

# Converting Colors

$Yxy(87.5319, 0.2823, 0.3222)$

Have a look what the booklet for  
Yxy(87.5319, 0.2823, 0.3222)  
contains.

<b>Yxy(87.8087, 0.2823, 0.3227)</b> .....	3
<b>Conversions</b> .....	4
<b>Details</b> .....	6
<b>Harmonies</b> .....	12
<b>Previews</b> .....	24
<b>Color Blindness Simulation</b> .....	27
<b>CSS Examples</b> .....	30

# Color

**Yxy(87.8087, 0.2823, 0.3227)**

# Conversions

## Conversions Part 1

Format	Color
Hex	CCF9FF
RGB	204, 249, 255
RGB Percent	80%, 98%, 100%
CMY	0.2001, 0.0235, 0.0001
CMYK	0.20, 0.02, 0.00, 0.00
HSL	187°, 100%, 90%
HSV	187°, 20%, 100%
XYZ	76.8156, 87.8087, 107.4820
YIQ	236.2290, -28.7460, -7.6740

# Conversions

## Conversions Part 2

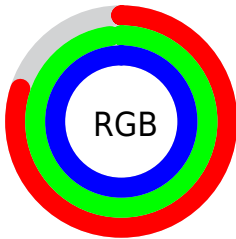
<b>Format</b>	<b>Color</b>
<b>RYB</b>	204, 228, 255
Decimal	13433343
CIELab	95.08, -13.06, -7.62
CIELCh	95, 15.119, 210.268
Yxy	87.8087, 0.2823, 0.3227
Android (android.graphics.Color)	4291623423 (0xFFCCCF9FF)
YUV	236.2290, 9.2541, -28.2648
Hunter-Lab	93.7063, -17.6609, -2.4118

# Details

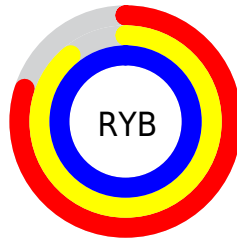
The Yxy color **87.8087, 0.2823, 0.3227** is a light color, and the websafe version is hex **CCFFFF**. A complement of this color would be **71.6649, 0.3515, 0.3352**, and the grayscale version is **84.0056, 0.3127, 0.3290**.

A 20% lighter version of the original color is **100.0000, 0.3127, 0.3290**, and **48.6067, 0.2761, 0.3222** is the 20% darker color. If you saturate the color by 10%, you get **82.6748, 0.2682, 0.3192**, and if you desaturate by 10%, it is **93.5686, 0.2972, 0.3260**.

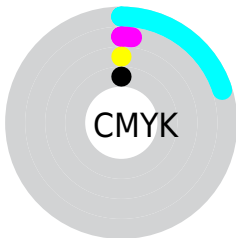
# Distribution



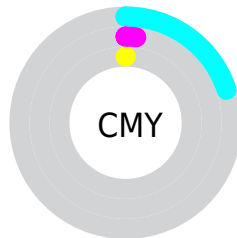
- Red (80%)
- Green (98%)
- Blue (100%)



- Red (80%)
- Yellow (89%)
- Blue (100%)



- Cyan (20%)
- Magenta (2%)
- Yellow (0%)
- Black (0%)




- Cyan (20%)
- Magenta (2%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 87.8087, 0.2823, 0.3227 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 87.8087, 0.2823, 0.3227 by changing the saturation by 10% instead.




