

# Converting Colors

$Yxy(84.0074, 0.2925, 0.3005)$

Have a look what the booklet for  
Yxy(84.0074, 0.2925, 0.3005)  
contains.

<b>Yxy(83.4597, 0.2974, 0.3087)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

# Color

**Yxy(83.4597, 0.2974, 0.3087)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E6EBFF
RGB	230, 235, 255
RGB Percent	90%, 92%, 100%
CMY	0.0979, 0.0785, 0.0000
CMYK	0.10, 0.08, 0.00, 0.00
HSL	228°, 100%, 95%
HSV	228°, 10%, 100%
XYZ	80.4046, 83.4597, 106.4943
YIQ	235.7850, -9.4000, 5.1600

# Conversions

## Conversions Part 2

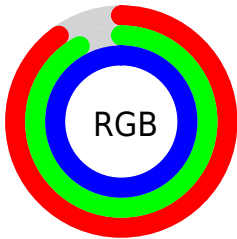
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	230, 234, 255
Decimal	15133695
CIE Lab	93.22, 2.12, -10.22
CIE LCh	93, 10.443, 281.737
Yxy	83.4597, 0.2974, 0.3087
Android (android.graphics.Color)	4293323775 (0xFFE6EBFF)
YUV	235.7850, 9.4730, -5.0734
Hunter-Lab	91.3563, -2.7718, -5.1651

# Details

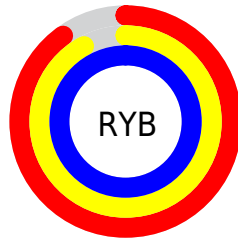
The Yxy color **83.4597, 0.2974, 0.3087** is a light color, and the websafe version is hex FFFFFFFF. A complement of this color would be **95.3829, 0.3279, 0.3485**, and the grayscale version is **83.6454, 0.3127, 0.3290**.

A 20% lighter version of the original color is **100.0000, 0.3127, 0.3290**, and **45.3161, 0.2938, 0.3042** is the 20% darker color. If you saturate the color by 10%, you get **68.5024, 0.2803, 0.2853**, and if you desaturate by 10%, it is **100.0000, 0.3127, 0.3290**.

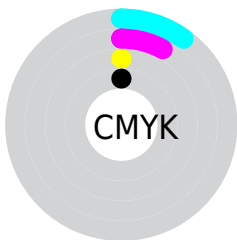
# Distribution



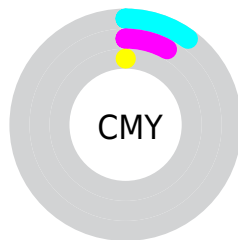
- Red (90%)
- Green (92%)
- Blue (100%)



- Red (90%)
- Yellow (92%)
- Blue (100%)



- Cyan (10%)
- Magenta (8%)
- Yellow (0%)
- Black (0%)



- Cyan (10%)
- Magenta (8%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 83.4597, 0.2974, 0.3087 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 83.4597, 0.2974, 0.3087 by changing the saturation by 10% instead.



83.4597, 0.2974,  
0.3087

83.4597, 0.2974,  
0.3087

506.5173, 0.3043,  
0.3178

62.5695, 0.2959,  
0.3067

138.2191, 0.2998,  
0.3118

45.4930, 0.2940,  
0.3042

172.8571, 0.3007,  
0.3130

31.8459, 0.2916,  
0.3012

212.8464, 0.3015,  
0.3141

21.2438, 0.2886,  
0.2972

258.5715, 0.3022,  
0.3150

13.3024, 0.2846,  
0.2920

310.4167, 0.3028,  
0.3158

7.6371, 0.2789,  
0.2848

368.7665, 0.3034,

3.8636, 0.2705,

0.3166

0.2741

434.0052, 0.3039,  
0.3172

■ 1.5976, 0.2566,  
0.2567

■ 0.3560, 0.2103,  
0.1919

■ 83.4597, 0.2974,  
0.3087

■ 83.4597, 0.2974,  
0.3087

■ 68.5024, 0.2803,  
0.2853

100.0000, 0.3127,  
0.3290

■ 55.4340, 0.2618,  
0.2593

■ 44.1800, 0.2424,  
0.2310

■ 34.6589, 0.2227,  
0.2011

■ 26.7821, 0.2037,  
0.1708

■ 20.4535, 0.1864,  
0.1415

■ 15.5659, 0.1720,  
0.1151

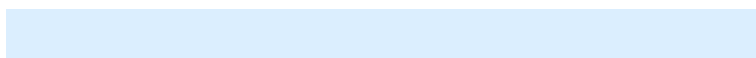
■ 11.9974, 0.1614,  
0.0933

■ 9.5867, 0.1548,  
0.0771

# Harmonies

## Analogous

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



83.4597, 0.2908, 0.3124



83.4597, 0.2974, 0.3087



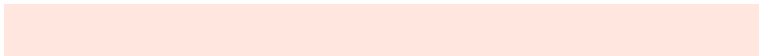
83.4597, 0.3082, 0.3103

# Triad

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



83.4597, 0.2974, 0.3087



83.4597, 0.3361, 0.3366



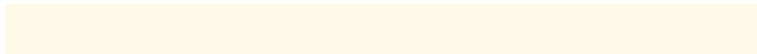
83.4597, 0.3049, 0.3419

# Complementary

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



83.4597, 0.2974, 0.3087



95.3829, 0.3279, 0.3485

# Split Complementary

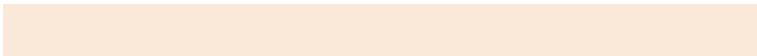
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



