

# Converting Colors

$Y_{xy}(85.1178, 0.2947, 0.3130)$

Have a look what the booklet for  
Yxy(85.1178, 0.2947, 0.3130)  
contains.

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# Color

**Yxy(84.9606, 0.2943, 0.3127)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E1EFFF
RGB	225, 239, 255
RGB Percent	88%, 94%, 100%
CMY	0.1177, 0.0627, 0.0001
CMYK	0.12, 0.06, 0.00, 0.00
HSL	212°, 100%, 94%
HSV	212°, 12%, 100%
XYZ	79.9613, 84.9606, 106.7781
YIQ	236.6380, -13.4800, 2.0080

# Conversions

## Conversions Part 2

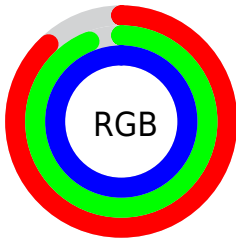
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	225, 235, 255
Decimal	14807039
CIE Lab	93.87, -1.55, -9.28
CIE LCh	94, 9.407, 260.506
Yxy	84.9606, 0.2943, 0.3127
Android (android.graphics.Color)	4292997119 (0xFFE1EFFF)
YUV	236.6380, 9.0525, -10.2065
Hunter-Lab	92.1741, -6.4553, -4.1620

# Details

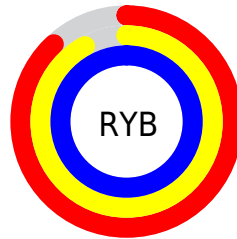
The Yxy color **84.9606, 0.2943, 0.3127** is a light color, and the websafe version is hex FFFFFFFF. A complement of this color would be **89.5768, 0.3320, 0.3448**, and the grayscale version is **84.3320, 0.3127, 0.3290**.

A 20% lighter version of the original color is **100.0000, 0.3127, 0.3290**, and **46.4902, 0.2908, 0.3093** is the 20% darker color. If you saturate the color by 10%, you get **73.5148, 0.2779, 0.2971**, and if you desaturate by 10%, it is **97.6225, 0.3100, 0.3267**.

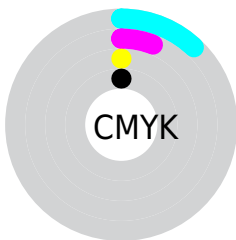
# Distribution



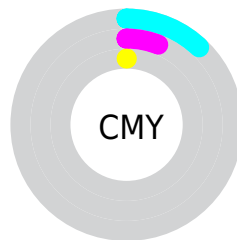
- Red (88%)
- Green (94%)
- Blue (100%)



- Red (88%)
- Yellow (92%)
- Blue (100%)



- Cyan (12%)
- Magenta (6%)
- Yellow (0%)
- Black (0%)



- Cyan (12%)
- Magenta (6%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 84.9606, 0.2943, 0.3127 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 84.9606, 0.2943, 0.3127 by changing the saturation by 10% instead.



