

# Converting Colors

$Y_{xy}(100.0000, 0.2941, 0.3713)$

Have a look what the booklet for  
Yxy(100.0000, 0.2941, 0.3713)  
contains.

<b>Yxy(89.5125, 0.2935, 0.3557)</b> .....	3
<b>Conversions</b> .....	4
<b>Details</b> .....	6
<b>Harmonies</b> .....	12
<b>Previews</b> .....	24
<b>Color Blindness Simulation</b> .....	27
<b>CSS Examples</b> .....	30

# Color

**Yxy(89.5125, 0.2935, 0.3557)**

# Conversions

## Conversions Part 1

Format	Color
Hex	C8FFE6
RGB	200, 255, 230
RGB Percent	78%, 100%, 90%
CMY	0.2158, 0.0000, 0.0979
CMYK	0.22, 0.00, 0.10, 0.00
HSL	153°, 100%, 89%
HSV	153°, 22%, 100%
XYZ	73.8598, 89.5125, 88.2794
YIQ	235.7050, -24.7550, -19.4350

# Conversions

## Conversions Part 2

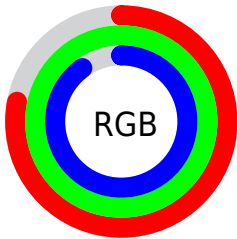
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	200, 236, 255
Decimal	13172710
CIE Lab	95.79, -22.19, 6.26
CIE LCh	96, 23.052, 164.255
Yxy	89.5125, 0.2935, 0.3557
Android (android.graphics.Color)	4291362790 (0xFFC8FFE6)
YUV	235.7050, -2.8126, -31.3133
Hunter-Lab	94.6110, -26.2202, 10.9056

# Details

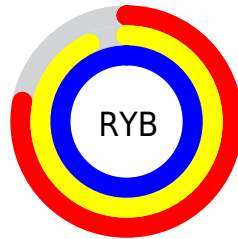
The Yxy color **89.5125, 0.2935, 0.3557** is a light color, and the websafe version is hex **CCFFFF**. A complement of this color would be **67.9841, 0.3372, 0.3038**, and the grayscale version is **83.6742, 0.3127, 0.3290**.

A 20% lighter version of the original color is **100.0000, 0.3127, 0.3290**, and **49.5031, 0.2888, 0.3610** is the 20% darker color. If you saturate the color by 10%, you get **85.6594, 0.2854, 0.3702**, and if you desaturate by 10%, it is **93.9896, 0.3022, 0.3426**.

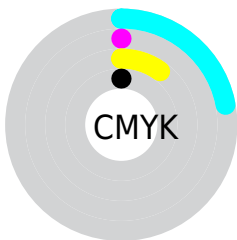
# Distribution



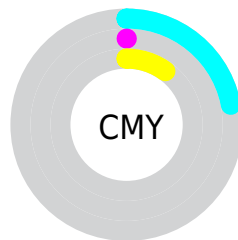
- Red (78%)
- Green (100%)
- Blue (90%)



- Red (78%)
- Yellow (93%)
- Blue (100%)



- Cyan (22%)
- Magenta (0%)
- Yellow (10%)
- Black (0%)




- Cyan (22%)
- Magenta (0%)
- Yellow (10%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 89.5125, 0.2935, 0.3557 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 89.5125, 0.2935, 0.3557 by changing the saturation by 10% instead.




