

# Converting Colors

$Yxy(83.7835, 0.3106, 0.4251)$

Have a look what the booklet for  
Yxy(83.7835, 0.3106, 0.4251)  
contains.

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# Color

**Yxy(83.7287, 0.3105, 0.4254)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B0FFAC
RGB	176, 255, 172
RGB Percent	69%, 100%, 67%
CMY	0.3098, 0.0000, 0.3254
CMYK	0.31, 0.00, 0.33, 0.00
HSL	117°, 100%, 84%
HSV	117°, 33%, 100%
XYZ	61.1137, 83.7287, 51.9811
YIQ	221.9170, -20.4410, -42.5610

# Conversions

## Conversions Part 2

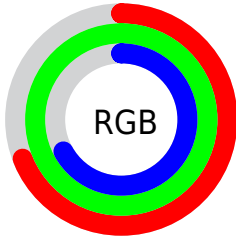
Format	Color
<a href="#">RYB</a>	<a href="#">172, 255, 251</a>
Decimal	<a href="#">11599788</a>
CIELab	<a href="#">93.33, -39.71, 32.19</a>
CIElCh	<a href="#">93, 51.116, 140.965</a>
Yxy	<a href="#">83.7287, 0.3105, 0.4254</a>
Android (android.graphics.Color)	<a href="#">4289789868 (0xFFB0FFAC)</a>
YUV	<a href="#">221.9170, -24.6091, -40.2692</a>
Hunter-Lab	<a href="#">91.5034, -40.9136, 30.3710</a>

# Details

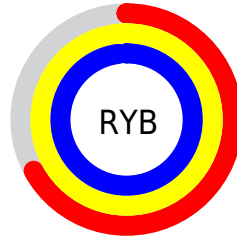
The Yxy color **83.7287, 0.3105, 0.4254** is a light color, and the websafe version is hex **99FF99**. A complement of this color would be **57.2468, 0.3134, 0.2471**, and the grayscale version is **73.1761, 0.3127, 0.3290**.

A 20% lighter version of the original color is **94.4451, 0.3145, 0.3563**, and **45.7850, 0.3084, 0.4496** is the 20% darker color. If you saturate the color by 10%, you get **80.2612, 0.3093, 0.4607**, and if you desaturate by 10%, it is **87.8937, 0.3114, 0.3922**.

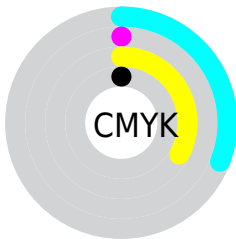
# Distribution



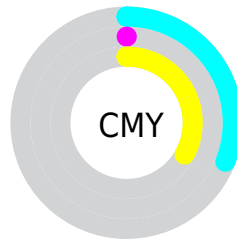
- Red (69%)
- Green (100%)
- Blue (67%)



- Red (67%)
- Yellow (100%)
- Blue (98%)



- Cyan (31%)
- Magenta (0%)
- Yellow (33%)
- Black (0%)



- Cyan (31%)
- Magenta (0%)
- Yellow (33%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 83.7287, 0.3105, 0.4254 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 83.7287, 0.3105, 0.4254 by changing the saturation by 10% instead.





