

# Converting Colors

$Yxy(83.9048, 0.2698, 0.3597)$

Have a look what the booklet for  
Yxy(83.9048, 0.2698, 0.3597)  
contains.

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# Color

**Yxy(83.8937, 0.2699, 0.3599)**

# Conversions

## Conversions Part 1

Format	Color
Hex	99FFE4
RGB	153, 255, 228
RGB Percent	60%, 100%, 89%
CMY	0.3997, 0.0000, 0.1058
CMYK	0.40, 0.00, 0.11, 0.00
HSL	164°, 100%, 80%
HSV	164°, 40%, 100%
XYZ	62.9144, 83.8937, 86.2947
YIQ	221.4240, -52.1250, -30.0210

# Conversions

## Conversions Part 2

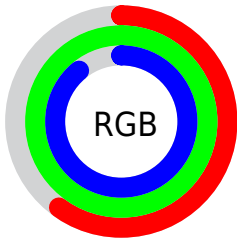
<b>Format</b>	<b>Color</b>
<b>RYB</b>	153, 212, 255
Decimal	10092516
CIELab	93.40, -35.82, 3.54
CIELCh	93, 35.992, 174.351
Yxy	83.8937, 0.2699, 0.3599
Android (android.graphics.Color)	4288282596 (0xFF99FFE4)
YUV	221.4240, 3.2420, -60.0078
Hunter-Lab	91.5935, -37.6792, 8.2555

# Details

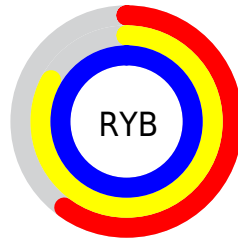
The Yxy color **83.8937, 0.2699, 0.3599** is a light color, and the websafe version is hex **99FFCC**. A complement of this color would be **47.3649, 0.3868, 0.3009**, and the grayscale version is **72.6398, 0.3127, 0.3290**.

A 20% lighter version of the original color is **92.5889, 0.2866, 0.3289**, and **45.8921, 0.2602, 0.3668** is the 20% darker color. If you saturate the color by 10%, you get **81.3062, 0.2619, 0.3692**, and if you desaturate by 10%, it is **87.0328, 0.2793, 0.3512**.

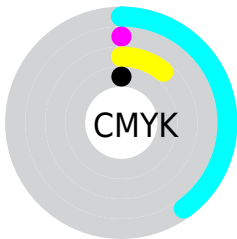
# Distribution



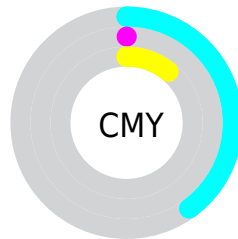
- Red (60%)
- Green (100%)
- Blue (89%)



- Red (60%)
- Yellow (83%)
- Blue (100%)



- Cyan (40%)
- Magenta (0%)
- Yellow (11%)
- Black (0%)




- Cyan (40%)
- Magenta (0%)
- Yellow (11%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 83.8937, 0.2699, 0.3599 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 83.8937, 0.2699, 0.3599 by changing the saturation by 10% instead.