 89.5125, 0.2935,  
0.3557

 89.5125, 0.2935,  
0.3557


526.4438, 0.3022,  
0.3436

 67.5764, 0.2916,  
0.3584


146.6610, 0.2965,  
0.3515

 49.5532, 0.2892,  
0.3618


182.6423, 0.2976,  
0.3499

 35.0585, 0.2862,  
0.3660


224.0740, 0.2987,  
0.3485

 23.7079, 0.2824,  
0.3714


271.3406, 0.2995,  
0.3472

 15.1171, 0.2773,  
0.3787

324.8265, 0.3003,  
0.3462

 8.9016, 0.2702,  
0.3891

384.9160, 0.3010,

 4.6771, 0.2594,

0.3452

0.4049

451.9937, 0.3016,  
0.3443

■ 2.0591, 0.2415,  
0.4317

■ 0.6415, 0.0701,  
0.6609

■ 89.5125, 0.2935,  
0.3557

■ 89.5125, 0.2935,  
0.3557

■ 85.6594, 0.2854,  
0.3702

■ 93.9896, 0.3022,  
0.3426


■ 82.4073, 0.2781,  
0.3859


■ 99.1254, 0.3113,  
0.3307


■ 79.7216, 0.2722,  
0.4026


100.0000, 0.3127,  
0.3290

■ 77.5668, 0.2677,  
0.4202

 75.9031, 0.2652,  
0.4382

 74.6850, 0.2647,  
0.4562

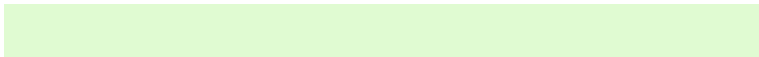
 73.8579, 0.2662,  
0.4737

 73.3950, 0.2688,  
0.4878

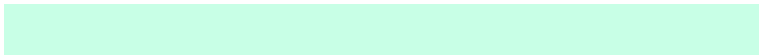
# Harmonies

## Analogous

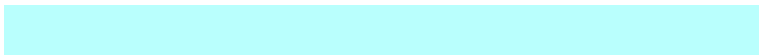
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



89.5125, 0.3190, 0.3716



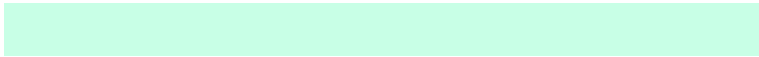
89.5125, 0.2935, 0.3557



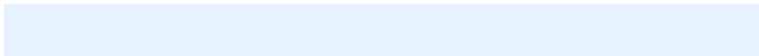
89.5125, 0.2737, 0.3320

# Triad

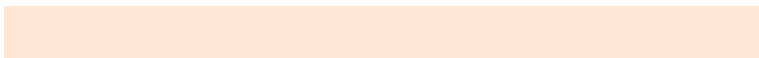
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



89.5125, 0.2935, 0.3557



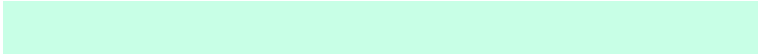
89.5125, 0.2815, 0.2859



89.5125, 0.3639, 0.3460

# Complementary

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



89.5125, 0.2935, 0.3557



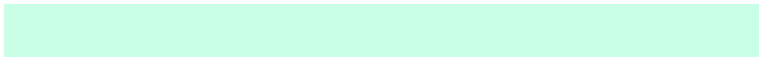
67.9841, 0.3372, 0.3038

# 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.



89.5125, 0.3530, 0.3242



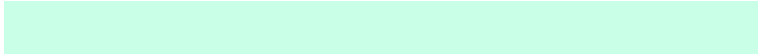
89.5125, 0.2935, 0.3557



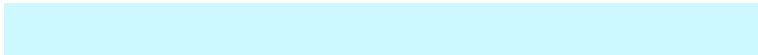
89.5125, 0.3047, 0.2905

# Square

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



89.5125, 0.2935, 0.3557



89.5125, 0.2669, 0.2921



89.5125, 0.3310, 0.3043

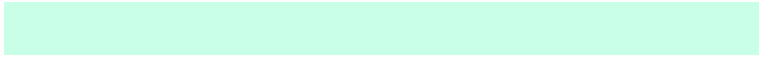


89.5125, 0.3603, 0.3646



# Rectangle

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



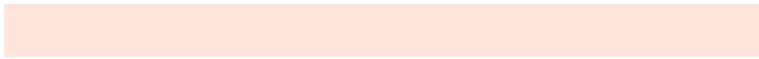
89.5125, 0.2935, 0.3557



89.5125, 0.2660, 0.3159



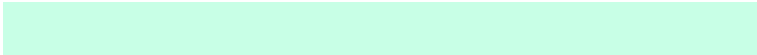
89.5125, 0.3310, 0.3043



89.5125, 0.3618, 0.3389

# Sweetspot

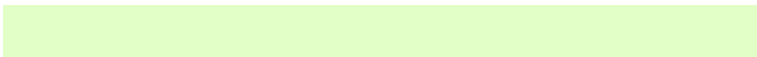
The Sweet Spot groups the original color and five complimentary colors.



