

# Converting Colors

$Y_{xy}(87.2270, 0.2963, 0.3158)$

Have a look what the booklet for  
Yxy(87.2270, 0.2963, 0.3158)  
contains.

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# Color

**Yxy(87.2182, 0.2962, 0.3158)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E4F2FF
RGB	228, 242, 255
RGB Percent	89%, 95%, 100%
CMY	0.1058, 0.0510, 0.0000
CMYK	0.11, 0.05, 0.00, 0.00
HSL	209°, 100%, 95%
HSV	209°, 11%, 100%
XYZ	81.8050, 87.2182, 107.1585
YIQ	239.2960, -12.5170, 1.0750

# Conversions

## Conversions Part 2

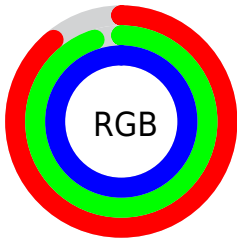
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	228, 237, 255
Decimal	15004415
CIE Lab	94.83, -2.11, -7.85
CIE LCh	95, 8.129, 254.962
Yxy	87.2182, 0.2962, 0.3158
Android (android.graphics.Color)	4293194495 (0xFFE4F2FF)
YUV	239.2960, 7.7421, -9.9066
Hunter-Lab	93.3907, -7.0776, -2.6572

# Details

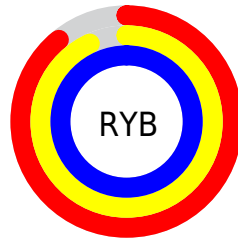
The Yxy color **87.2182, 0.2962, 0.3158** is a light color, and the websafe version is hex **FFFFFF**. A complement of this color would be **89.7855, 0.3301, 0.3418**, and the grayscale version is **86.5074, 0.3127, 0.3290**.

A 20% lighter version of the original color is **100.0000, 0.3127, 0.3290**, and **47.9657, 0.2925, 0.3134** is the 20% darker color. If you saturate the color by 10%, you get **76.2806, 0.2801, 0.3019**, and if you desaturate by 10%, it is **99.2653, 0.3118, 0.3283**.

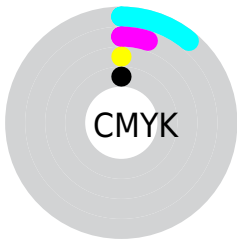
# Distribution



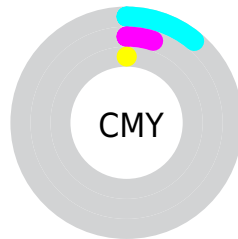
- Red (89%)
- Green (95%)
- Blue (100%)



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



- Cyan (11%)
- Magenta (5%)
- Yellow (0%)
- Black (0%)



- Cyan (11%)
- Magenta (5%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 87.2182, 0.2962, 0.3158 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 87.2182, 0.2962, 0.3158 by changing the saturation by 10% instead.



