

# Converting Colors

$Y_{xy}(109.2957, 0.2599, 0.3748)$

Have a look what the booklet for  
Yxy(109.2957, 0.2599, 0.3748)  
contains.

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# Color

**Yxy(83.5938, 0.2530, 0.3357)**

# Conversions

## Conversions Part 1

Format	Color
Hex	88FFF9
RGB	136, 255, 249
RGB Percent	53%, 100%, 98%
CMY	0.4669, 0.0000, 0.0236
CMYK	0.47, 0.00, 0.02, 0.00
HSL	177°, 100%, 77%
HSV	177°, 47%, 100%
XYZ	63.0004, 83.5938, 102.4192
YIQ	218.7350, -68.9980, -27.0940

# Conversions

## Conversions Part 2

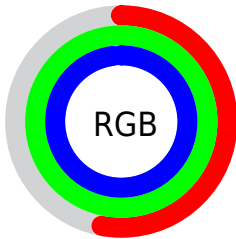
<b>Format</b>	<b>Color</b>
<b>RYB</b>	136, 197, 255
Decimal	8978425
CIELab	93.27, -35.06, -7.56
CIElCh	93, 35.862, 192.167
Yxy	83.5938, 0.2530, 0.3357
Android (android.graphics.Color)	4287168505 (0xFF88FFF9)
YUV	218.7350, 14.9206, -72.5586
Hunter-Lab	91.4296, -37.0049, -2.4157

# Details

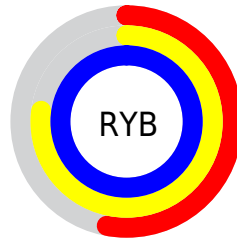
The Yxy color **83.5938, 0.2530, 0.3357** is a light color, and the websafe version is hex **99FFFF**. A complement of this color would be **40.8000, 0.4349, 0.3231**, and the grayscale version is **70.5582, 0.3127, 0.3290**.

A 20% lighter version of the original color is **90.4758, 0.2784, 0.3289**, and **45.6943, 0.2402, 0.3363** is the 20% darker color. If you saturate the color by 10%, you get **81.6207, 0.2444, 0.3373**, and if you desaturate by 10%, it is **86.0608, 0.2634, 0.3341**.

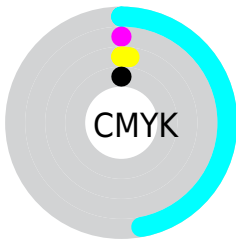
# Distribution



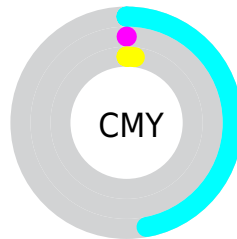
- Red (53%)
- Green (100%)
- Blue (98%)



- Red (53%)
- Yellow (77%)
- Blue (100%)



- Cyan (47%)
- Magenta (0%)
- Yellow (2%)
- Black (0%)




- Cyan (47%)
- Magenta (0%)
- Yellow (2%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 83.5938, 0.2530, 0.3357 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 83.5938, 0.2530, 0.3357 by changing the saturation by 10% instead.