83.4597, 0.3169, 0.3487



83.4597, 0.2974, 0.3087



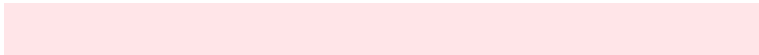
83.4597, 0.3351, 0.3453

# Square

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



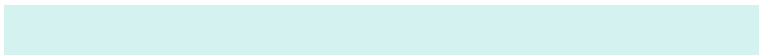
83.4597, 0.2974, 0.3087



83.4597, 0.3306, 0.3261



83.4597, 0.3280, 0.3498



83.4597, 0.2951, 0.3316



# Rectangle

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



83.4597, 0.2974, 0.3087



83.4597, 0.3163, 0.3141



83.4597, 0.3280, 0.3498



83.4597, 0.3088, 0.3447

# Sweetspot

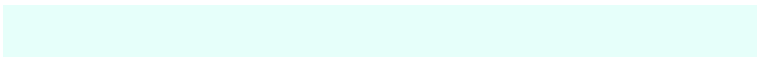
The Sweet Spot groups the original color and five complimentary colors.



83.4620, 0.2974, 0.3087



94.7260, 0.3082, 0.3231



95.2536, 0.3003, 0.3339



19.9801, 0.3069, 0.3214



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.



83.4620, 0.2974, 0.3087



79.9819, 0.2937, 0.3038



81.9367, 0.3022, 0.3040



17.9602, 0.2979, 0.3093



5.1513, 0.1553, 0.0790



0.6457, 0.1606, 0.0981



# Inverse Universe

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



83.8778, 0.3267, 0.3242



80.5257, 0.3304, 0.3230



97.1037, 0.3225, 0.3535



18.0459, 0.3263, 0.3243



11.2480, 0.6085, 0.3126

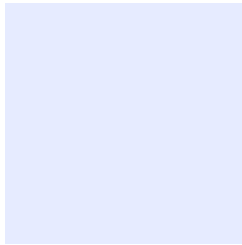


1.1097, 0.5788, 0.2962



# Previews

## White Background



This preview shows how the Yxy color 83.4597, 0.2974, 0.3087 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

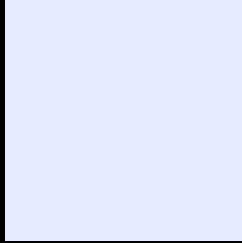
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 83.4597, 0.2974, 0.3087 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

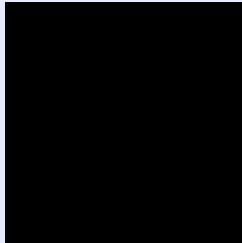
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 83.4597, 0.2974, 0.3087**

## **Background**



This preview shows how black text looks on a background with the Yxy color 83.4597, 0.2974, 0.3087.



This preview shows how white text looks on a background with the Yxy color 83.4597, 0.2974, 0.3087.

# 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

83.4597, 0.2974, 0.3087

### Protanopia

83.4938, 0.3005, 0.3089

### Deuteranopia

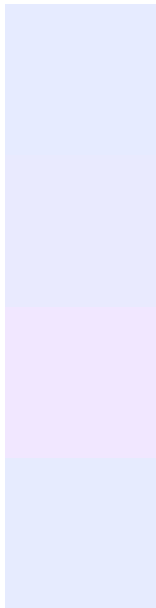
83.2151, 0.3092, 0.3035



## Tritanopia

83.3954, 0.2980, 0.3097

# Trichromacy



## Original Color

83.4597, 0.2974, 0.3087

## Protanomaly

83.3250, 0.2999, 0.3088

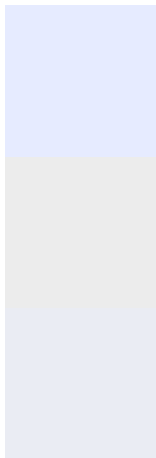
## Deuteranomaly

83.0726, 0.3045, 0.3051

## Tritanomaly

83.3954, 0.2980, 0.3097

# Monochromacy



## Original Color

83.4597, 0.2974, 0.3087

## Achromatopsia

83.8799, 0.3127, 0.3290

## Achromatomaly

83.9544, 0.3071, 0.3219

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 83.4597, 0.2974, 0.3087 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(230, 235, 255)` looks like.

```
.text, #text, p{  
    color:rgb(230, 235, 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(230, 235, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(230, 235, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 83.4597, 0.2974, 0.3087 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(230, 235, 255) }
```

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

```
.border{ border-color:rgb(230, 235, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(230, 235, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(230, 235, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(230, 235, 255);  
box-shadow:4px 4px 4px 4px rgb(230, 235,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 83.4597, 0.2974, 0.3087 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(230, 235, 255) }
```

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

```
.background{ background-color: rgb(230,  
235, 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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor