

# Converting Colors

$Y_{xy}(85.2715, 0.2962, 0.3127)$

Have a look what the booklet for  
Yxy(85.2715, 0.2962, 0.3127)  
contains.

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# Color

**Yxy(85.4470, 0.2962, 0.3128)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E4EFFF
RGB	228, 239, 255
RGB Percent	89%, 94%, 100%
CMY	0.1058, 0.0627, 0.0001
CMYK	0.11, 0.06, 0.00, 0.00
HSL	216°, 100%, 95%
HSV	216°, 11%, 100%
XYZ	80.9124, 85.4470, 106.8087
YIQ	237.5350, -11.6920, 2.6440

# Conversions

## Conversions Part 2

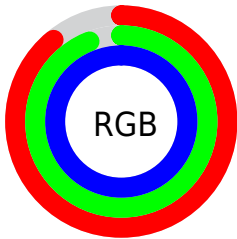
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	228, 236, 255
Decimal	15003647
CIE Lab	94.08, -0.59, -8.94
CIE LCh	94, 8.956, 266.225
Yxy	85.4470, 0.2962, 0.3128
Android (android.graphics.Color)	4293193727 (0xFFE4EFFF)
YUV	237.5350, 8.6102, -8.3622
Hunter-Lab	92.4375, -5.5211, -3.8015

# Details

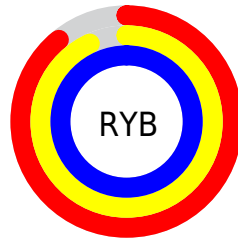
The Yxy color **85.4470, 0.2962, 0.3128** is a light color, and the websafe version is hex FFFFFFFF. A complement of this color would be **91.5526, 0.3297, 0.3447**, and the grayscale version is **85.0647, 0.3127, 0.3290**.

A 20% lighter version of the original color is **100.0000, 0.3127, 0.3290**, and **46.7148, 0.2924, 0.3094** is the 20% darker color. If you saturate the color by 10%, you get **73.1029, 0.2797, 0.2956**, and if you desaturate by 10%, it is **99.1527, 0.3119, 0.3282**.

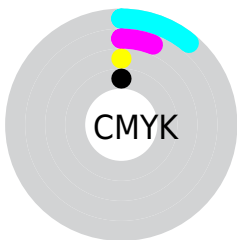
# Distribution



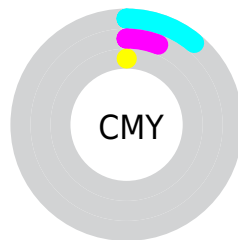
- Red (89%)
- Green (94%)
- Blue (100%)



- Red (89%)
- Yellow (93%)
- Blue (100%)



- Cyan (11%)
- Magenta (6%)
- Yellow (0%)
- Black (0%)



- Cyan (11%)
- Magenta (6%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 85.4470, 0.2962, 0.3128 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 85.4470, 0.2962, 0.3128 by changing the saturation by 10% instead.



