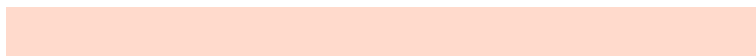
82.9680, 0.3295, 0.3574

# Complementary

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



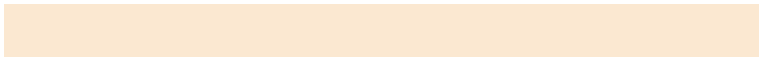
82.9680, 0.2818, 0.3142



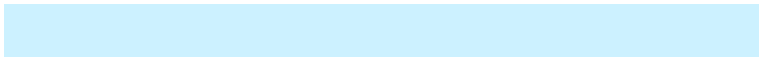
75.7728, 0.3499, 0.3433

# Split Complementary

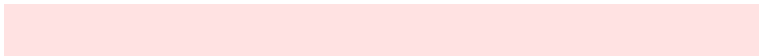
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



82.9680, 0.3409, 0.3531



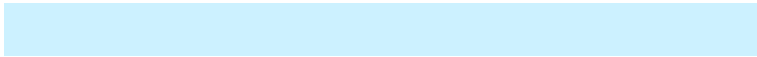
82.9680, 0.2818, 0.3142



82.9680, 0.3396, 0.3289

# Square

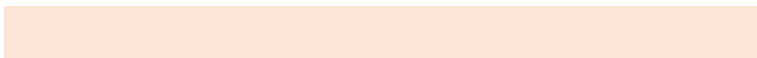
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



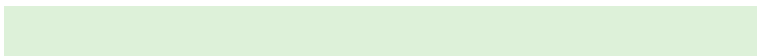
82.9680, 0.2818, 0.3142



82.9680, 0.3110, 0.3058



82.9680, 0.3447, 0.3426

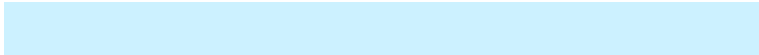


82.9680, 0.3138, 0.3538



# Rectangle

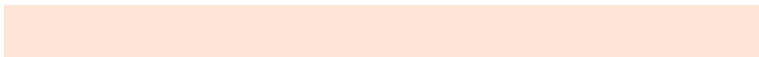
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



82.9680, 0.2818, 0.3142



82.9680, 0.2915, 0.3020



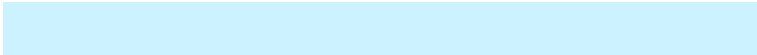
82.9680, 0.3447, 0.3426



82.9680, 0.3340, 0.3568

# Sweetspot

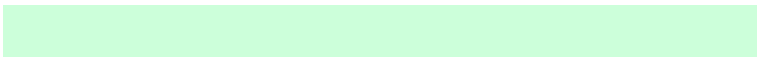
The Sweet Spot groups the original color and five complimentary colors.



82.9714, 0.2818, 0.3142



94.5626, 0.3034, 0.3249



89.3921, 0.3026, 0.3692



20.1173, 0.3024, 0.3244



0.0000, 0.0000, 0.0000

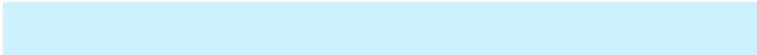


21.4041, 0.3127, 0.3290

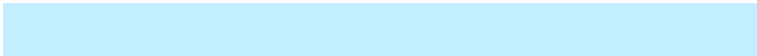


# Same Dimension

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



82.9714, 0.2818, 0.3142



79.9296, 0.2757, 0.3109



69.1370, 0.2801, 0.2869



19.5887, 0.2980, 0.3223



22.1672, 0.1992, 0.2370



2.3411, 0.2024, 0.2488



# Inverse Universe

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



70.8130, 0.3249, 0.2923



65.9395, 0.3279, 0.2846



89.7748, 0.3451, 0.3679



18.2103, 0.3180, 0.3119



12.9658, 0.4054, 0.2007

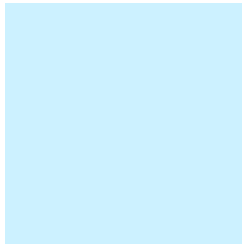


1.2809, 0.3935, 0.1941



# Previews

## White Background



This preview shows how the Yxy color 82.9680, 0.2818, 0.3142 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

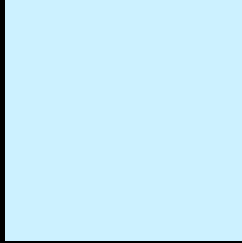
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 82.9680, 0.2818, 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

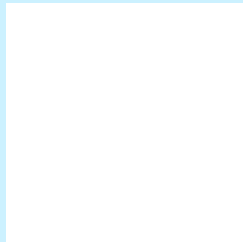
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 82.9680, 0.2818, 0.3142**

## **Background**



This preview shows how black text looks on a background with the Yxy color 82.9680, 0.2818, 0.3142.



This preview shows how white text looks on a background with the Yxy color 82.9680, 0.2818, 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

82.9680, 0.2818, 0.3142

### Protanopia

82.6724, 0.3029, 0.3118

### Deuteranopia

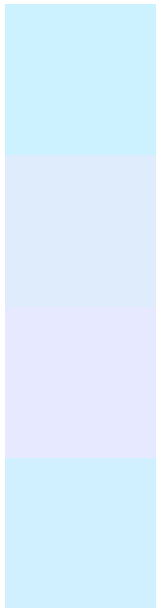
82.6711, 0.3072, 0.3033



## Tritanopia

82.8019, 0.2858, 0.3122

# Trichromacy



**Original Color**

82.9680, 0.2818, 0.3142

**Protanomaly**

82.7072, 0.2947, 0.3125

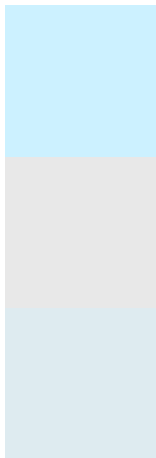
**Deuteranomaly**

82.3208, 0.2974, 0.3067

**Tritanomaly**

82.9501, 0.2840, 0.3132

# Monochromacy



**Original Color**

82.9680, 0.2818, 0.3142

**Achromatopsia**

80.6952, 0.3127, 0.3290

**Achromatomaly**

81.2375, 0.3011, 0.3237

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 82.9680, 0.2818, 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(204, 241, 255)` looks like.

```
.text, #text, p{  
    color:rgb(204, 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(204, 241, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(204, 241, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 82.9680, 0.2818, 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(204, 241, 255) }
```

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

```
.border{ border-color:rgb(204, 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(204, 241, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(204, 241, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(204, 241, 255);  
box-shadow:4px 4px 4px 4px rgb(204, 241,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 82.9680, 0.2818, 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(204, 241, 255) }
```

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

```
.background{ background-color: rgb(204,  
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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