

# Converting Colors

$Yxy(89.4222, 0.3003, 0.3179)$

Have a look what the booklet for  
Yxy(89.4222, 0.3003, 0.3179)  
contains.

<b>Yxy(89.5835, 0.3006, 0.3180)</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(89.5835, 0.3006, 0.3180)**

# Conversions

## Conversions Part 1

Format	Color
Hex	EBF4FF
RGB	235, 244, 255
RGB Percent	92%, 96%, 100%
CMY	0.0781, 0.0432, 0.0000
CMYK	0.08, 0.04, 0.00, 0.00
HSL	213°, 100%, 96%
HSV	213°, 8%, 100%
XYZ	84.6818, 89.5835, 107.4439
YIQ	242.5630, -8.8950, 1.5130

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	235, 241, 255
Decimal	15463679
CIE Lab	95.82, -0.88, -6.32
CIE LCh	96, 6.376, 262.082
Yxy	89.5835, 0.3006, 0.3180
Android (android.graphics.Color)	4293653759 (0xFFEBF4FF)
YUV	242.5630, 6.1314, -6.6328
Hunter-Lab	94.6486, -5.9316, -1.0513

# Details

The Yxy color 89.5835, 0.3006, 0.3180 is a light color, and the websafe version is hex FFFFFFFF. A complement of this color would be 93.2331, 0.3252, 0.3398, and the grayscale version is 89.2287, 0.3127, 0.3290.

A 20% lighter version of the original color is 100.0000, 0.3127, 0.3290, and 49.6274, 0.2980, 0.3162 is the 20% darker color. If you saturate the color by 10%, you get 77.3866, 0.2844, 0.3024, and if you desaturate by 10%, it is 100.0000, 0.3127, 0.3290.

# Distribution



- Red (92%)
- Green (96%)
- Blue (100%)



- Red (92%)
- Yellow (95%)
- Blue (100%)



- Cyan (8%)
- Magenta (4%)
- Yellow (0%)
- Black (0%)




- Cyan (8%)
- Magenta (4%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 89.5835, 0.3006, 0.3180 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 89.5835, 0.3006, 0.3180 by changing the saturation by 10% instead.




