

# Converting Colors

$Yxy(83.8503, 0.3126, 0.4275)$

Have a look what the booklet for  
Yxy(83.8503, 0.3126, 0.4275)  
contains.

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# Color

**Yxy(83.8873, 0.3127, 0.4275)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B2FFAA
RGB	178, 255, 170
RGB Percent	70%, 100%, 67%
CMY	0.3023, 0.0000, 0.3334
CMYK	0.30, 0.00, 0.33, 0.00
HSL	114°, 100%, 83%
HSV	114°, 33%, 100%
XYZ	61.3604, 83.8873, 50.9799
YIQ	222.2870, -18.6070, -42.7590

# Conversions

## Conversions Part 2

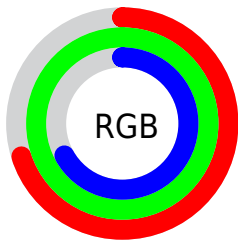
<b>Format</b>	<b>Color</b>
<b>RYB</b>	170, 255, 247
Decimal	11730858
CIELab	93.40, -39.42, 33.32
CIELCh	93, 51.619, 139.794
Yxy	83.8873, 0.3127, 0.4275
Android (android.graphics.Color)	4289920938 (0xFFB2FFAA)
YUV	222.2870, -25.7775, -38.8397
Hunter-Lab	91.5900, -40.6971, 31.1116

# Details

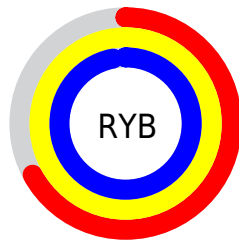
The Yxy color **83.8873, 0.3127, 0.4275** is a light color, and the websafe version is hex **99FF99**. A complement of this color would be **55.7509, 0.3103, 0.2443**, and the grayscale version is **73.4357, 0.3127, 0.3290**.

A 20% lighter version of the original color is **94.6732, 0.3169, 0.3583**, and **45.8835, 0.3111, 0.4521** is the 20% darker color. If you saturate the color by 10%, you get **80.4970, 0.3120, 0.4625**, and if you desaturate by 10%, it is **87.9050, 0.3130, 0.3944**.

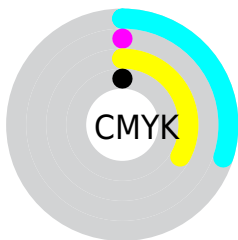
# Distribution



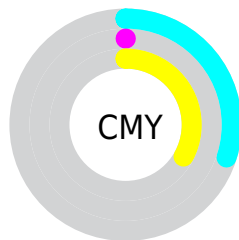
- Red (70%)
- Green (100%)
- Blue (67%)



- Red (67%)
- Yellow (100%)
- Blue (97%)



- Cyan (30%)
- Magenta (0%)
- Yellow (33%)
- Black (0%)




- Cyan (30%)
- Magenta (0%)
- Yellow (33%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 83.8873, 0.3127, 0.4275 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 83.8873, 0.3127, 0.4275 by changing the saturation by 10% instead.



