

# Converting Colors

$Y_{xy}(83.7649, 0.2908, 0.3152)$

Have a look what the booklet for  
Yxy(83.7649, 0.2908, 0.3152)  
contains.

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# Color

**Yxy(83.5766, 0.2905, 0.3145)**

# Conversions

## Conversions Part 1

Format	Color
Hex	D9EFFD
RGB	217, 239, 253
RGB Percent	85%, 94%, 99%
CMY	0.1492, 0.0627, 0.0079
CMYK	0.14, 0.06, 0.00, 0.01
HSL	203°, 90%, 92%
HSV	203°, 14%, 99%
XYZ	77.1987, 83.5766, 104.9690
YIQ	234.0180, -17.6060, -0.3100

# Conversions

## Conversions Part 2

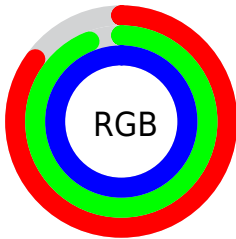
Format	Color
R <sub>Y</sub> B	217, 231, 253
Decimal	14282749
CIE Lab	93.27, -4.47, -9.18
CIE LCh	93, 10.212, 244.068
Yxy	83.5766, 0.2905, 0.3145
Android (android.graphics.Color)	4292472829 (0xFFD9E9FD)
YUV	234.0180, 9.3581, -14.9248
Hunter-Lab	91.4202, -9.2532, -4.0828

# Details

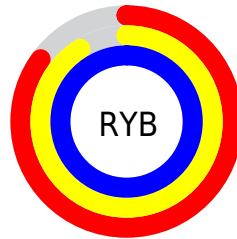
The Yxy color **83.5766, 0.2905, 0.3145** is a light color, and the websafe version is hex FFFFFFFF. A complement of this color would be **82.9904, 0.3372, 0.3431**, and the grayscale version is **82.2281, 0.3127, 0.3290**.

A 20% lighter version of the original color is **100.0000, 0.3127, 0.3290**, and **45.5339, 0.2860, 0.3116** is the 20% darker color. If you saturate the color by 10%, you get **74.4112, 0.2747, 0.3030**, and if you desaturate by 10%, it is **93.6545, 0.3062, 0.3249**.

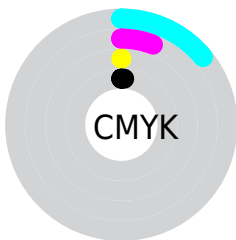
# Distribution



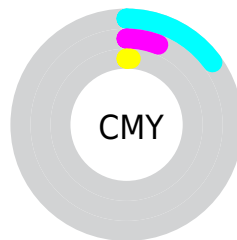
- Red (85%)
- Green (94%)
- Blue (99%)



- Red (85%)
- Yellow (91%)
- Blue (99%)



- Cyan (14%)
- Magenta (6%)
- Yellow (0%)
- Black (1%)



- Cyan (15%)
- Magenta (6%)
- Yellow (1%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 83.5766, 0.2905, 0.3145 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 83.5766, 0.2905, 0.3145 by changing the saturation by 10% instead.