84.9606, 0.2943,  
0.3127

84.9606, 0.2943,  
0.3127

511.4977, 0.3026,  
0.3200

63.8088, 0.2925,  
0.3111

140.3181, 0.2971,  
0.3152

46.4959, 0.2902,  
0.3091

175.2927, 0.2982,  
0.3162

32.6373, 0.2875,  
0.3066

215.6436, 0.2992,  
0.3171

21.8487, 0.2839,  
0.3034

261.7553, 0.3000,  
0.3178

13.7458, 0.2792,  
0.2991

314.0121, 0.3008,  
0.3185

7.9441, 0.2727,  
0.2932

372.7986, 0.3014,

4.0592, 0.2630,

0.3191

0.2843

438.4990, 0.3020,  
0.3196

■ 1.7067, 0.2473,  
0.2698

■ 0.4280, 0.1922,  
0.2230

■ 84.9606, 0.2943,  
0.3127

■ 84.9606, 0.2943,  
0.3127

■ 73.5148, 0.2779,  
0.2971

■ 97.6225, 0.3100,  
0.3267

■ 63.2343, 0.2612,  
0.2799

99.9990, 0.3127,  
0.3290

■ 54.0801, 0.2444,  
0.2612

■ 46.0068, 0.2281,  
0.2413

■ 38.9651, 0.2129,  
0.2205

■ 32.9010, 0.1992,  
0.1994

■ 27.7540, 0.1878,  
0.1787

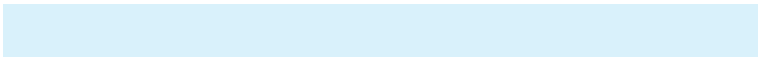
■ 23.4535, 0.1788,  
0.1589

■ 20.4685, 0.1733,  
0.1438

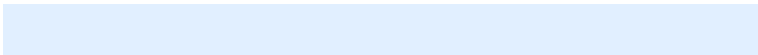
# Harmonies

## Analogous

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



84.9606, 0.2919, 0.3191



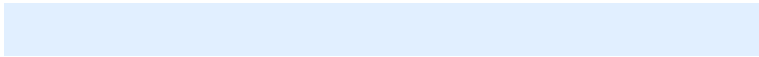
84.9606, 0.2943, 0.3127



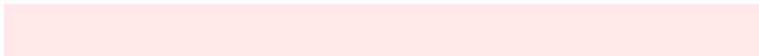
84.9606, 0.3015, 0.3107

# Triad

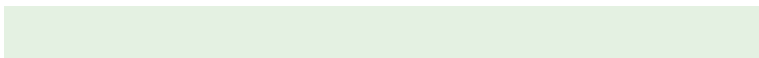
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



84.9606, 0.2943, 0.3127



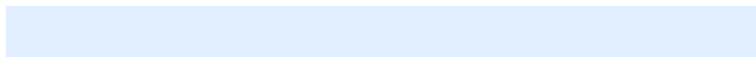
84.9606, 0.3307, 0.3292



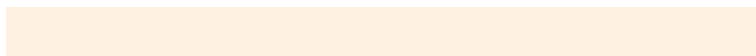
84.9606, 0.3133, 0.3453

# Complementary

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



84.9606, 0.2943, 0.3127



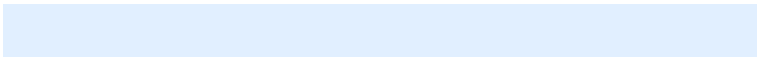
89.5768, 0.3320, 0.3448

# Split Complementary

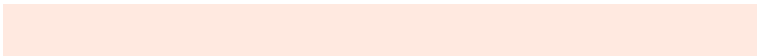
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



84.9606, 0.3238, 0.3479



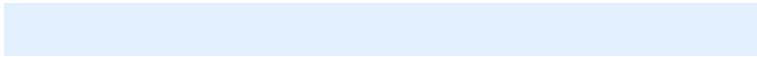
84.9606, 0.2943, 0.3127



84.9606, 0.3340, 0.3384

# Square

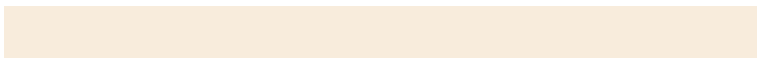
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



84.9606, 0.2943, 0.3127



84.9606, 0.3226, 0.3202



84.9606, 0.3314, 0.3453

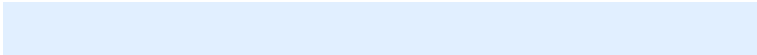


84.9606, 0.3028, 0.3381



# Rectangle

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



84.9606, 0.2943, 0.3127



84.9606, 0.3082, 0.3120



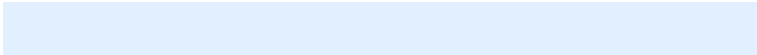
84.9606, 0.3314, 0.3453



84.9606, 0.3169, 0.3467

# Sweetspot

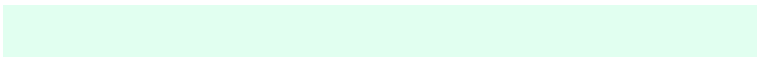
The Sweet Spot groups the original color and five complimentary colors.



