

# Converting Colors

$Yxy(83.6338, 0.2818, 0.3154)$

Have a look what the booklet for  
Yxy(83.6338, 0.2818, 0.3154)  
contains.

<b>Yxy(83.5616, 0.2818, 0.3152)</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(83.5616, 0.2818, 0.3152)**

# Conversions

## Conversions Part 1

Format	Color
Hex	CCF2FF
RGB	204, 242, 255
RGB Percent	80%, 95%, 100%
CMY	0.2000, 0.0510, 0.0000
CMYK	0.20, 0.05, 0.00, 0.00
HSL	195°, 100%, 90%
HSV	195°, 20%, 100%
XYZ	74.7070, 83.5616, 106.8380
YIQ	232.1200, -26.8210, -4.0130

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
<b>RYB</b>	204, 226, 255
Decimal	13431551
CIELab	93.26, -9.51, -10.36
CIELCh	93, 14.065, 227.447
Yxy	83.5616, 0.2818, 0.3152
Android (android.graphics.Color)	4291621631 (0xFFCCCF2FF)
YUV	232.1200, 11.2798, -24.6612
Hunter-Lab	91.4120, -14.0909, -5.3069

# Details

The Yxy color **83.5616, 0.2818, 0.3152** is a light color, and the websafe version is hex **CCFFFF**. A complement of this color would be **75.2374, 0.3501, 0.3423**, and the grayscale version is **80.7177, 0.3127, 0.3290**.

A 20% lighter version of the original color is **100.0000, 0.3127, 0.3290**, and **45.5846, 0.2753, 0.3126** is the 20% darker color. If you saturate the color by 10%, you get **76.4499, 0.2669, 0.3074**, and if you desaturate by 10%, it is **91.4013, 0.2972, 0.3225**.

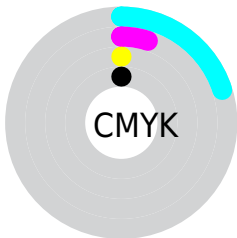
# Distribution



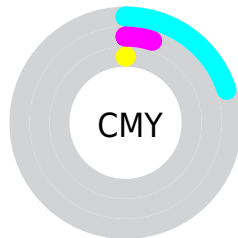
- Red (80%)
- Green (95%)
- Blue (100%)



- Red (80%)
- Yellow (89%)
- Blue (100%)



- Cyan (20%)
- Magenta (5%)
- Yellow (0%)
- Black (0%)



- Cyan (20%)
- Magenta (5%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 83.5616, 0.2818, 0.3152 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 83.5616, 0.2818, 0.3152 by changing the saturation by 10% instead.