85.4470, 0.2962,  
0.3128

85.4470, 0.2962,  
0.3128

513.1060, 0.3036,  
0.3201

64.2108, 0.2946,  
0.3112

140.9975, 0.2987,  
0.3153

46.8214, 0.2926,  
0.3092

176.0806, 0.2997,  
0.3163

32.8945, 0.2901,  
0.3068

216.5482, 0.3006,  
0.3171

22.0456, 0.2869,  
0.3036

262.7845, 0.3013,  
0.3179

13.8904, 0.2827,  
0.2994

315.1741, 0.3020,  
0.3185

8.0445, 0.2768,  
0.2936

374.1013, 0.3026,

4.1234, 0.2681,

0.3191

0.2850

439.9504, 0.3031,  
0.3196

■ 1.7429, 0.2539,  
0.2709

■ 0.4512, 0.2083,  
0.2267

■ 85.4470, 0.2962,  
0.3128

■ 85.4470, 0.2962,  
0.3128

■ 73.1029, 0.2797,  
0.2956

99.1527, 0.3119,  
0.3282

■ 62.0648, 0.2626,  
0.2765

99.9980, 0.3127,  
0.3290

■ 52.2889, 0.2452,  
0.2558

■ 43.7244, 0.2281,  
0.2336

■ 36.3168, 0.2118,  
0.2105

■ 30.0064, 0.1971,  
0.1872

■ 24.7268, 0.1846,  
0.1644

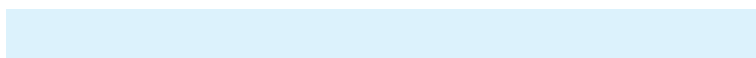
■ 20.4019, 0.1748,  
0.1431

■ 17.0958, 0.1681,  
0.1250

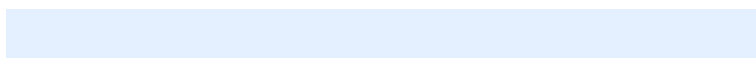
# Harmonies

## Analogous

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



85.4470, 0.2930, 0.3182



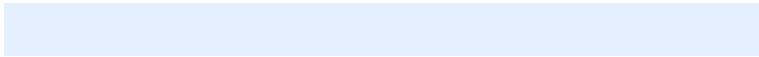
85.4470, 0.2962, 0.3128



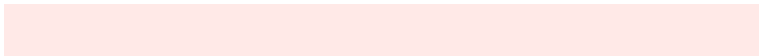
85.4470, 0.3038, 0.3118

# Triad

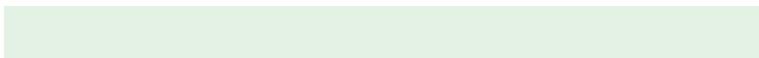
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



85.4470, 0.2962, 0.3128



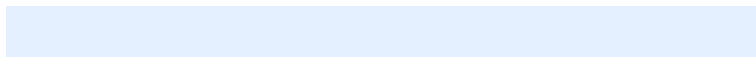
85.4470, 0.3308, 0.3309



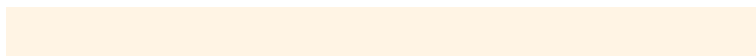
85.4470, 0.3113, 0.3434

# Complementary

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



85.4470, 0.2962, 0.3128



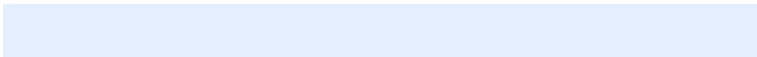
91.5526, 0.3297, 0.3447

# Split Complementary

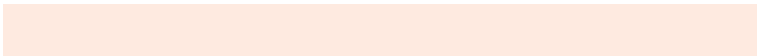
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



85.4470, 0.3215, 0.3468



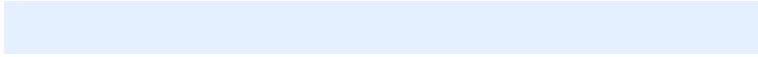
85.4470, 0.2962, 0.3128



85.4470, 0.3329, 0.3394

# Square

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



85.4470, 0.2962, 0.3128



85.4470, 0.3238, 0.3221



85.4470, 0.3294, 0.3453

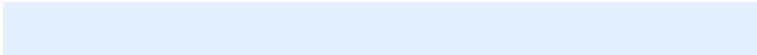


85.4470, 0.3016, 0.3360



# Rectangle

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



85.4470, 0.2962, 0.3128



85.4470, 0.3104, 0.3136



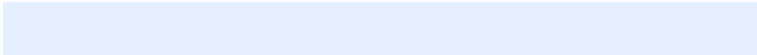
85.4470, 0.3294, 0.3453



85.4470, 0.3148, 0.3451

# Sweetspot

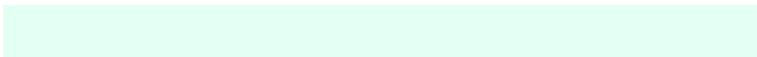
The Sweet Spot groups the original color and five complimentary colors.



