

# Converting Colors

$Y_{xy}(83.6230, 0.2930, 0.3157)$

Have a look what the booklet for  
Yxy(83.6230, 0.2930, 0.3157)  
contains.

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# Color

**Yxy(83.9137, 0.2935, 0.3166)**

# Conversions

## Conversions Part 1

Format	Color
Hex	DCEFFB
RGB	220, 239, 251
RGB Percent	86%, 94%, 98%
CMY	0.1372, 0.0627, 0.0158
CMYK	0.12, 0.05, 0.00, 0.02
HSL	203°, 79%, 92%
HSV	203°, 12%, 98%
XYZ	77.7911, 83.9137, 103.3416
YIQ	234.6870, -15.1760, -0.2960

# Conversions

## Conversions Part 2

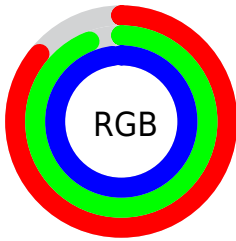
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	220, 232, 251
Decimal	14479355
CIE Lab	93.41, -3.91, -7.90
CIE LCh	93, 8.818, 243.693
Yxy	83.9137, 0.2935, 0.3166
Android (android.graphics.Color)	4292669435 (0xFFDCEFFB)
YUV	234.6870, 8.0423, -12.8805
Hunter-Lab	91.6044, -8.7243, -2.7637

# Details

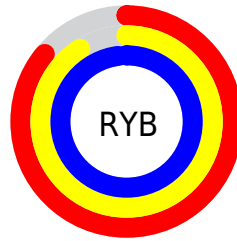
The Yxy color **83.9137, 0.2935, 0.3166** is a light color, and the websafe version is hex FFFFFFFF. A complement of this color would be **83.3684, 0.3336, 0.3411**, and the grayscale version is **82.7753, 0.3127, 0.3290**.

A 20% lighter version of the original color is **100.0000, 0.3127, 0.3290**, and **45.8064, 0.2890, 0.3130** is the 20% darker color. If you saturate the color by 10%, you get **74.7637, 0.2777, 0.3053**, and if you desaturate by 10%, it is **93.9633, 0.3091, 0.3268**.

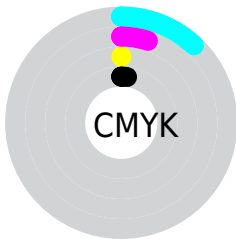
# Distribution



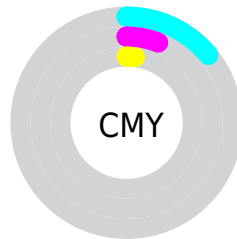
- Red (86%)
- Green (94%)
- Blue (98%)



- Red (86%)
- Yellow (91%)
- Blue (98%)



- Cyan (12%)
- Magenta (5%)
- Yellow (0%)
- Black (2%)



- Cyan (14%)
- Magenta (6%)
- Yellow (2%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 83.9137, 0.2935, 0.3166 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 83.9137, 0.2935, 0.3166 by changing the saturation by 10% instead.