83.5616, 0.2818,  
0.3152

83.5616, 0.2818,  
0.3152

506.8563, 0.2956,  
0.3216

62.6535, 0.2788,  
0.3137

138.3618, 0.2865,  
0.3174

45.5610, 0.2751,  
0.3120

173.0226, 0.2884,  
0.3183

31.8995, 0.2704,  
0.3097

213.0366, 0.2900,  
0.3190

21.2848, 0.2646,  
0.3067

258.7880, 0.2914,  
0.3197

13.3323, 0.2568,  
0.3028

310.6613, 0.2926,  
0.3202

7.6578, 0.2461,  
0.2971

369.0409, 0.2937,

3.8768, 0.2304,

0.3207

0.2883

434.3111, 0.2947,  
0.3212

■ 1.6049, 0.2054,  
0.2734

■ 0.3609, 0.0694,  
0.2259

■ 83.5616, 0.2818,  
0.3152

■ 83.5616, 0.2818,  
0.3152

■ 76.4499, 0.2669,  
0.3074

■ 91.4013, 0.2972,  
0.3225

■ 70.0350, 0.2528,  
0.2990

99.9961, 0.3127,  
0.3290

■ 64.2847, 0.2397,  
0.2901

100.0000, 0.3127,  
0.3290

■ 59.1637, 0.2282,  
0.2807

■ 54.6323, 0.2184,  
0.2712

■ 50.6455, 0.2106,  
0.2615

■ 47.1498, 0.2048,  
0.2519

■ 44.0600, 0.2007,  
0.2425

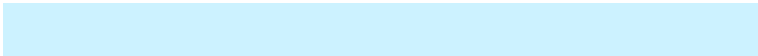
# Harmonies

## Analogous

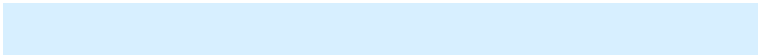
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



83.5616, 0.2871, 0.3295



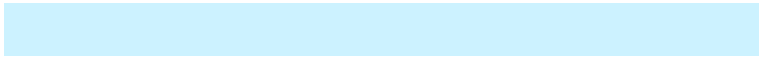
83.5616, 0.2818, 0.3152



83.5616, 0.2845, 0.3052

# Triad

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



83.5616, 0.2818, 0.3152



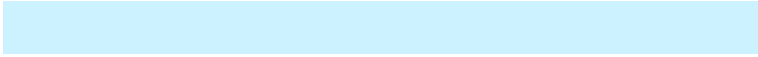
83.5616, 0.3259, 0.3146



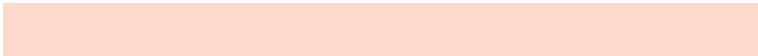
83.5616, 0.3307, 0.3575

# Complementary

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



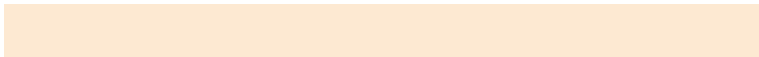
83.5616, 0.2818, 0.3152



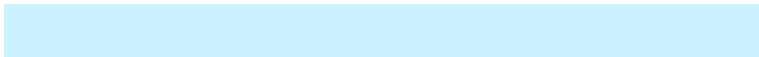
75.2374, 0.3501, 0.3423

# Split Complementary

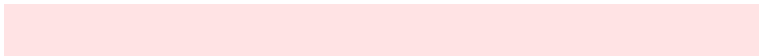
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



83.5616, 0.3416, 0.3525



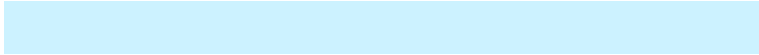
83.5616, 0.2818, 0.3152



83.5616, 0.3389, 0.3277

# Square

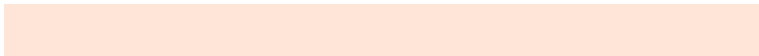
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



83.5616, 0.2818, 0.3152



83.5616, 0.3096, 0.3052



83.5616, 0.3447, 0.3415

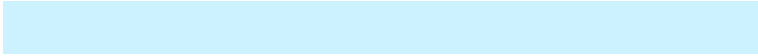


83.5616, 0.3152, 0.3545



# Rectangle

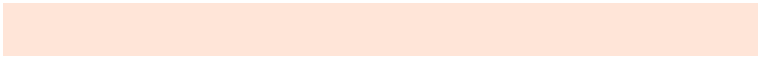
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



83.5616, 0.2818, 0.3152



83.5616, 0.2904, 0.3021



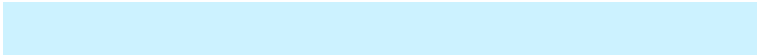
83.5616, 0.3447, 0.3415



83.5616, 0.3351, 0.3566

# Sweetspot

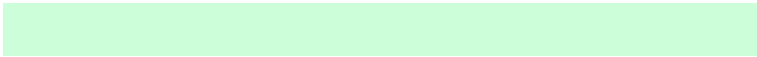
The Sweet Spot groups the original color and five complimentary colors.