84.9642, 0.2943, 0.3127



94.7006, 0.3066, 0.3237



93.8352, 0.3026, 0.3437



20.0613, 0.3054, 0.3227



0.0000, 0.0000, 0.0000

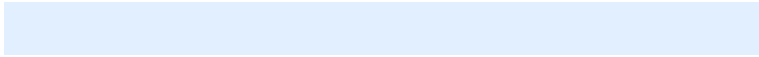


21.4041, 0.3127, 0.3290

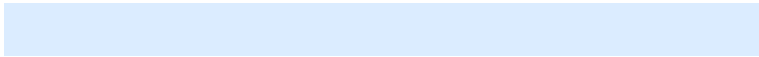


# Same Dimension

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



84.9642, 0.2943, 0.3127



82.3140, 0.2907, 0.3094



77.1458, 0.2943, 0.2981



18.7782, 0.2979, 0.3160



10.9893, 0.1741, 0.1467



1.2863, 0.1800, 0.1681



# Inverse Universe

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



81.3313, 0.3245, 0.3152



78.1355, 0.3271, 0.3125



98.1080, 0.3300, 0.3582



18.1285, 0.3220, 0.3179



11.8373, 0.5102, 0.2584

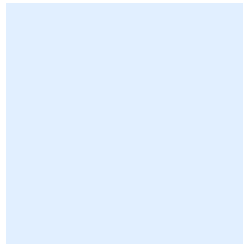


1.1744, 0.4830, 0.2435



# Previews

## White Background



This preview shows how the Yxy color 84.9606, 0.2943, 0.3127 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

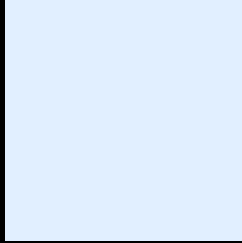
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 84.9606, 0.2943, 0.3127 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

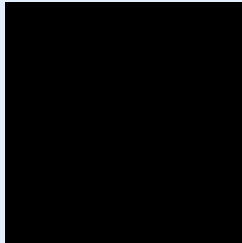
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

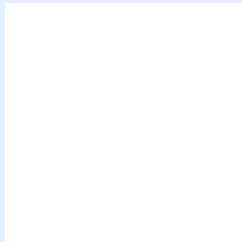
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 84.9606, 0.2943, 0.3127**

## **Background**



This preview shows how black text looks on a background with the Yxy color 84.9606, 0.2943, 0.3127.



This preview shows how white text looks on a background with the Yxy color 84.9606, 0.2943, 0.3127.

# 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

84.9606, 0.2943, 0.3127

### Protanopia

85.0873, 0.3030, 0.3120

### Deuteranopia

84.6958, 0.3105, 0.3056



## Tritanopia

84.7000, 0.2955, 0.3117

# Trichromacy



## Original Color

84.9606, 0.2943, 0.3127

## Protanomaly

85.0478, 0.2999, 0.3119

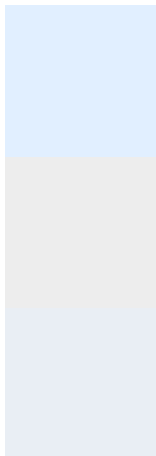
## Deuteranomaly

84.7664, 0.3045, 0.3082

## Tritanomaly

84.5378, 0.2949, 0.3117

# Monochromacy



## Original Color

84.9606, 0.2943, 0.3127

## Achromatopsia

84.6873, 0.3127, 0.3290

## Achromatomaly

85.0044, 0.3058, 0.3229

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 84.9606, 0.2943, 0.3127 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(225, 239, 255)` looks like.

```
.text, #text, p{  
    color:rgb(225, 239, 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(225, 239, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(225, 239, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 84.9606, 0.2943, 0.3127 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(225, 239, 255) }
```

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

```
.border{ border-color:rgb(225, 239, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(225, 239, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(225, 239, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(225, 239, 255);  
box-shadow:4px 4px 4px 4px rgb(225, 239,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 84.9606, 0.2943, 0.3127 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(225, 239, 255) }
```

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

```
.background{ background-color: rgb(225,  
239, 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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