83.9137, 0.2935,  
0.3166

83.9137, 0.2935,  
0.3166

508.0266, 0.3021,  
0.3222

62.9442, 0.2916,  
0.3153

138.8544, 0.2964,  
0.3185

45.7961, 0.2893,  
0.3138

173.5945, 0.2976,  
0.3193

32.0849, 0.2864,  
0.3118

213.6935, 0.2986,  
0.3200

21.4264, 0.2826,  
0.3093

259.5358, 0.2995,  
0.3205

13.4360, 0.2777,  
0.3060

311.5059, 0.3003,  
0.3210

7.7295, 0.2708,  
0.3012

369.9881, 0.3010,

3.9223, 0.2606,

0.3215

0.2940

435.3669, 0.3016,  
0.3219

■ 1.6302, 0.2440,  
0.2819

■ 0.3778, 0.1643,  
0.2353

■ 83.9137, 0.2935,  
0.3166

■ 83.9137, 0.2935,  
0.3166

■ 74.7637, 0.2777,  
0.3053

■ 93.9633, 0.3091,  
0.3268

■ 66.4718, 0.2620,  
0.2930

■ 99.7434, 0.3150,  
0.3328

■ 59.0087, 0.2468,  
0.2797

■ 52.3389, 0.2324,  
0.2656

■ 46.4237, 0.2194,  
0.2508

■ 41.2203, 0.2080,  
0.2357

■ 36.6799, 0.1987,  
0.2205

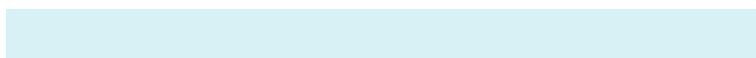
■ 32.7444, 0.1916,  
0.2057

■ 30.0754, 0.1874,  
0.1946

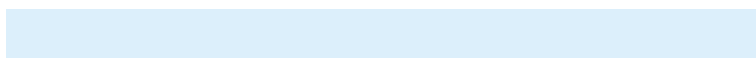
# Harmonies

## Analogous

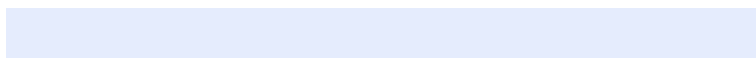
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



83.9137, 0.2942, 0.3244



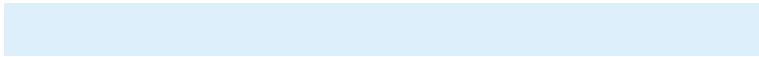
83.9137, 0.2935, 0.3166



83.9137, 0.2979, 0.3123

# Triad

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



83.9137, 0.2935, 0.3166



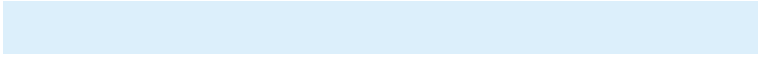
83.9137, 0.3258, 0.3243



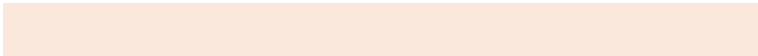
83.9137, 0.3190, 0.3463

# Complementary

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



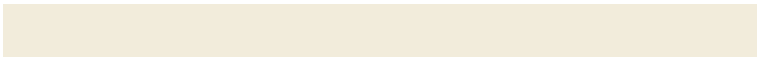
83.9137, 0.2935, 0.3166



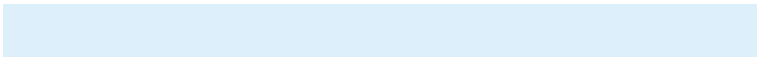
83.3684, 0.3336, 0.3411

# Split Complementary

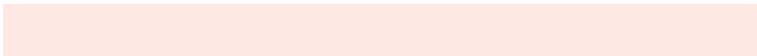
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



83.9137, 0.3276, 0.3460



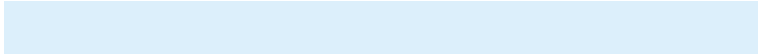
83.9137, 0.2935, 0.3166



83.9137, 0.3316, 0.3331

# Square

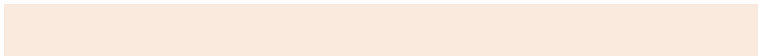
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



83.9137, 0.2935, 0.3166



83.9137, 0.3165, 0.3168



83.9137, 0.3323, 0.3411

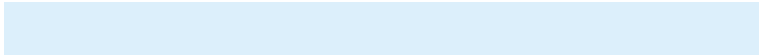


83.9137, 0.3088, 0.3418



# Rectangle

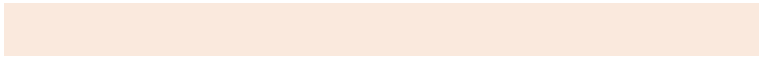
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



83.9137, 0.2935, 0.3166



83.9137, 0.3031, 0.3118



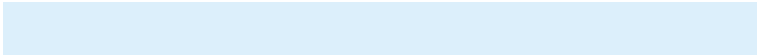
83.9137, 0.3323, 0.3411



83.9137, 0.3222, 0.3467

# Sweetspot

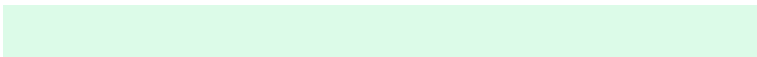
The Sweet Spot groups the original color and five complimentary colors.