 83.8873, 0.3127,  
0.4275

 83.8873, 0.3127,  
0.4275


507.9389, 0.3142,  
0.3806

 62.9224, 0.3120,  
0.4385


 138.8175, 0.3135,  
0.4110

 45.7784, 0.3109,  
0.4521


173.5516, 0.3138,  
0.4047

 32.0710, 0.3091,  
0.4695


213.6442, 0.3139,  
0.3992

 21.4157, 0.3063,  
0.4924

259.4798, 0.3140,  
0.3945

 13.4282, 0.3014,  
0.5236

311.4426, 0.3141,  
0.3904

 7.7241, 0.2922,  
0.5682


369.9171, 0.3142,


 3.9189, 0.2766,

0.3867

0.6428

435.2878, 0.3142,  
0.3835


 1.6283, 0.2157,  
0.7843


 0.3766, 0.0000,  
1.0000


 83.8873, 0.3127,  
0.4275

 83.8873, 0.3127,  
0.4275


 80.4970, 0.3120,  
0.4625


 87.9050, 0.3130,  
0.3944

 77.7310, 0.3109,  
0.4977

 92.6125, 0.3130,  
0.3642

 75.5420, 0.3093,  
0.5309

 98.0289, 0.3128,  
0.3373

 73.8888, 0.3073,  
0.5595

100.0000, 0.3127,  
0.3290

■ 72.7249, 0.3051,  
0.5810

■ 71.9955, 0.3029,  
0.5941

■ 71.7116, 0.3016,  
0.5987

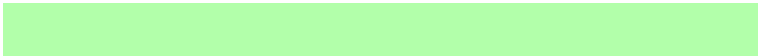
# Harmonies

## Analogous

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



83.8873, 0.3699, 0.4359



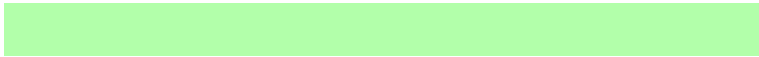
83.8873, 0.3127, 0.4275



83.8873, 0.2584, 0.3827

# Triad

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



83.8873, 0.3127, 0.4275



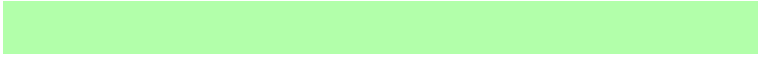
83.8873, 0.2174, 0.2425



83.8873, 0.4129, 0.3238

# Complementary

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



83.8873, 0.3127, 0.4275



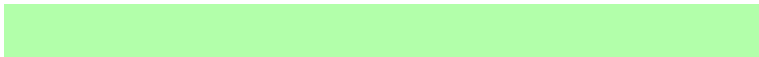
55.7509, 0.3103, 0.2443

# 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.



83.8873, 0.3642, 0.2819



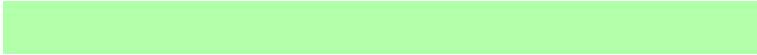
83.8873, 0.3127, 0.4275



83.8873, 0.2509, 0.2367

# Square

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



83.8873, 0.3127, 0.4275



83.8873, 0.2069, 0.2712



83.8873, 0.3036, 0.2511

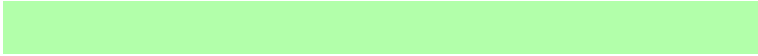


83.8873, 0.4312, 0.3696



# Rectangle

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



83.8873, 0.3127, 0.4275



83.8873, 0.2309, 0.3421



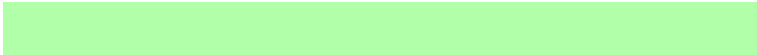
83.8873, 0.3036, 0.2511



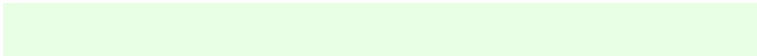
83.8873, 0.3994, 0.3090

# Sweetspot

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



83.8770, 0.3127, 0.4275



94.3407, 0.3130, 0.3548



90.3770, 0.3657, 0.4050



20.0350, 0.3130, 0.3587



0.0000, 0.0000, 0.0000

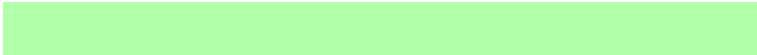


21.4041, 0.3127, 0.3290

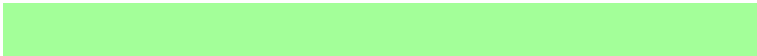


# Same Dimension

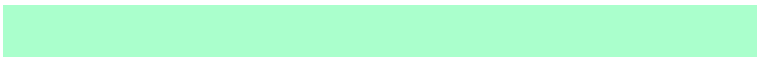
The Same Dimension uses a secret algorithm to generate beautiful new colors.