85.4506, 0.2962, 0.3128



95.7196, 0.3081, 0.3246



94.5142, 0.3026, 0.3403



20.2476, 0.3069, 0.3234



0.0000, 0.0000, 0.0000

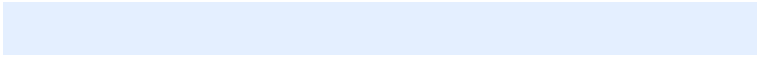


21.4041, 0.3127, 0.3290

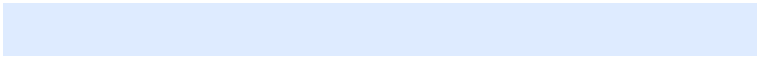


# Same Dimension

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



85.4506, 0.2962, 0.3128



82.3471, 0.2923, 0.3088



79.5857, 0.2975, 0.3016



18.5930, 0.2979, 0.3145



9.2106, 0.1689, 0.1280



1.1050, 0.1751, 0.1503



# Inverse Universe

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



82.9864, 0.3243, 0.3182



79.4417, 0.3273, 0.3157



97.9339, 0.3271, 0.3553



18.1098, 0.3230, 0.3194



11.6578, 0.5354, 0.2723

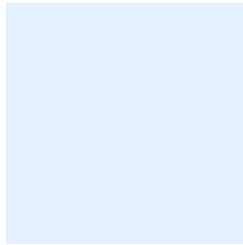


1.1561, 0.5055, 0.2558



# Previews

## White Background



This preview shows how the Yxy color 85.4470, 0.2962, 0.3128 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

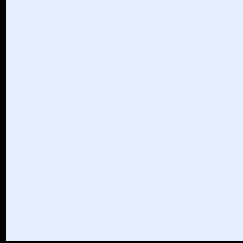
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 85.4470, 0.2962, 0.3128 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

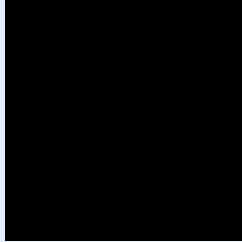
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

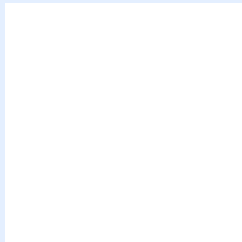
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 85.4470, 0.2962, 0.3128**

## **Background**



This preview shows how black text looks on a background with the Yxy color 85.4470, 0.2962, 0.3128.

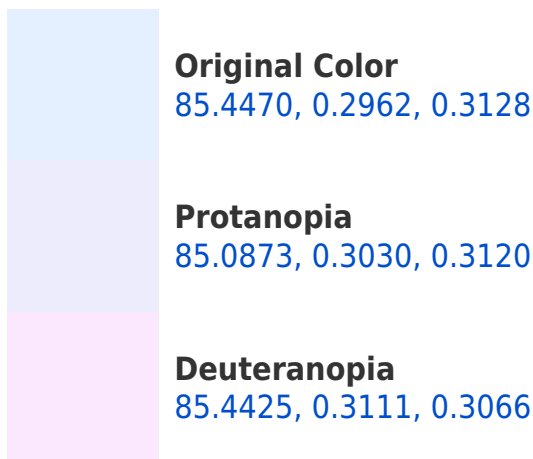


This preview shows how white text looks on a background with the Yxy color 85.4470, 0.2962, 0.3128.

# 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

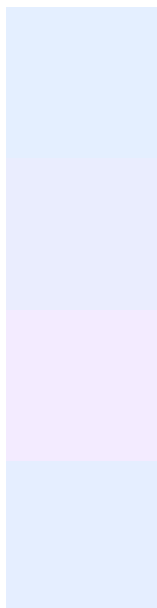




## Tritanopia

85.1921, 0.2974, 0.3118

# Trichromacy



## Original Color

85.4470, 0.2962, 0.3128

## Protanomaly

85.2166, 0.3005, 0.3119

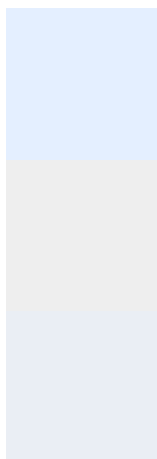
## Deuteranomaly

85.6913, 0.3057, 0.3092

## Tritanomaly

85.0271, 0.2968, 0.3118

# Monochromacy



## Original Color

85.4470, 0.2962, 0.3128

## Achromatopsia

85.4993, 0.3127, 0.3290

## Achromatomaly

85.1732, 0.3065, 0.3229

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 85.4470, 0.2962, 0.3128 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(228, 239, 255)` looks like.

```
.text, #text, p{  
    color:rgb(228, 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(228, 239, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(228, 239, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 85.4470, 0.2962, 0.3128 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(228, 239, 255) }
```

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

```
.border{ border-color:rgb(228, 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(228, 239, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(228, 239, 255); -webkit-box-shadow:4px 4px 4px 4px rgb(228, 239, 255); box-shadow:4px 4px 4px 4px rgb(228, 239, 255) }
```



# Background

The CSS property to change the background color of an element to Yxy 85.4470, 0.2962, 0.3128 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(228, 239, 255) }
```

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

```
.background{ background-color: rgb(228,  
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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