89.5102, 0.2935, 0.3557



96.7740, 0.3072, 0.3358



91.8004, 0.3260, 0.3865



20.6416, 0.3067, 0.3366



0.0000, 0.0000, 0.0000

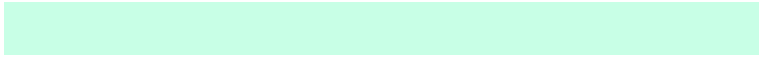


21.4041, 0.3127, 0.3290

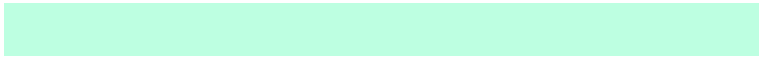


# Same Dimension

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



89.5102, 0.2935, 0.3557



87.7333, 0.2898, 0.3619



89.8496, 0.2804, 0.3270



20.3343, 0.3041, 0.3400



38.3810, 0.2681, 0.4851



3.7591, 0.2627, 0.4657



# Inverse Universe

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



67.9841, 0.3372, 0.3038



62.6282, 0.3436, 0.2984



67.5754, 0.3563, 0.3310



18.1240, 0.3223, 0.3183



11.7924, 0.5162, 0.2617

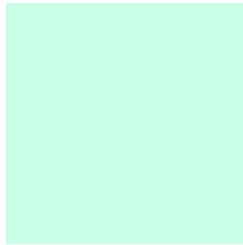


1.1699, 0.4883, 0.2464



# Previews

## White Background



This preview shows how the Yxy color 89.5125, 0.2935, 0.3557 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

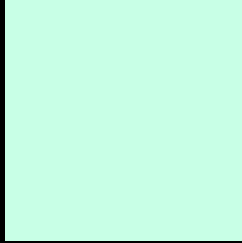
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 89.5125, 0.2935, 0.3557 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

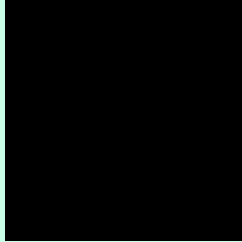
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

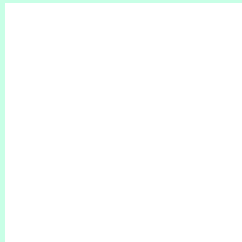
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 89.5125, 0.2935, 0.3557**

## **Background**



This preview shows how black text looks on a background with the Yxy color 89.5125, 0.2935, 0.3557.

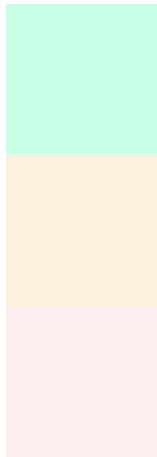


This preview shows how white text looks on a background with the Yxy color 89.5125, 0.2935, 0.3557.

# 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

89.5125, 0.2935, 0.3557

### Protanopia

88.7475, 0.3306, 0.3470

### Deuteranopia

88.6411, 0.3234, 0.3281



## Tritanopia

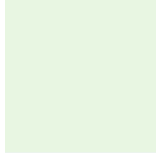
89.4624, 0.2957, 0.3199

# Trichromacy



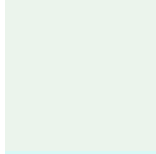
## Original Color

89.5125, 0.2935, 0.3557



## Protanomaly

88.5583, 0.3156, 0.3495



## Deuteranomaly

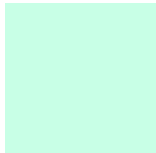
88.4197, 0.3117, 0.3371



## Tritanomaly

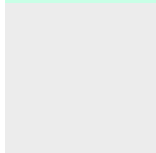
89.1569, 0.2947, 0.3320

# Monochromacy



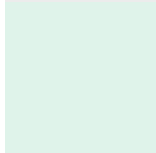
## Original Color

89.5125, 0.2935, 0.3557



## Achromatopsia

83.8799, 0.3127, 0.3290



## Achromatomaly

85.7297, 0.3052, 0.3383

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 89.5125, 0.2935, 0.3557 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(200, 255, 230)` looks like.

```
.text, #text, p{  
    color:rgb(200, 255, 230)  
}
```

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(200, 255, 230) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(200, 255, 230) }
```

## Border

The CSS property to change the border of an element to Yxy 89.5125, 0.2935, 0.3557 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(200, 255, 230) }
```

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

```
.border{ border-color:rgb(200, 255, 230) }
```

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

Here you see how a box with a 4 pixel `rgb(200, 255, 230)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(200, 255, 230); -webkit-box-  
shadow:4px 4px 4px 4px rgb(200, 255, 230);  
box-shadow:4px 4px 4px 4px rgb(200, 255,  
230) }
```



# Background

The CSS property to change the background color of an element to Yxy 89.5125, 0.2935, 0.3557 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(200, 255, 230) }
```

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

```
.background{ background-color: rgb(200,  
255, 230) }
```

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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