83.8770, 0.3127, 0.4275



81.5555, 0.3123, 0.4507



84.4237, 0.2904, 0.3877



20.2491, 0.3130, 0.3535



37.4978, 0.3021, 0.5983



3.6770, 0.3064, 0.5949



# Inverse Universe

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



55.7509, 0.3103, 0.2443



49.5021, 0.3094, 0.2277



55.2244, 0.3445, 0.2771



18.2092, 0.3123, 0.3055



12.7034, 0.2975, 0.1413

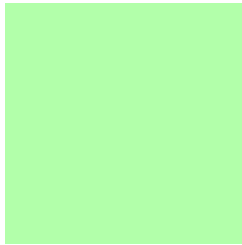


1.2610, 0.3003, 0.1428



# Previews

## White Background



This preview shows how the Yxy color 83.8873, 0.3127, 0.4275 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

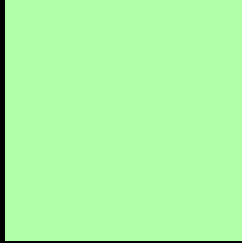
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 83.8873, 0.3127, 0.4275 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

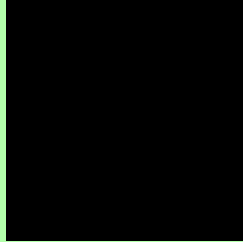
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 83.8873, 0.3127, 0.4275**

## **Background**



This preview shows how black text looks on a background with the Yxy color 83.8873, 0.3127, 0.4275.

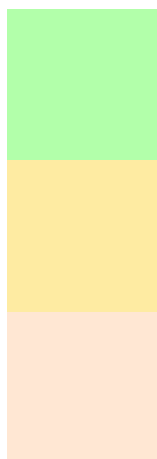


This preview shows how white text looks on a background with the Yxy color 83.8873, 0.3127, 0.4275.

# 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

83.8873, 0.3127, 0.4275

### Protanopia

83.0961, 0.3736, 0.4027

### Deuteranopia

83.1150, 0.3427, 0.3491



## Tritanopia

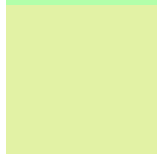
83.5405, 0.2841, 0.3143

# Trichromacy



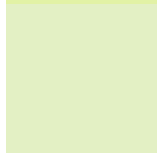
## Original Color

83.8873, 0.3127, 0.4275



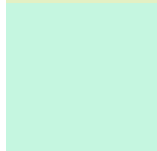
## Protanomaly

82.3896, 0.3493, 0.4117



## Deuteranomaly

82.6366, 0.3313, 0.3760



## Tritanomaly

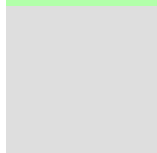
83.1637, 0.2948, 0.3531

# Monochromacy



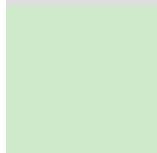
## Original Color

83.8873, 0.3127, 0.4275



## Achromatopsia

73.0461, 0.3127, 0.3290



## Achromatomaly

76.2792, 0.3131, 0.3638

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 83.8873, 0.3127, 0.4275 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(178, 255, 170)` looks like.

```
.text, #text, p{  
    color:rgb(178, 255, 170)  
}
```

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(178, 255, 170) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(178, 255, 170) }
```

## Border

The CSS property to change the border of an element to Yxy 83.8873, 0.3127, 0.4275 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(178, 255, 170) }
```

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

```
.border{ border-color:rgb(178, 255, 170) }
```

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

Here you see how a box with a 4 pixel `rgb(178, 255, 170)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(178, 255, 170); -webkit-box-  
shadow:4px 4px 4px 4px rgb(178, 255, 170);  
box-shadow:4px 4px 4px 4px rgb(178, 255,  
170) }
```



# Background

The CSS property to change the background color of an element to Yxy 83.8873, 0.3127, 0.4275 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(178, 255, 170) }
```

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

```
.background{ background-color: rgb(178,  
255, 170) }
```

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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