 83.5938, 0.2530,  
0.3357

 83.5938, 0.2530,  
0.3357


506.9634, 0.2795,  
0.3332

 62.6801, 0.2472,  
0.3361


 138.4068, 0.2620,  
0.3349

 45.5825, 0.2402,  
0.3366


 173.0750, 0.2655,  
0.3346

 31.9165, 0.2316,  
0.3371

213.0967, 0.2686,  
0.3343

 21.2977, 0.2206,  
0.3376

258.8564, 0.2713,  
0.3341

 13.3418, 0.2063,  
0.3379

310.7386, 0.2737,  
0.3338

 7.6643, 0.1869,  
0.3379

369.1275, 0.2759,

 3.8809, 0.1596,

0.3336

434.4077, 0.2778,  
0.3334

0.3368

1.6072, 0.1125,  
0.3343

0.3624, 0.0000,  
0.2819

83.5938, 0.2530,  
0.3357

83.5938, 0.2530,  
0.3357

81.6207, 0.2444,  
0.3373

86.0608, 0.2634,  
0.3341

80.1265, 0.2378,  
0.3390

89.0762, 0.2753,  
0.3326

79.0624, 0.2331,  
0.3407

92.6631, 0.2885,  
0.3311

78.3798, 0.2303,  
0.3424

96.8495, 0.3028,  
0.3298

■ 78.0173, 0.2292,  
0.3441

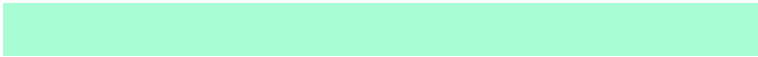
100.0000, 0.3127,  
0.3290

■ 77.9372, 0.2291,  
0.3446

# Harmonies

## Analogous

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



83.5938, 0.2843, 0.3749



83.5938, 0.2530, 0.3357



83.5938, 0.2376, 0.2976

# Triad

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



83.5938, 0.2530, 0.3357



83.5938, 0.2966, 0.2687



83.5938, 0.3893, 0.3822

# Complementary

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



83.5938, 0.2530, 0.3357



40.8000, 0.4349, 0.3231

# 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.



83.5938, 0.3942, 0.3517



83.5938, 0.2530, 0.3357



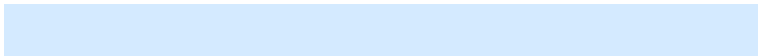
83.5938, 0.3386, 0.2888

# Square

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



83.5938, 0.2530, 0.3357



83.5938, 0.2614, 0.2622



83.5938, 0.3752, 0.3183



83.5938, 0.3633, 0.4012



# Rectangle

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



83.5938, 0.2530, 0.3357



83.5938, 0.2376, 0.2786



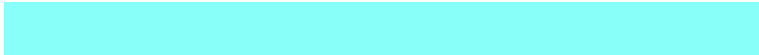
83.5938, 0.3752, 0.3183



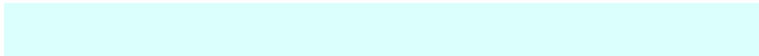
83.5938, 0.3936, 0.3729

# Sweetspot

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



83.5866, 0.2530, 0.3357



93.7309, 0.2923, 0.3308



79.2130, 0.3100, 0.4751



19.8785, 0.2893, 0.3311



0.0000, 0.0000, 0.0000

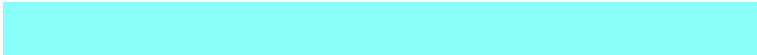


21.4041, 0.3127, 0.3290



# Same Dimension

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



83.5866, 0.2530, 0.3357



81.7415, 0.2450, 0.3372



55.3508, 0.2390, 0.2665



20.4647, 0.2987, 0.3302



40.7308, 0.2290, 0.3444



3.9705, 0.2285, 0.3424



# Inverse Universe

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



40.8000, 0.4349, 0.3231



34.2346, 0.4748, 0.3224



58.8002, 0.4137, 0.3827



18.0020, 0.3287, 0.3278



11.1300, 0.6350, 0.3272

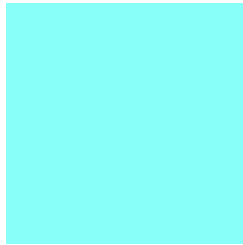


1.0887, 0.6231, 0.3206



# Previews

## White Background



This preview shows how the Yxy color 83.5938, 0.2530, 0.3357 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

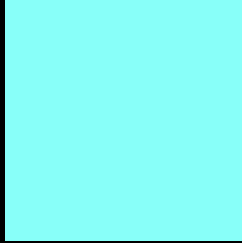
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 83.5938, 0.2530, 0.3357 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

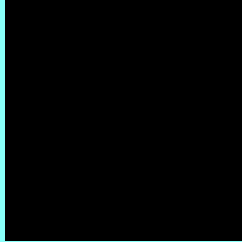
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 83.5938, 0.2530, 0.3357**

## **Background**



This preview shows how black text looks on a background with the Yxy color 83.5938, 0.2530, 0.3357.

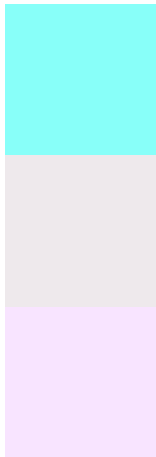


This preview shows how white text looks on a background with the Yxy color 83.5938, 0.2530, 0.3357.

# 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

83.5938, 0.2530, 0.3357

### Protanopia

82.5111, 0.3142, 0.3259

### Deuteranopia

82.6633, 0.3092, 0.3025



## Tritanopia

83.2588, 0.2758, 0.3172

# Trichromacy



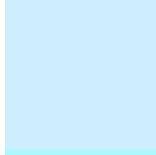
## Original Color

83.5938, 0.2530, 0.3357



## Protanomaly

81.6790, 0.2876, 0.3289



## Deuteranomaly

81.5063, 0.2844, 0.3131



## Tritanomaly

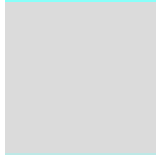
82.9973, 0.2662, 0.3234

# Monochromacy



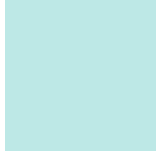
## Original Color

83.5938, 0.2530, 0.3357



## Achromatopsia

70.8376, 0.3127, 0.3290



## Achromatomaly

74.2452, 0.2860, 0.3312

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 83.5938, 0.2530, 0.3357 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(136, 255, 249)` looks like.

```
.text, #text, p{  
    color:rgb(136, 255, 249)  
}
```

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(136, 255, 249) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(136, 255, 249) }
```

## Border

The CSS property to change the border of an element to Yxy 83.5938, 0.2530, 0.3357 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(136, 255, 249) }
```

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

```
.border{ border-color:rgb(136, 255, 249) }
```

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

Here you see how a box with a 4 pixel `rgb(136, 255, 249)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(136, 255, 249); -webkit-box-  
shadow:4px 4px 4px 4px rgb(136, 255, 249);  
box-shadow:4px 4px 4px 4px rgb(136, 255,  
249) }
```



# Background

The CSS property to change the background color of an element to Yxy 83.5938, 0.2530, 0.3357 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(136, 255, 249) }
```

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

```
.background{ background-color: rgb(136,  
255, 249) }
```

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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