83.5766, 0.2905,  
0.3145

83.5766, 0.2905,  
0.3145

506.9062, 0.3005,  
0.3211

62.6659, 0.2883,  
0.3130

138.3827, 0.2939,  
0.3168

45.5710, 0.2856,  
0.3112

173.0470, 0.2952,  
0.3177

31.9074, 0.2823,  
0.3089

213.0646, 0.2964,  
0.3184

21.2908, 0.2780,  
0.3060

258.8199, 0.2974,  
0.3191

13.3367, 0.2723,  
0.3020

310.6973, 0.2983,  
0.3197

7.6608, 0.2644,  
0.2964

369.0812, 0.2991,

3.8787, 0.2527,

0.3202

0.2880

434.3561, 0.2998,  
0.3207

■ 1.6059, 0.2336,  
0.2739

■ 0.3616, 0.1436,  
0.2213

■ 83.5766, 0.2905,  
0.3145

■ 83.5766, 0.2905,  
0.3145

■ 74.4112, 0.2747,  
0.3030

■ 93.6545, 0.3062,  
0.3249

■ 66.1159, 0.2590,  
0.2904

99.8702, 0.3139,  
0.3309

■ 58.6601, 0.2439,  
0.2769

■ 52.0072, 0.2298,  
0.2626

■ 46.1168, 0.2170,  
0.2477

■ 40.9443, 0.2060,  
0.2325

■ 36.4384, 0.1971,  
0.2173

■ 32.5373, 0.1904,  
0.2025

■ 30.5152, 0.1873,  
0.1941

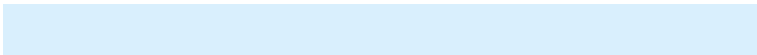
# Harmonies

## Analogous

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



83.5766, 0.2912, 0.3235



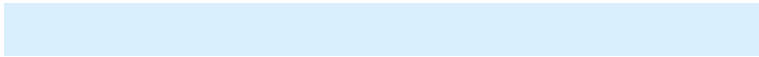
83.5766, 0.2905, 0.3145



83.5766, 0.2956, 0.3096

# Triad

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



83.5766, 0.2905, 0.3145



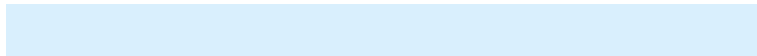
83.5766, 0.3280, 0.3236



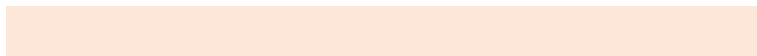
83.5766, 0.3198, 0.3491

# Complementary

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



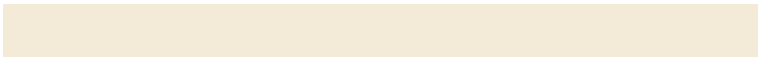
83.5766, 0.2905, 0.3145



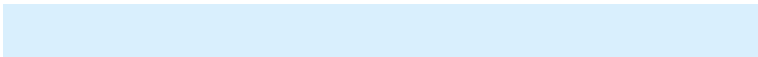
82.9904, 0.3372, 0.3431

# Split Complementary

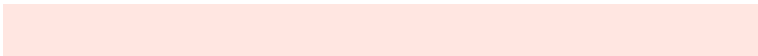
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



83.5766, 0.3299, 0.3487



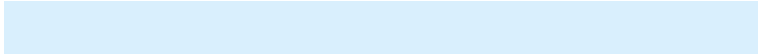
83.5766, 0.2905, 0.3145



83.5766, 0.3347, 0.3339

# Square

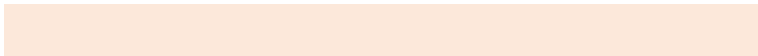
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



83.5766, 0.2905, 0.3145



83.5766, 0.3172, 0.3149



83.5766, 0.3354, 0.3431

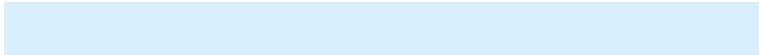


83.5766, 0.3080, 0.3437



# Rectangle

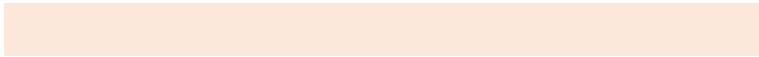
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



83.5766, 0.2905, 0.3145



83.5766, 0.3017, 0.3092



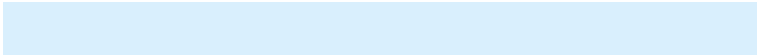
83.5766, 0.3354, 0.3431



83.5766, 0.3235, 0.3496

# Sweetspot

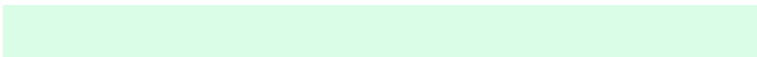
The Sweet Spot groups the original color and five complimentary colors.