 87.8087, 0.2823,  
0.3227

 87.8087, 0.2823,  
0.3227

520.8766, 0.2958,  
0.3257

 66.1647, 0.2794,  
0.3220

144.2908, 0.2869,  
0.3237

 48.4061, 0.2758,  
0.3211


179.8976, 0.2887,  
0.3242

 34.1486, 0.2713,  
0.3200


220.9275, 0.2902,  
0.3245

 23.0078, 0.2657,  
0.3186

267.7649, 0.2916,  
0.3248

 14.5992, 0.2583,  
0.3166

320.7940, 0.2928,  
0.3251

 8.5386, 0.2482,  
0.3137

380.3995, 0.2939,

 4.4415, 0.2335,

0.3253

0.3091

446.9655, 0.2949,  
0.3255

■ 1.9235, 0.2104,  
0.3011

■ 0.5624, 0.1115,  
0.2907

■ 87.8087, 0.2823,  
0.3227

■ 87.8087, 0.2823,  
0.3227

■ 82.6748, 0.2682,  
0.3192

■ 93.5686, 0.2972,  
0.3260

■ 78.1274, 0.2553,  
0.3154

99.9707, 0.3127,  
0.3290

■ 74.1388, 0.2439,  
0.3115

99.9981, 0.3127,  
0.3290

■ 70.6749, 0.2342,  
0.3074

■ 67.6975, 0.2264,  
0.3033

■ 65.1629, 0.2205,  
0.2992

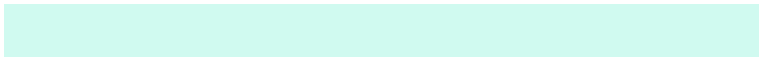
■ 63.0190, 0.2166,  
0.2951

■ 61.1817, 0.2142,  
0.2910

# Harmonies

## Analogous

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



87.8087, 0.2923, 0.3386



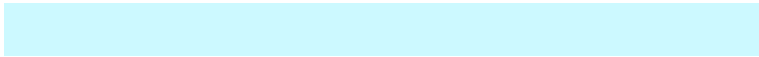
87.8087, 0.2823, 0.3227



87.8087, 0.2802, 0.3091

# Triad

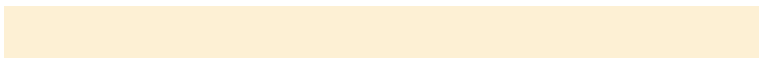
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



87.8087, 0.2823, 0.3227



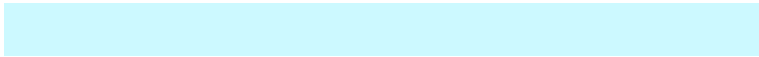
87.8087, 0.3169, 0.3074



87.8087, 0.3392, 0.3570

# Complementary

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



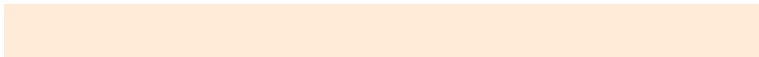
87.8087, 0.2823, 0.3227



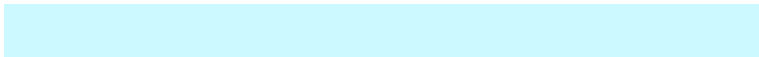
71.6649, 0.3515, 0.3352

# 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.



87.8087, 0.3463, 0.3477



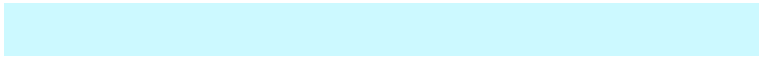
87.8087, 0.2823, 0.3227



87.8087, 0.3332, 0.3194

# Square

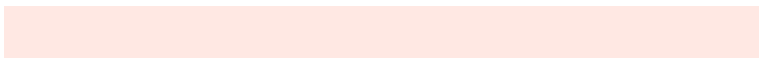
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



87.8087, 0.2823, 0.3227



87.8087, 0.2998, 0.3009



87.8087, 0.3441, 0.3340

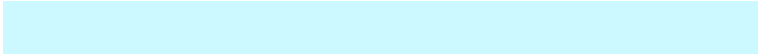


87.8087, 0.3250, 0.3588

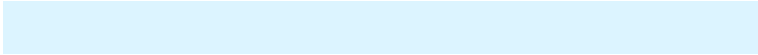


# Rectangle

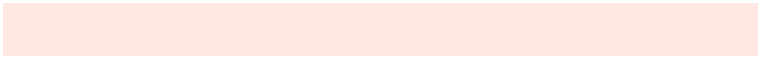
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



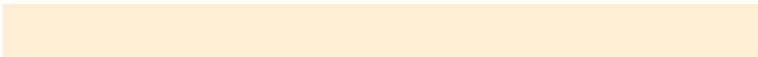
87.8087, 0.2823, 0.3227



87.8087, 0.2836, 0.3032



87.8087, 0.3441, 0.3340



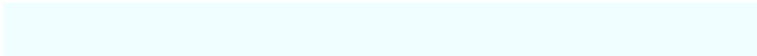
87.8087, 0.3425, 0.3546

# Sweetspot

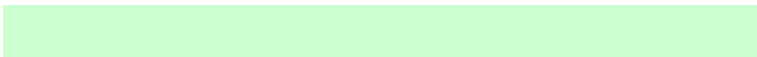
The Sweet Spot groups the original color and five complimentary colors.