 83.8937, 0.2699,  
0.3599


 83.8937, 0.2699,  
0.3599


507.9602, 0.2893,  
0.3458

 62.9277, 0.2656,  
0.3631


 138.8265, 0.2765,  
0.3550

 45.7827, 0.2603,  
0.3670


 173.5620, 0.2791,  
0.3531

 32.0744, 0.2537,  
0.3719


213.6562, 0.2814,  
0.3515

 21.4183, 0.2453,  
0.3783

259.4933, 0.2833,  
0.3501

 13.4301, 0.2340,  
0.3869

311.4579, 0.2851,  
0.3488

 7.7254, 0.2183,  
0.3991

369.9344, 0.2866,

 3.9197, 0.1951,

0.3477

0.4177

435.3070, 0.2880,  
0.3467

■ 1.6288, 0.1493,  
0.4535

■ 0.3769, 0.0000,  
0.6985

■ 83.8937, 0.2699,  
0.3599

■ 83.8937, 0.2699,  
0.3599

■ 81.3062, 0.2619,  
0.3692

■ 87.0328, 0.2793,  
0.3512

■ 79.2259, 0.2556,  
0.3788

■ 90.7446, 0.2898,  
0.3431

■ 77.6180, 0.2512,  
0.3888

■ 95.0612, 0.3010,  
0.3357

■ 76.4388, 0.2488,  
0.3989

99.9937, 0.3127,  
0.3290

■ 75.6363, 0.2484,  
0.4089

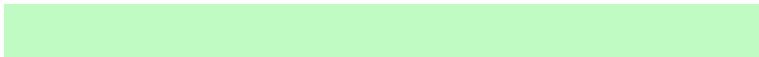
■ 75.1257, 0.2497,  
0.4188

■ 75.1241, 0.2497,  
0.4189

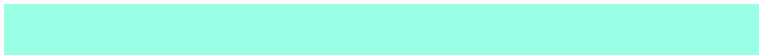
# Harmonies

## Analogous

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



83.8937, 0.3077, 0.3923



83.8937, 0.2699, 0.3599



83.8937, 0.2444, 0.3193

# Triad

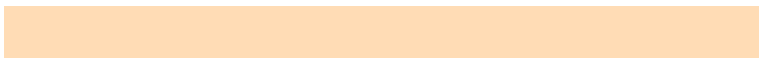
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



83.8937, 0.2699, 0.3599



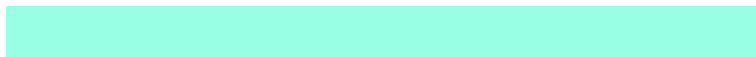
83.8937, 0.2742, 0.2629



83.8937, 0.3953, 0.3650

# Complementary

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



83.8937, 0.2699, 0.3599



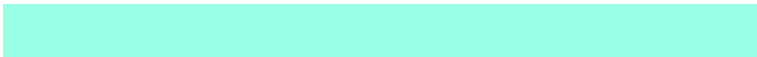
47.3649, 0.3868, 0.3009

# 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.



83.8937, 0.3858, 0.3317



83.8937, 0.2699, 0.3599



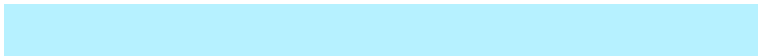
83.8937, 0.3134, 0.2753

# Square

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



83.8937, 0.2699, 0.3599



83.8937, 0.2469, 0.2657



83.8937, 0.3550, 0.2998

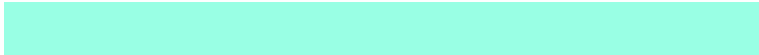


83.8937, 0.3811, 0.3920



# Rectangle

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



83.8937, 0.2699, 0.3599



83.8937, 0.2370, 0.2951



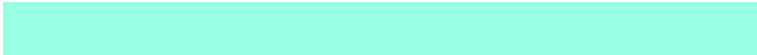
83.8937, 0.3550, 0.2998



83.8937, 0.3948, 0.3542

# Sweetspot

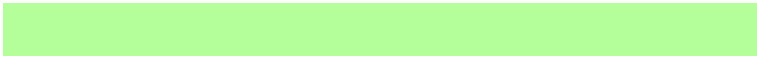
The Sweet Spot groups the original color and five complimentary colors.



83.8971, 0.2699, 0.3599



94.1408, 0.2987, 0.3371



83.5507, 0.3229, 0.4466



20.0253, 0.2972, 0.3381



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290



# Same Dimension

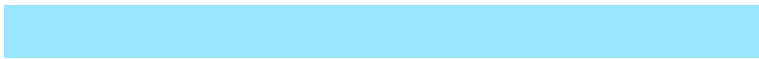
The Same Dimension uses a secret algorithm to generate beautiful new colors.