83.5801, 0.2905, 0.3145



95.6206, 0.3065, 0.3251



90.7365, 0.3031, 0.3521



20.2941, 0.3054, 0.3244



0.0000, 0.0000, 0.0000

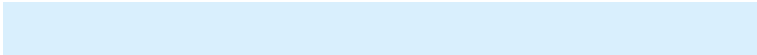


21.4041, 0.3127, 0.3290

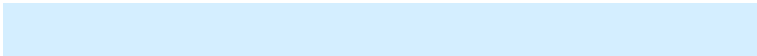


# Same Dimension

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



83.5801, 0.2905, 0.3145



82.4318, 0.2861, 0.3114



73.6345, 0.2899, 0.2955



19.2301, 0.2979, 0.3196



16.5279, 0.1879, 0.1965



1.8214, 0.1926, 0.2132



# Inverse Universe

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



76.7164, 0.3238, 0.3071



74.3571, 0.3263, 0.3026



93.4966, 0.3347, 0.3604



18.1741, 0.3198, 0.3145



12.3965, 0.4493, 0.2249

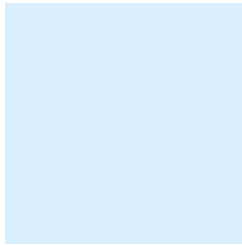


1.2284, 0.4306, 0.2146



# Previews

## White Background



This preview shows how the Yxy color 83.5766, 0.2905, 0.3145 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

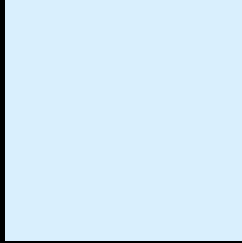
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 83.5766, 0.2905, 0.3145 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

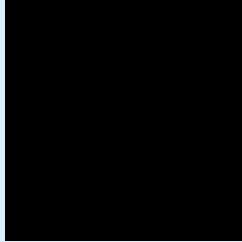
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

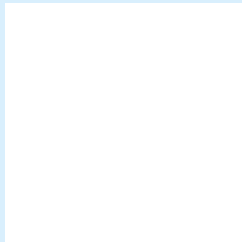
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 83.5766, 0.2905, 0.3145**

## **Background**



This preview shows how black text looks on a background with the Yxy color 83.5766, 0.2905, 0.3145.



This preview shows how white text looks on a background with the Yxy color 83.5766, 0.2905, 0.3145.

# 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

83.5766, 0.2905, 0.3145

### Protanopia

83.4099, 0.3036, 0.3128

### Deuteranopia

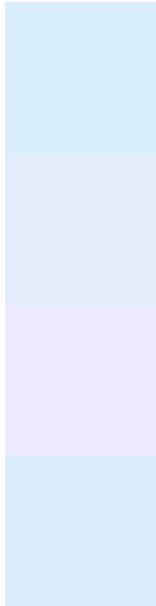
83.3984, 0.3099, 0.3035



## Tritanopia

83.5847, 0.2912, 0.3115

# Trichromacy



## Original Color

83.5766, 0.2905, 0.3145

## Protanomaly

83.4499, 0.2985, 0.3137

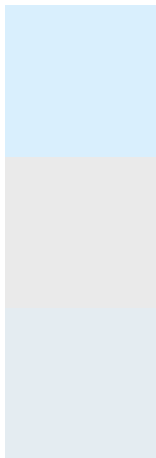
## Deuteranomaly

83.4381, 0.3025, 0.3080

## Tritanomaly

83.3649, 0.2911, 0.3125

# Monochromacy



## Original Color

83.5766, 0.2905, 0.3145

## Achromatopsia

82.2786, 0.3127, 0.3290

## Achromatomaly

82.8358, 0.3044, 0.3238

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 83.5766, 0.2905, 0.3145 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(217, 239, 253)` looks like.

```
.text, #text, p{  
    color:rgb(217, 239, 253)  
}
```

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(217, 239, 253) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(217, 239, 253) }
```

## Border

The CSS property to change the border of an element to Yxy 83.5766, 0.2905, 0.3145 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(217, 239, 253) }
```

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

```
.border{ border-color:rgb(217, 239, 253) }
```

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

Here you see how a box with a 4 pixel rgb(217, 239, 253) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(217, 239, 253); -webkit-box-  
shadow:4px 4px 4px 4px rgb(217, 239, 253);  
box-shadow:4px 4px 4px 4px rgb(217, 239,  
253) }
```



# Background

The CSS property to change the background color of an element to Yxy 83.5766, 0.2905, 0.3145 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(217, 239, 253) }
```

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

```
.background{ background-color: rgb(217,  
239, 253) }
```

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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