87.2182, 0.2962,  
0.3158

87.2182, 0.2962,  
0.3158

518.9396, 0.3036,  
0.3217

65.6758, 0.2946,  
0.3145

143.4682, 0.2987,  
0.3178

48.0093, 0.2926,  
0.3129

178.9447, 0.2997,  
0.3186

33.8342, 0.2901,  
0.3109

219.8345, 0.3006,  
0.3193

22.7663, 0.2870,  
0.3083

266.5223, 0.3013,  
0.3199

14.4210, 0.2829,  
0.3049

319.3922, 0.3020,  
0.3205

8.4141, 0.2771,  
0.3001

378.8289, 0.3026,

4.3610, 0.2687,

0.3209

0.2931

445.2165, 0.3031,  
0.3214

■ 1.8775, 0.2550,  
0.2815

■ 0.5348, 0.2142,  
0.2508

■ 87.2182, 0.2962,  
0.3158

■ 87.2182, 0.2962,  
0.3158

■ 76.2806, 0.2801,  
0.3019

99.2653, 0.3118,  
0.3283

■ 66.4118, 0.2637,  
0.2866

100.0000, 0.3127,  
0.3290

■ 57.5745, 0.2474,  
0.2699

■ 49.7274, 0.2317,  
0.2521

■ 42.8256, 0.2170,  
0.2335

■ 36.8199, 0.2039,  
0.2145

■ 31.6550, 0.1928,  
0.1955

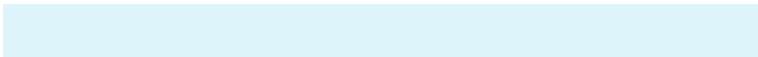
■ 27.2665, 0.1841,  
0.1771

■ 23.7533, 0.1780,  
0.1606

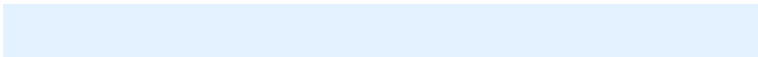
# Harmonies

## Analogous

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



87.2182, 0.2950, 0.3219



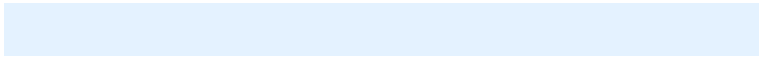
87.2182, 0.2962, 0.3158



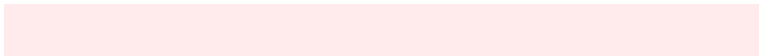
87.2182, 0.3017, 0.3133

# Triad

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



87.2182, 0.2962, 0.3158



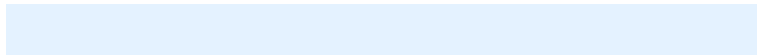
87.2182, 0.3271, 0.3277



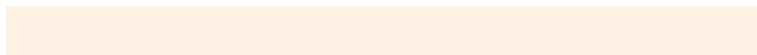
87.2182, 0.3150, 0.3436

# Complementary

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



87.2182, 0.2962, 0.3158



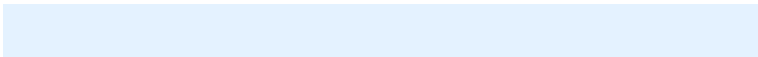
89.7855, 0.3301, 0.3418

# Split Complementary

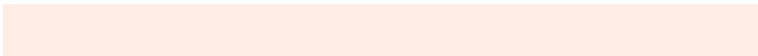
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



87.2182, 0.3237, 0.3451



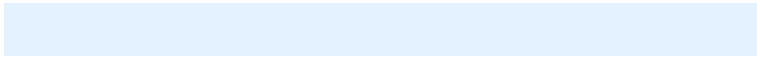
87.2182, 0.2962, 0.3158



87.2182, 0.3307, 0.3357

# Square

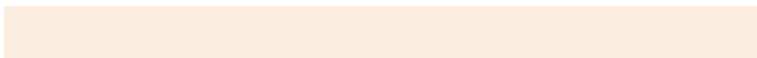
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



87.2182, 0.2962, 0.3158



87.2182, 0.3196, 0.3202



87.2182, 0.3295, 0.3421

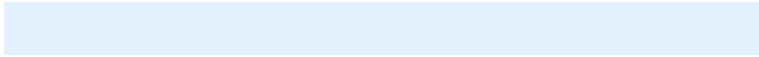


87.2182, 0.3058, 0.3381



# Rectangle

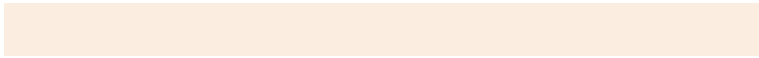
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



87.2182, 0.2962, 0.3158



87.2182, 0.3072, 0.3139



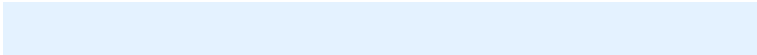
87.2182, 0.3295, 0.3421



87.2182, 0.3181, 0.3446

# Sweetspot

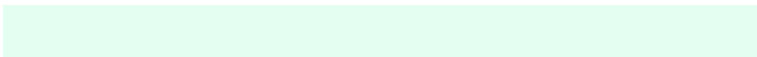
The Sweet Spot groups the original color and five complimentary colors.