 89.5835, 0.3006,  
0.3180

 89.5835, 0.3006,  
0.3180

526.6751, 0.3060,  
0.3229

 67.6353, 0.2994,  
0.3169

146.7597, 0.3024,  
0.3197

 49.6011, 0.2980,  
0.3156


182.7565, 0.3032,  
0.3203

 35.0965, 0.2962,  
0.3140


224.2049, 0.3038,  
0.3209

 23.7372, 0.2939,  
0.3119


271.4893, 0.3043,  
0.3214

 15.1388, 0.2909,  
0.3091

324.9941, 0.3048,  
0.3218

 8.9169, 0.2867,  
0.3053

385.1038, 0.3053,

 4.6870, 0.2807,

0.3222

0.2996

452.2026, 0.3056,  
0.3226

■ 2.0648, 0.2709,  
0.2905

■ 0.6447, 0.2473,  
0.2697

■ 89.5835, 0.3006,  
0.3180

■ 89.5835, 0.3006,  
0.3180

■ 77.3866, 0.2844,  
0.3024

100.0000, 0.3127,  
0.3290

■ 66.4174, 0.2677,  
0.2852

■ 56.6360, 0.2507,  
0.2663

■ 47.9962, 0.2339,  
0.2460

■ 40.4485, 0.2179,  
0.2247

■ 33.9392, 0.2032,  
0.2029

■ 28.4083, 0.1905,  
0.1812

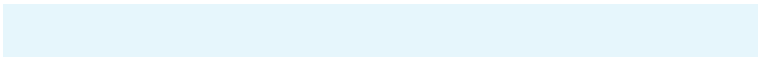
■ 23.7877, 0.1804,  
0.1604

■ 19.9915, 0.1729,  
0.1411

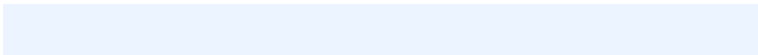
# Harmonies

## Analogous

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



89.5835, 0.2988, 0.3222



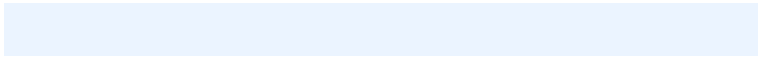
89.5835, 0.3006, 0.3180



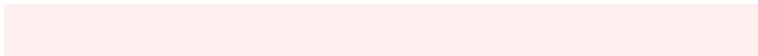
89.5835, 0.3056, 0.3168

# Triad

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



89.5835, 0.3006, 0.3180



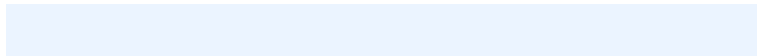
89.5835, 0.3249, 0.3295



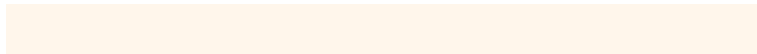
89.5835, 0.3128, 0.3396

# Complementary

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



89.5835, 0.3006, 0.3180



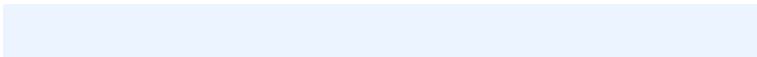
93.2331, 0.3252, 0.3398

# Split Complementary

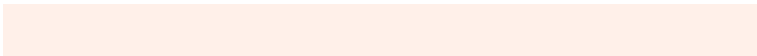
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



89.5835, 0.3198, 0.3415



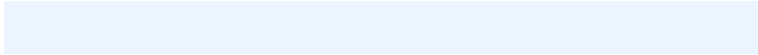
89.5835, 0.3006, 0.3180



89.5835, 0.3268, 0.3356

# Square

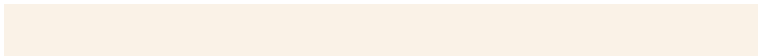
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



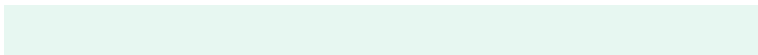
89.5835, 0.3006, 0.3180



89.5835, 0.3196, 0.3234



89.5835, 0.3250, 0.3400

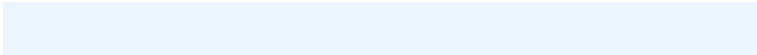


89.5835, 0.3058, 0.3347



# Rectangle

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



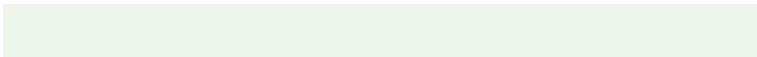
89.5835, 0.3006, 0.3180



89.5835, 0.3101, 0.3178



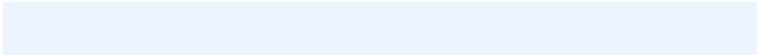
89.5835, 0.3250, 0.3400



89.5835, 0.3152, 0.3406

# Sweetspot

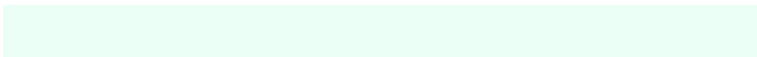
The Sweet Spot groups the original color and five complimentary colors.



