

# Converting Colors

$Y_{xy}(83.4295, 0.2956, 0.3100)$

Have a look what the booklet for  
Yxy(83.4295, 0.2956, 0.3100)  
contains.

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# Color

**Yxy(83.5418, 0.2955, 0.3096)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E3ECFF
RGB	227, 236, 255
RGB Percent	89%, 93%, 100%
CMY	0.1096, 0.0745, 0.0000
CMYK	0.11, 0.07, 0.00, 0.00
HSL	221°, 100%, 95%
HSV	221°, 11%, 100%
XYZ	79.7371, 83.5418, 106.5590
YIQ	235.4750, -11.4630, 4.0010

# Conversions

## Conversions Part 2

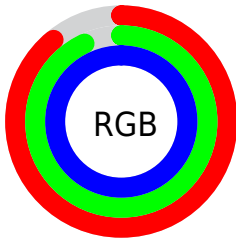
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	227, 234, 255
Decimal	14937343
CIE Lab	93.25, 0.66, -10.20
CIE LCh	93, 10.224, 273.688
Yxy	83.5418, 0.2955, 0.3096
Android (android.graphics.Color)	4293127423 (0xFFE3ECFF)
YUV	235.4750, 9.6258, -7.4326
Hunter-Lab	91.4012, -4.2313, -5.1417

# Details

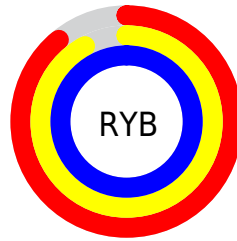
The Yxy color **83.5418, 0.2955, 0.3096** is a light color, and the websafe version is hex FFFFFFFF. A complement of this color would be **92.7492, 0.3301, 0.3476**, and the grayscale version is **83.3948, 0.3127, 0.3290**.

A 20% lighter version of the original color is **100.0000, 0.3127, 0.3290**, and **45.4904, 0.2923, 0.3054** is the 20% darker color. If you saturate the color by 10%, you get **70.1955, 0.2787, 0.2897**, and if you desaturate by 10%, it is **98.4736, 0.3113, 0.3274**.

# Distribution



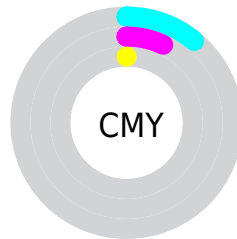
- Red (89%)
- Green (93%)
- Blue (100%)



- Red (89%)
- Yellow (92%)
- Blue (100%)



- Cyan (11%)
- Magenta (7%)
- Yellow (0%)
- Black (0%)



- Cyan (11%)
- Magenta (7%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 83.5418, 0.2955, 0.3096 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 83.5418, 0.2955, 0.3096 by changing the saturation by 10% instead.



83.5418, 0.2955,  
0.3096

83.5418, 0.2955,  
0.3096

506.7904, 0.3033,  
0.3183

62.6372, 0.2938,  
0.3077

138.3340, 0.2982,  
0.3126

45.5478, 0.2917,  
0.3053

172.9905, 0.2992,  
0.3138

31.8891, 0.2890,  
0.3024

212.9997, 0.3001,  
0.3148

21.2768, 0.2857,  
0.2986

258.7460, 0.3009,  
0.3157

13.3265, 0.2812,  
0.2936

310.6138, 0.3016,  
0.3164

7.6538, 0.2749,  
0.2866

368.9876, 0.3022,

3.8742, 0.2656,

0.3171

0.2762

434.2516, 0.3028,  
0.3178

■ 1.6034, 0.2503,  
0.2592

■ 0.3599, 0.1957,  
0.1967

■ 83.5418, 0.2955,  
0.3096

■ 83.5418, 0.2955,  
0.3096

■ 70.1955, 0.2787,  
0.2897

■ 98.4736, 0.3113,  
0.3274

■ 58.3767, 0.2609,  
0.2676

100.0000, 0.3127,  
0.3290

■ 48.0290, 0.2427,  
0.2435

■ 39.0910, 0.2245,  
0.2179

■ 31.4963, 0.2071,  
0.1915

■ 25.1729, 0.1913,  
0.1654

■ 20.0406, 0.1781,  
0.1406

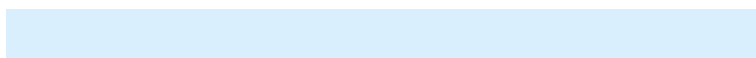
■ 16.0079, 0.1679,  
0.1184

■ 13.2002, 0.1615,  
0.1013

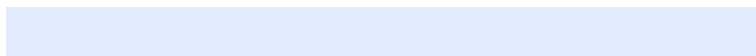
# Harmonies

## Analogous

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



83.5418, 0.2904, 0.3146



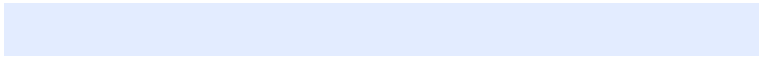
83.5418, 0.2955, 0.3096



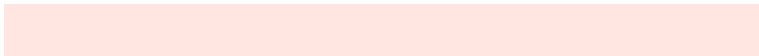
83.5418, 0.3052, 0.3098

# Triad

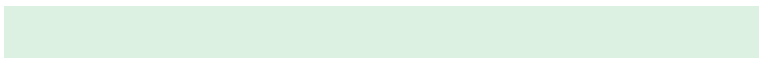
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