87.2196, 0.2962, 0.3158



96.2482, 0.3081, 0.3254



94.3446, 0.3043, 0.3435



20.3901, 0.3069, 0.3245



0.0000, 0.0000, 0.0000

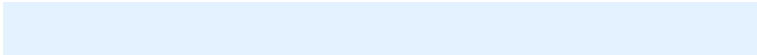


21.4041, 0.3127, 0.3290

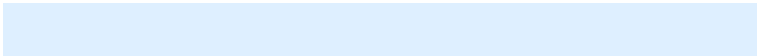


# Same Dimension

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



87.2196, 0.2962, 0.3158



84.4734, 0.2924, 0.3126



79.7101, 0.2960, 0.3023



18.9346, 0.2979, 0.3172



12.7124, 0.1788, 0.1635



1.4566, 0.1843, 0.1835



# Inverse Universe

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



83.1676, 0.3223, 0.3153



79.6564, 0.3248, 0.3121



97.8100, 0.3286, 0.3543



18.1443, 0.3213, 0.3167



12.0113, 0.4888, 0.2466

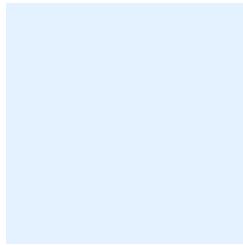


1.1916, 0.4643, 0.2332



# Previews

## White Background



This preview shows how the Yxy color 87.2182, 0.2962, 0.3158 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

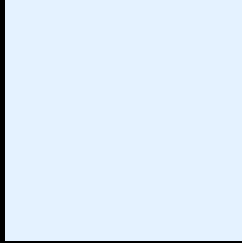
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 87.2182, 0.2962, 0.3158 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

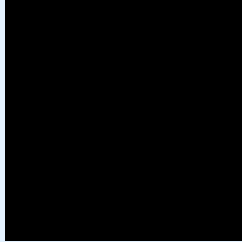
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

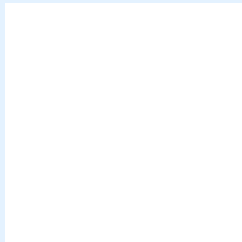
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 87.2182, 0.2962, 0.3158**

## **Background**



This preview shows how black text looks on a background with the Yxy color 87.2182, 0.2962, 0.3158.

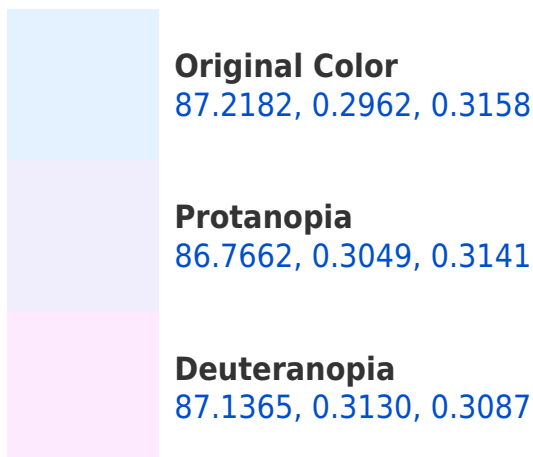


This preview shows how white text looks on a background with the Yxy color 87.2182, 0.2962, 0.3158.

# 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

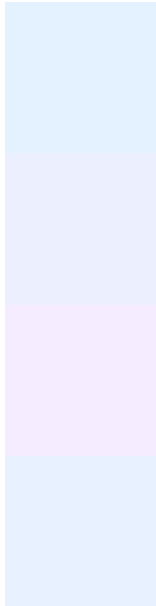




## Tritanopia

87.2864, 0.2987, 0.3149

# Trichromacy



## Original Color

87.2182, 0.2962, 0.3158

## Protanomaly

86.7216, 0.3018, 0.3140

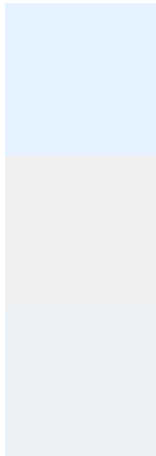
## Deuteranomaly

87.2009, 0.3070, 0.3113

## Tritanomaly

87.1195, 0.2981, 0.3149

# Monochromacy



## Original Color

87.2182, 0.2962, 0.3158

## Achromatopsia

86.3157, 0.3127, 0.3290

## Achromatomaly

86.5749, 0.3065, 0.3239

# CSS Examples

## Text

The CSS property to change the color of the text to  $Yxy$  87.2182, 0.2962, 0.3158 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, 242, 255)` looks like.

```
.text, #text, p{  
    color:rgb(228, 242, 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, 242, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(228, 242, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 87.2182, 0.2962, 0.3158 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, 242, 255) }
```

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

```
.border{ border-color:rgb(228, 242, 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, 242, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(228, 242, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(228, 242, 255);  
box-shadow:4px 4px 4px 4px rgb(228, 242,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 87.2182, 0.2962, 0.3158 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(228, 242, 255) }
```

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

```
.background{ background-color: rgb(228,  
242, 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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