

# Converting Colors

$Y_{xy}(109.4320, 0.3108, 0.4614)$

Have a look what the booklet for  
Yxy(109.4320, 0.3108, 0.4614)  
contains.

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# Color

**Yxy(83.6571, 0.3137, 0.4312)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B1FFA7
RGB	177, 255, 167
RGB Percent	69%, 100%, 65%
CMY	0.3060, 0.0000, 0.3451
CMYK	0.31, 0.00, 0.35, 0.00
HSL	113°, 100%, 83%
HSV	113°, 35%, 100%
XYZ	60.8609, 83.6571, 49.4919
YIQ	221.6460, -18.2400, -43.9040

# Conversions

## Conversions Part 2

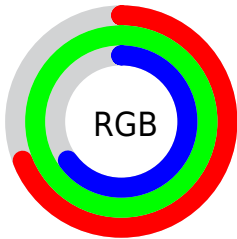
Format	Color
<a href="#">RYB</a>	<a href="#">167, 255, 245</a>
Decimal	<a href="#">11665319</a>
CIELab	<a href="#">93.30, -40.17, 34.67</a>
CIELCh	<a href="#">93, 53.063, 139.197</a>
Yxy	<a href="#">83.6571, 0.3137, 0.4312</a>
Android (android.graphics.Color)	<a href="#">4289855399 (0xFFB1FFA7)</a>
YUV	<a href="#">221.6460, -26.9405, -39.1545</a>
Hunter-Lab	<a href="#">91.4643, -41.2874, 31.9427</a>

# Details

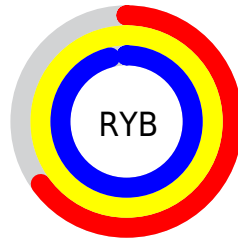
The Yxy color **83.6571, 0.3137, 0.4312** is a light color, and the websafe version is hex **99FF99**. A complement of this color would be **54.2681, 0.3087, 0.2410**, and the grayscale version is **72.9800, 0.3127, 0.3290**.

A 20% lighter version of the original color is **94.5099, 0.3187, 0.3614**, and **45.7406, 0.3123, 0.4570** is the 20% darker color. If you saturate the color by 10%, you get **80.3638, 0.3132, 0.4661**, and if you desaturate by 10%, it is **87.5692, 0.3138, 0.3980**.

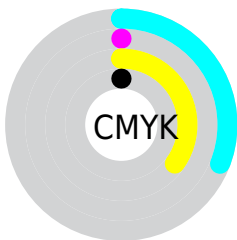
# Distribution



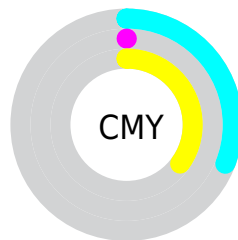
- Red (69%)
- Green (100%)
- Blue (65%)



- Red (65%)
- Yellow (100%)
- Blue (96%)



- Cyan (31%)
- Magenta (0%)
- Yellow (35%)
- Black (0%)



- Cyan (31%)
- Magenta (0%)
- Yellow (35%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 83.6571, 0.3137, 0.4312 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 83.6571, 0.3137, 0.4312 by changing the saturation by 10% instead.