83.5418, 0.2955, 0.3096



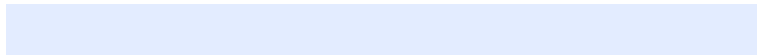
83.5418, 0.3347, 0.3337



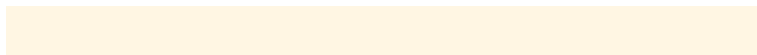
83.5418, 0.3081, 0.3439

# Complementary

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



83.5418, 0.2955, 0.3096



92.7492, 0.3301, 0.3476

# Split Complementary

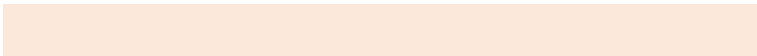
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



83.5418, 0.3200, 0.3491



83.5418, 0.2955, 0.3096



83.5418, 0.3355, 0.3430

# Square

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



83.5418, 0.2955, 0.3096



83.5418, 0.3279, 0.3235



83.5418, 0.3300, 0.3487

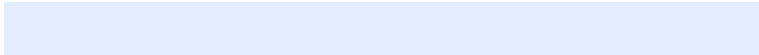


83.5418, 0.2976, 0.3344



# Rectangle

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



83.5418, 0.2955, 0.3096



83.5418, 0.3130, 0.3126



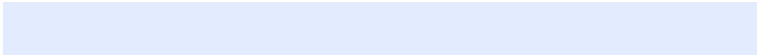
83.5418, 0.3300, 0.3487



83.5418, 0.3121, 0.3462

# Sweetspot

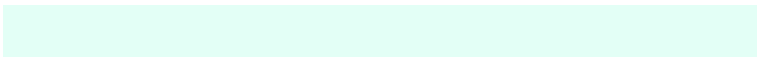
The Sweet Spot groups the original color and five complimentary colors.



83.5430, 0.2955, 0.3096



95.3043, 0.3082, 0.3240



94.4915, 0.3009, 0.3384



20.1357, 0.3069, 0.3226



0.0000, 0.0000, 0.0000

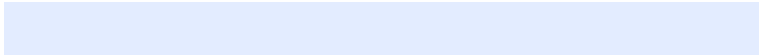


21.4041, 0.3127, 0.3290



# Same Dimension

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



83.5430, 0.2955, 0.3096



80.7001, 0.2922, 0.3058



79.2853, 0.2984, 0.3006



18.3270, 0.2979, 0.3124



7.1346, 0.1623, 0.1042



0.8822, 0.1685, 0.1264



# Inverse Universe

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



82.2753, 0.3264, 0.3202



79.2754, 0.3293, 0.3185



97.4551, 0.3261, 0.3564



18.0829, 0.3244, 0.3214



11.4482, 0.5696, 0.2911

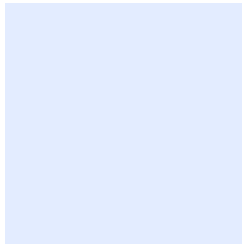


1.1336, 0.5376, 0.2735



# Previews

## White Background



This preview shows how the Yxy color 83.5418, 0.2955, 0.3096 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

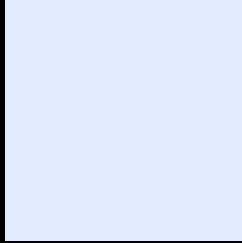
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 83.5418, 0.2955, 0.3096 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

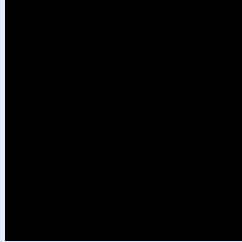
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

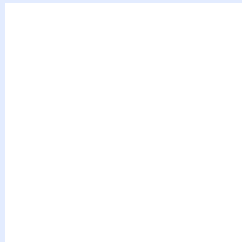
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 83.5418, 0.2955, 0.3096**

## **Background**



This preview shows how black text looks on a background with the Yxy color 83.5418, 0.2955, 0.3096.



This preview shows how white text looks on a background with the Yxy color 83.5418, 0.2955, 0.3096.

# 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

83.5418, 0.2955, 0.3096

### Protanopia

83.4938, 0.3005, 0.3089

### Deuteranopia

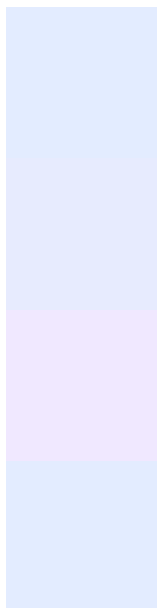
83.2151, 0.3092, 0.3035



## Tritanopia

83.5418, 0.2955, 0.3096

# Trichromacy



## Original Color

83.5418, 0.2955, 0.3096

## Protanomaly

83.5613, 0.2986, 0.3098

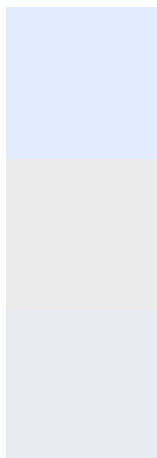
## Deuteranomaly

83.4585, 0.3038, 0.3061

## Tritanomaly

83.5418, 0.2955, 0.3096

# Monochromacy



## Original Color

83.5418, 0.2955, 0.3096

## Achromatopsia

83.0770, 0.3127, 0.3290

## Achromatomaly

82.9833, 0.3064, 0.3218

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 83.5418, 0.2955, 0.3096 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(227, 236, 255)` looks like.

```
.text, #text, p{  
    color:rgb(227, 236, 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(227, 236, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(227, 236, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 83.5418, 0.2955, 0.3096 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(227, 236, 255) }
```

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

```
.border{ border-color:rgb(227, 236, 255) }
```

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

Here you see how a box with a 4 pixel rgb(227, 236, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(227, 236, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(227, 236, 255);  
box-shadow:4px 4px 4px 4px rgb(227, 236,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 83.5418, 0.2955, 0.3096 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(227, 236, 255) }
```

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

```
.background{ background-color: rgb(227,  
236, 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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