 83.7287, 0.3105,  
0.4254

 83.7287, 0.3105,  
0.4254

507.4119, 0.3129,  
0.3795

 62.7915, 0.3096,  
0.4361


 138.5956, 0.3116,  
0.4092

 45.6725, 0.3082,  
0.4495


173.2941, 0.3120,  
0.4030

 31.9875, 0.3063,  
0.4666


213.3484, 0.3123,  
0.3977

 21.3519, 0.3031,  
0.4891

259.1430, 0.3125,  
0.3931

 13.3815, 0.2979,  
0.5199

311.0622, 0.3126,  
0.3890

 7.6918, 0.2884,  
0.5641


369.4905, 0.3128,


 3.8984, 0.2717,

0.3855

0.6365

434.8123, 0.3129,  
0.3823


 1.6169, 0.2115,  
0.7885


 0.3689, 0.0000,  
1.0000


 83.7287, 0.3105,  
0.4254


 83.7287, 0.3105,  
0.4254


 80.2612, 0.3093,  
0.4607


 87.8937, 0.3114,  
0.3922

 77.4482, 0.3079,  
0.4965

 92.7859, 0.3121,  
0.3620

 75.2500, 0.3063,  
0.5303

 98.4394, 0.3126,  
0.3353

 73.6206, 0.3046,  
0.5594

100.0000, 0.3127,  
0.3290

■ 72.5076, 0.3029,  
0.5813

■ 71.8484, 0.3014,  
0.5946

■ 71.5999, 0.3007,  
0.5995

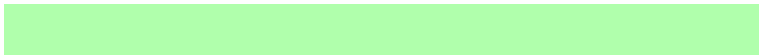
# Harmonies

## Analogous

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



83.7287, 0.3674, 0.4353



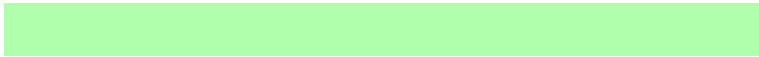
83.7287, 0.3105, 0.4254



83.7287, 0.2570, 0.3799

# Triad

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



83.7287, 0.3105, 0.4254



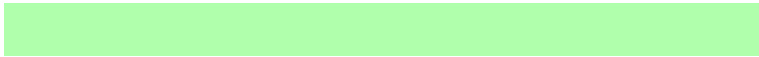
83.7287, 0.2190, 0.2426



83.7287, 0.4134, 0.3256

# Complementary

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



83.7287, 0.3105, 0.4254



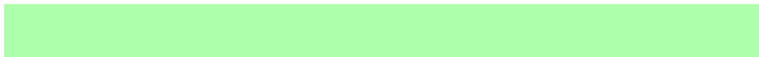
57.2468, 0.3134, 0.2471

# 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.



83.7287, 0.3660, 0.2838



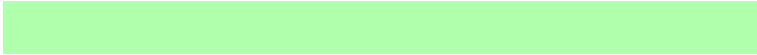
83.7287, 0.3105, 0.4254



83.7287, 0.2532, 0.2376

# Square

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



83.7287, 0.3105, 0.4254



83.7287, 0.2077, 0.2702



83.7287, 0.3060, 0.2526

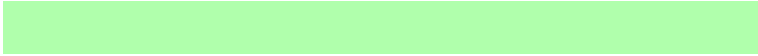


83.7287, 0.4301, 0.3711



# Rectangle

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



83.7287, 0.3105, 0.4254



83.7287, 0.2303, 0.3397



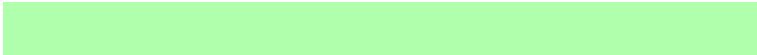
83.7287, 0.3060, 0.2526



83.7287, 0.4003, 0.3109

# Sweetspot

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



83.7305, 0.3105, 0.4254



94.1482, 0.3123, 0.3549



93.1410, 0.3632, 0.4069



19.9889, 0.3122, 0.3588



0.0000, 0.0000, 0.0000

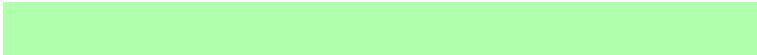


21.4041, 0.3127, 0.3290

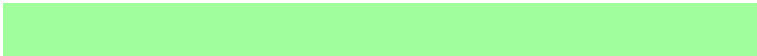


# Same Dimension

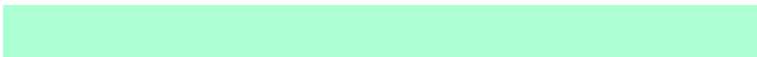
The Same Dimension uses a secret algorithm to generate beautiful new colors.