83.8971, 0.2699, 0.3599



81.7810, 0.2634, 0.3673



71.2702, 0.2532, 0.3016



20.3946, 0.3015, 0.3354



39.2834, 0.2492, 0.4172



3.8430, 0.2461, 0.4058



# Inverse Universe

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



47.3649, 0.3868, 0.3009



40.6418, 0.4100, 0.2956



54.9503, 0.4041, 0.3543



18.0660, 0.3252, 0.3227



11.3443, 0.5889, 0.3018

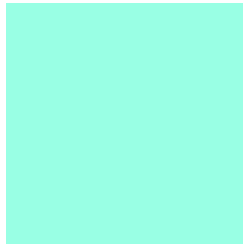


1.1217, 0.5572, 0.2843



# Previews

## White Background



This preview shows how the Yxy color 83.8937, 0.2699, 0.3599 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

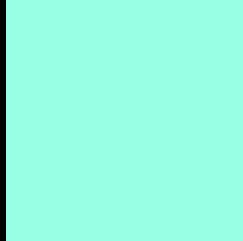
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 83.8937, 0.2699, 0.3599 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

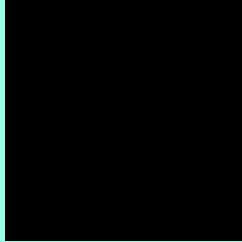
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 83.8937, 0.2699, 0.3599**

## **Background**



This preview shows how black text looks on a background with the Yxy color 83.8937, 0.2699, 0.3599.

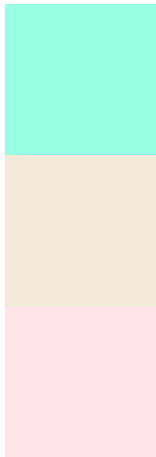


This preview shows how white text looks on a background with the Yxy color 83.8937, 0.2699, 0.3599.

# 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

83.8937, 0.2699, 0.3599

### Protanopia

82.9101, 0.3297, 0.3465

### Deuteranopia

82.6873, 0.3276, 0.3231



## Tritanopia

83.3270, 0.2785, 0.3162

# Trichromacy



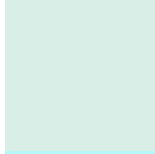
## Original Color

83.8937, 0.2699, 0.3599



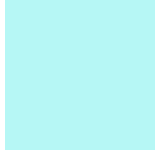
## Protanomaly

82.4264, 0.3046, 0.3517



## Deuteranomaly

81.8807, 0.3033, 0.3353



## Tritanomaly

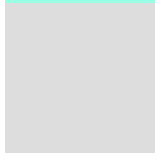
83.0592, 0.2752, 0.3311

# Monochromacy



## Original Color

83.8937, 0.2699, 0.3599



## Achromatopsia

72.3055, 0.3127, 0.3290



## Achromatomaly

75.3954, 0.2939, 0.3390

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 83.8937, 0.2699, 0.3599 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(153, 255, 228)` looks like.

```
.text, #text, p{  
    color:rgb(153, 255, 228)  
}
```

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(153, 255, 228) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(153, 255, 228) }
```

## Border

The CSS property to change the border of an element to Yxy 83.8937, 0.2699, 0.3599 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(153, 255, 228) }
```

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

```
.border{ border-color:rgb(153, 255, 228) }
```

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

Here you see how a box with a 4 pixel `rgb(153, 255, 228)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(153, 255, 228); -webkit-box-  
shadow:4px 4px 4px 4px rgb(153, 255, 228);  
box-shadow:4px 4px 4px 4px rgb(153, 255,  
228) }
```



# Background

The CSS property to change the background color of an element to Yxy 83.8937, 0.2699, 0.3599 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(153, 255, 228) }
```

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

```
.background{ background-color: rgb(153,  
255, 228) }
```

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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