83.9172, 0.2935, 0.3166



95.6277, 0.3065, 0.3252



90.0139, 0.3044, 0.3488



20.2959, 0.3054, 0.3244



0.0000, 0.0000, 0.0000

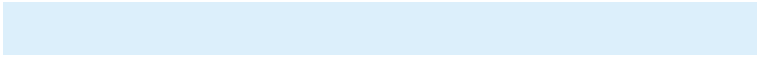


21.4041, 0.3127, 0.3290

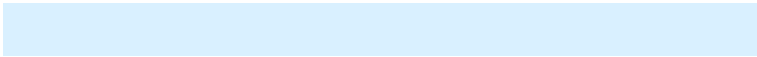


# Same Dimension

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



83.9172, 0.2935, 0.3166



84.3837, 0.2893, 0.3137



75.2850, 0.2931, 0.3003



18.4164, 0.2980, 0.3196



16.1034, 0.1881, 0.1970



1.6969, 0.1929, 0.2144



# Inverse Universe

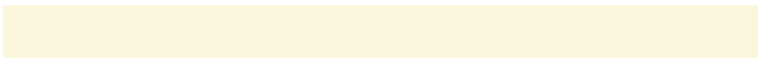
The Inverse Universe completely reimagines the original color for something new.



77.9251, 0.3221, 0.3101



77.0613, 0.3244, 0.3058



92.4149, 0.3317, 0.3561



17.4043, 0.3197, 0.3145



12.0365, 0.4487, 0.2245

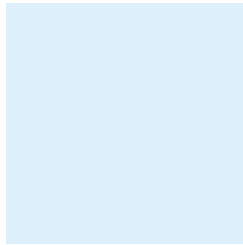


1.1355, 0.4293, 0.2138



# Previews

## White Background



This preview shows how the Yxy color 83.9137, 0.2935, 0.3166 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

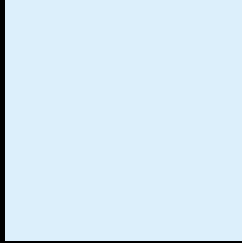
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 83.9137, 0.2935, 0.3166 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

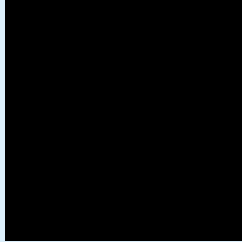
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

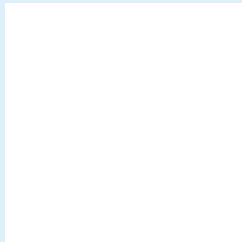
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 83.9137, 0.2935, 0.3166**

## **Background**



This preview shows how black text looks on a background with the Yxy color 83.9137, 0.2935, 0.3166.



This preview shows how white text looks on a background with the Yxy color 83.9137, 0.2935, 0.3166.

# 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

83.9137, 0.2935, 0.3166

### Protanopia

83.4558, 0.3054, 0.3149

### Deuteranopia

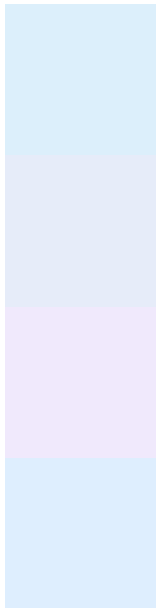
83.6397, 0.3125, 0.3055



## Tritanopia

84.0570, 0.2930, 0.3116

# Trichromacy



## Original Color

83.9137, 0.2935, 0.3166

## Protanomaly

83.6535, 0.3009, 0.3157

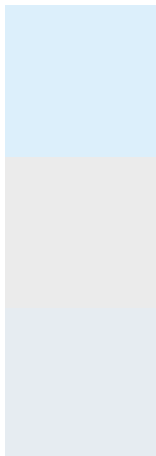
## Deuteranomaly

83.8314, 0.3056, 0.3100

## Tritanomaly

83.8344, 0.2930, 0.3125

# Monochromacy



## Original Color

83.9137, 0.2935, 0.3166

## Achromatopsia

83.0770, 0.3127, 0.3290

## Achromatomaly

83.1648, 0.3057, 0.3238

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 83.9137, 0.2935, 0.3166 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(220, 239, 251)` looks like.

```
.text, #text, p{  
    color:rgb(220, 239, 251)  
}
```

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(220, 239, 251) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(220, 239, 251) }
```

## Border

The CSS property to change the border of an element to Yxy 83.9137, 0.2935, 0.3166 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(220, 239, 251) }
```

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

```
.border{ border-color:rgb(220, 239, 251) }
```

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

Here you see how a box with a 4 pixel rgb(220, 239, 251) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(220, 239, 251); -webkit-box-  
shadow:4px 4px 4px 4px rgb(220, 239, 251);  
box-shadow:4px 4px 4px 4px rgb(220, 239,  
251) }
```



# Background

The CSS property to change the background color of an element to Yxy 83.9137, 0.2935, 0.3166 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(220, 239, 251) }
```

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

```
.background{ background-color: rgb(220,  
239, 251) }
```

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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