83.5620, 0.2818, 0.3153



94.7508, 0.3034, 0.3252



89.3521, 0.3031, 0.3702



20.1618, 0.3024, 0.3247



0.0000, 0.0000, 0.0000

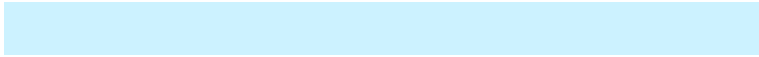


21.4041, 0.3127, 0.3290

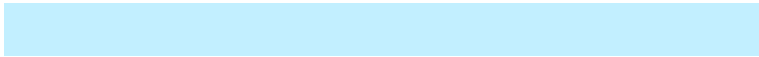


# Same Dimension

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



83.5620, 0.2818, 0.3153



80.6346, 0.2758, 0.3122



69.5484, 0.2801, 0.2877



19.6517, 0.2980, 0.3228



23.2745, 0.2011, 0.2440



2.4412, 0.2041, 0.2549



# Inverse Universe

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



70.8514, 0.3242, 0.2913



66.0107, 0.3269, 0.2835



89.2706, 0.3453, 0.3671



18.2166, 0.3177, 0.3115



13.0775, 0.3982, 0.1967

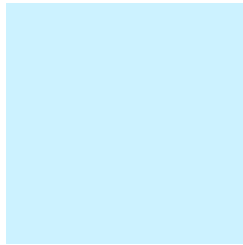


1.2910, 0.3874, 0.1908



# Previews

## White Background



This preview shows how the Yxy color 83.5616, 0.2818, 0.3152 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

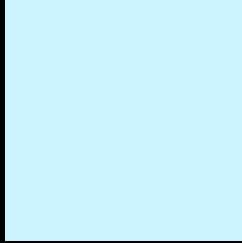
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 83.5616, 0.2818, 0.3152 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

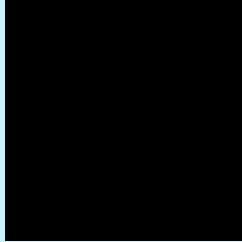
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 83.5616, 0.2818, 0.3152**

## **Background**



This preview shows how black text looks on a background with the Yxy color 83.5616, 0.2818, 0.3152.



This preview shows how white text looks on a background with the Yxy color 83.5616, 0.2818, 0.3152.

# 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

83.5616, 0.2818, 0.3152

### Protanopia

83.4099, 0.3036, 0.3128

### Deuteranopia

83.4065, 0.3078, 0.3044



## Tritanopia

83.5372, 0.2864, 0.3133

# Trichromacy



**Original Color**

83.5616, 0.2818, 0.3152

**Protanomaly**

83.4439, 0.2954, 0.3136

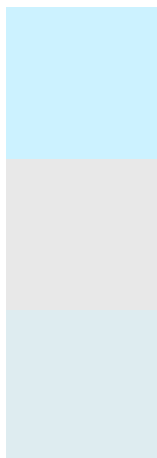
**Deuteranomaly**

83.0546, 0.2980, 0.3077

**Tritanomaly**

83.6859, 0.2847, 0.3143

# Monochromacy



**Original Color**

83.5616, 0.2818, 0.3152

**Achromatopsia**

80.6952, 0.3127, 0.3290

**Achromatomaly**

81.8118, 0.3011, 0.3248

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 83.5616, 0.2818, 0.3152 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(204, 242, 255)` looks like.

```
.text, #text, p{  
    color:rgb(204, 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(204, 242, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(204, 242, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 83.5616, 0.2818, 0.3152 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(204, 242, 255) }
```

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

```
.border{ border-color:rgb(204, 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(204, 242, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(204, 242, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(204, 242, 255);  
box-shadow:4px 4px 4px 4px rgb(204, 242,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 83.5616, 0.2818, 0.3152 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(204, 242, 255) }
```

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

```
.background{ background-color: rgb(204,  
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](#).

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