87.8123, 0.2823, 0.3227



96.0786, 0.3034, 0.3272



88.9826, 0.3068, 0.3778



20.4765, 0.3024, 0.3270



0.0000, 0.0000, 0.0000

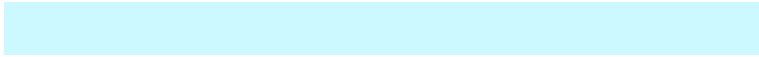


21.4041, 0.3127, 0.3290

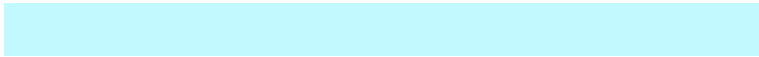


# Same Dimension

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



87.8123, 0.2823, 0.3227



85.7094, 0.2766, 0.3213



73.1021, 0.2805, 0.2952



20.0980, 0.2980, 0.3261



32.1210, 0.2144, 0.2917



3.2257, 0.2157, 0.2963



# Inverse Universe

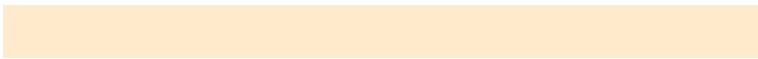
The Inverse Universe completely reimagines the original color for something new.



71.2636, 0.3192, 0.2846



66.5230, 0.3207, 0.2756



85.2688, 0.3466, 0.3606



18.2617, 0.3156, 0.3083



13.9706, 0.3528, 0.1717

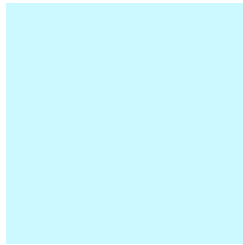


1.3702, 0.3487, 0.1694



# Previews

## White Background



This preview shows how the Yxy color 87.8087, 0.2823, 0.3227 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

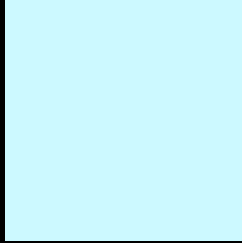
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 87.8087, 0.2823, 0.3227 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

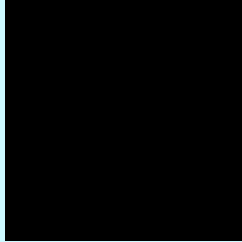
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 87.8087, 0.2823, 0.3227**

## **Background**



This preview shows how black text looks on a background with the Yxy color 87.8087, 0.2823, 0.3227.

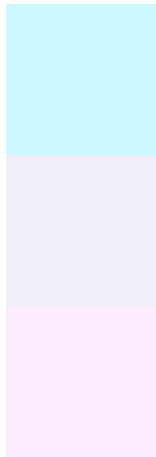


This preview shows how white text looks on a background with the Yxy color 87.8087, 0.2823, 0.3227.

# 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

87.8087, 0.2823, 0.3227

### Protanopia

87.4498, 0.3086, 0.3191

### Deuteranopia

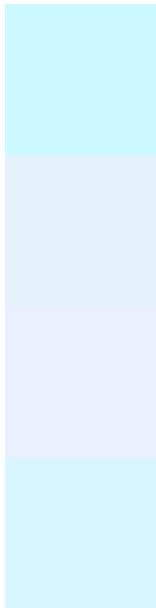
87.5193, 0.3123, 0.3097



## Tritanopia

87.6093, 0.2932, 0.3178

# Trichromacy



**Original Color**

87.8087, 0.2823, 0.3227

**Protanomaly**

87.5602, 0.2985, 0.3209

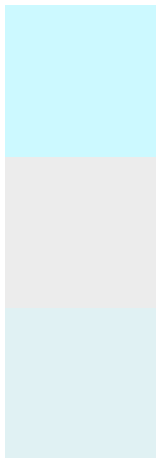
**Deuteranomaly**

87.2023, 0.3006, 0.3140

**Tritanomaly**

87.7305, 0.2891, 0.3197

# Monochromacy



**Original Color**

87.8087, 0.2823, 0.3227

**Achromatopsia**

83.8799, 0.3127, 0.3290

**Achromatomaly**

85.2290, 0.3006, 0.3269

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 87.8087, 0.2823, 0.3227 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, 249, 255)` looks like.

```
.text, #text, p{  
    color:rgb(204, 249, 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, 249, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(204, 249, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 87.8087, 0.2823, 0.3227 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, 249, 255) }
```

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

```
.border{ border-color:rgb(204, 249, 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, 249, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(204, 249, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(204, 249, 255);  
box-shadow:4px 4px 4px 4px rgb(204, 249,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 87.8087, 0.2823, 0.3227 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(204, 249, 255) }
```

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

```
.background{ background-color: rgb(204,  
249, 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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