83.7305, 0.3105, 0.4254



81.4121, 0.3098, 0.4481



84.9149, 0.2887, 0.3811



20.2097, 0.3123, 0.3535



37.4300, 0.3010, 0.5992



3.6584, 0.3033, 0.5974



# Inverse Universe

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



57.2468, 0.3134, 0.2471



51.2120, 0.3133, 0.2313



55.8187, 0.3471, 0.2824



18.2533, 0.3130, 0.3055



13.7262, 0.3089, 0.1475

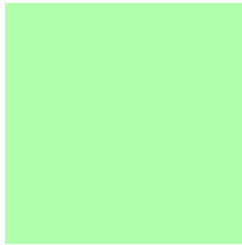


1.3496, 0.3104, 0.1483



# Previews

## White Background



This preview shows how the Yxy color 83.7287, 0.3105, 0.4254 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

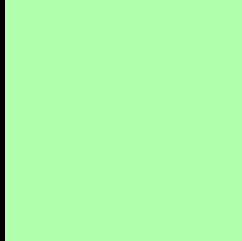
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 83.7287, 0.3105, 0.4254 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

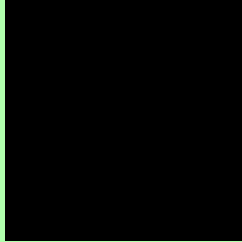
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

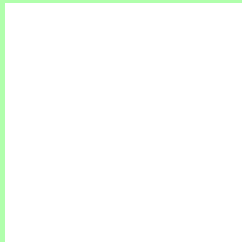
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 83.7287, 0.3105, 0.4254**

## **Background**



This preview shows how black text looks on a background with the Yxy color 83.7287, 0.3105, 0.4254.

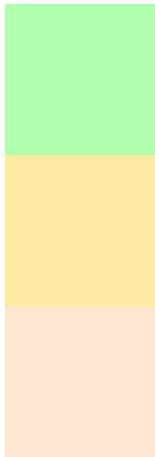


This preview shows how white text looks on a background with the Yxy color 83.7287, 0.3105, 0.4254.

# 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

83.7287, 0.3105, 0.4254

### Protanopia

83.1318, 0.3730, 0.4017

### Deuteranopia

82.5568, 0.3428, 0.3482



## Tritanopia

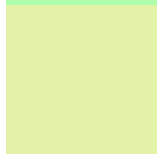
83.2524, 0.2829, 0.3142

# Trichromacy



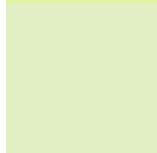
## Original Color

83.7287, 0.3105, 0.4254



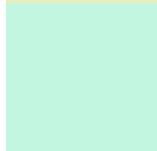
## Protanomaly

82.4262, 0.3487, 0.4106



## Deuteranomaly

81.9330, 0.3301, 0.3740



## Tritanomaly

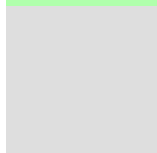
82.9499, 0.2931, 0.3521

# Monochromacy



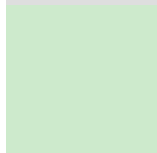
## Original Color

83.7287, 0.3105, 0.4254



## Achromatopsia

73.0461, 0.3127, 0.3290



## Achromatomaly

76.1844, 0.3118, 0.3627

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 83.7287, 0.3105, 0.4254 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(176, 255, 172)` looks like.

```
.text, #text, p{  
    color:rgb(176, 255, 172)  
}
```

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(176, 255, 172) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(176, 255, 172) }
```

## Border

The CSS property to change the border of an element to Yxy 83.7287, 0.3105, 0.4254 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(176, 255, 172) }
```

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

```
.border{ border-color:rgb(176, 255, 172) }
```

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

Here you see how a box with a 4 pixel `rgb(176, 255, 172)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(176, 255, 172); -webkit-box-  
shadow:4px 4px 4px 4px rgb(176, 255, 172);  
box-shadow:4px 4px 4px 4px rgb(176, 255,  
172) }
```



# Background

The CSS property to change the background color of an element to Yxy 83.7287, 0.3105, 0.4254 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(176, 255, 172) }
```

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

```
.background{ background-color: rgb(176,  
255, 172) }
```

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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