89.5866, 0.3006, 0.3180



97.2591, 0.3097, 0.3263



95.8517, 0.3056, 0.3379



20.8462, 0.3098, 0.3264



0.0000, 0.0000, 0.0000

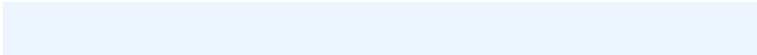


21.4041, 0.3127, 0.3290

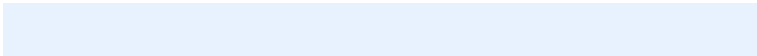


# Same Dimension

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



89.5866, 0.3006, 0.3180



88.0715, 0.2987, 0.3163



84.5278, 0.3013, 0.3091



18.7144, 0.2979, 0.3155



10.3450, 0.1723, 0.1401



1.2214, 0.1783, 0.1619



# Inverse Universe

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



87.2526, 0.3205, 0.3204



85.4307, 0.3218, 0.3190



98.5943, 0.3237, 0.3483



18.1220, 0.3224, 0.3184



11.7723, 0.5189, 0.2632

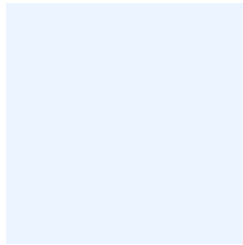


1.1678, 0.4907, 0.2477



# Previews

## White Background



This preview shows how the Yxy color 89.5835, 0.3006, 0.3180 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

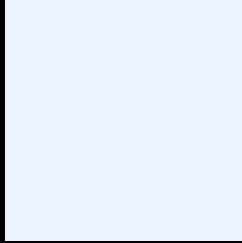
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 89.5835, 0.3006, 0.3180 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

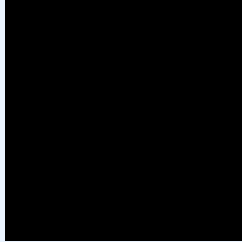
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

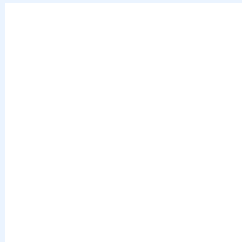
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 89.5835, 0.3006, 0.3180**

## **Background**



This preview shows how black text looks on a background with the Yxy color 89.5835, 0.3006, 0.3180.

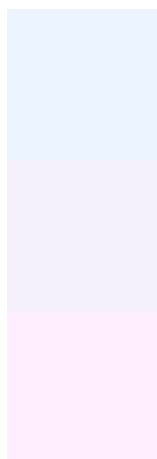


This preview shows how white text looks on a background with the Yxy color 89.5835, 0.3006, 0.3180.

# 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

89.5835, 0.3006, 0.3180

### Protanopia

89.2355, 0.3075, 0.3172

### Deuteranopia

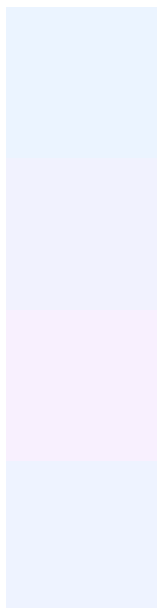
89.5009, 0.3147, 0.3146



## Tritanopia

89.6719, 0.3031, 0.3171

# Trichromacy



## Original Color

89.5835, 0.3006, 0.3180

## Protanomaly

89.3608, 0.3049, 0.3171

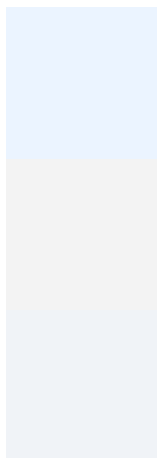
## Deuteranomaly

89.4324, 0.3095, 0.3154

## Tritanomaly

89.4983, 0.3024, 0.3171

# Monochromacy



## Original Color

89.5835, 0.3006, 0.3180

## Achromatopsia

89.6269, 0.3127, 0.3290

## Achromatomaly

89.3418, 0.3084, 0.3250

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 89.5835, 0.3006, 0.3180 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(235, 244, 255)` looks like.

```
.text, #text, p{  
    color:rgb(235, 244, 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(235, 244, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(235, 244, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 89.5835, 0.3006, 0.3180 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(235, 244, 255) }
```

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

```
.border{ border-color:rgb(235, 244, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(235, 244, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(235, 244, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(235, 244, 255);  
box-shadow:4px 4px 4px 4px rgb(235, 244,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 89.5835, 0.3006, 0.3180 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(235, 244, 255) }
```

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

```
.background{ background-color: rgb(235,  
244, 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