 83.6571, 0.3137,  
0.4312


 83.6571, 0.3137,  
0.4312


507.1739, 0.3149,  
0.3825

 62.7324, 0.3130,  
0.4426


 138.4954, 0.3144,  
0.4141

 45.6247, 0.3119,  
0.4568


 173.1778, 0.3146,  
0.4075

 31.9498, 0.3102,  
0.4748

213.2148, 0.3148,  
0.4018

 21.3232, 0.3073,  
0.4986

258.9909, 0.3148,  
0.3969

 13.3604, 0.3022,  
0.5310

310.8905, 0.3149,  
0.3926

 7.6772, 0.2925,  
0.5771


369.2979, 0.3149,


 3.8891, 0.2775,

0.3888


0.6575


434.5976, 0.3149,  
0.3855


 1.6117, 0.2064,  
0.7936


 0.3655, 0.0000,  
1.0000

 83.6571, 0.3137,  
0.4312


 83.6571, 0.3137,  
0.4312


 80.3638, 0.3132,  
0.4661


 87.5692, 0.3138,  
0.3980

 77.6670, 0.3122,  
0.5010

 92.1406, 0.3135,  
0.3675

 75.5275, 0.3106,  
0.5337

 97.3961, 0.3130,  
0.3402

 73.9060, 0.3085,  
0.5615

100.0000, 0.3127,  
0.3290

■ 72.7578, 0.3060,  
0.5821

■ 72.0300, 0.3034,  
0.5944

■ 71.7802, 0.3022,  
0.5982

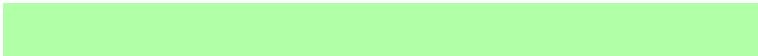
# Harmonies

## Analogous

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



83.6571, 0.3723, 0.4387



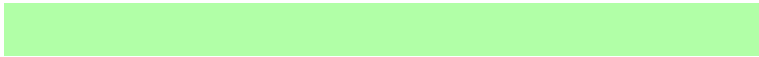
83.6571, 0.3137, 0.4312



83.6571, 0.2578, 0.3855

# Triad

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



83.6571, 0.3137, 0.4312



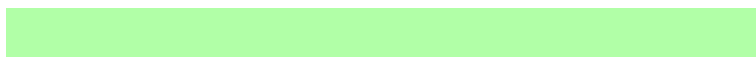
83.6571, 0.2145, 0.2406



83.6571, 0.4151, 0.3225

# Complementary

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



83.6571, 0.3137, 0.4312



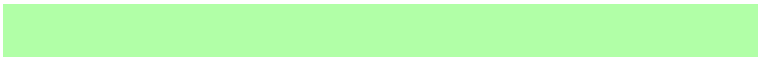
54.2681, 0.3087, 0.2410

# Split Complementary

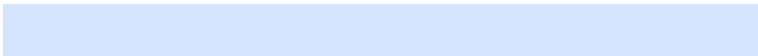
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



83.6571, 0.3645, 0.2799



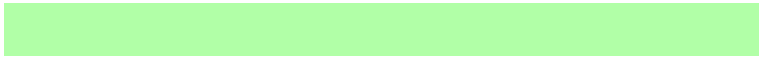
83.6571, 0.3137, 0.4312



83.6571, 0.2483, 0.2343

# Square

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



83.6571, 0.3137, 0.4312



83.6571, 0.2043, 0.2703



83.6571, 0.3021, 0.2486

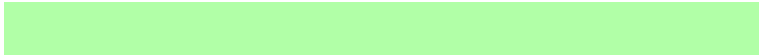


83.6571, 0.4345, 0.3695



# Rectangle

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



83.6571, 0.3137, 0.4312



83.6571, 0.2293, 0.3437



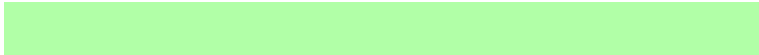
83.6571, 0.3021, 0.2486



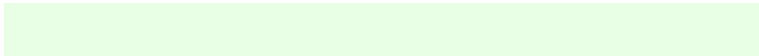
83.6571, 0.4010, 0.3075

# Sweetspot

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



83.6537, 0.3137, 0.4312



94.4268, 0.3133, 0.3548



89.1923, 0.3681, 0.4064



20.0557, 0.3134, 0.3587



0.0000, 0.0000, 0.0000

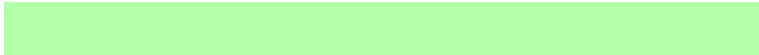


21.4041, 0.3127, 0.3290

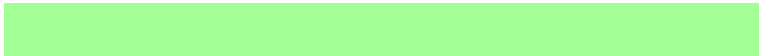


# Same Dimension

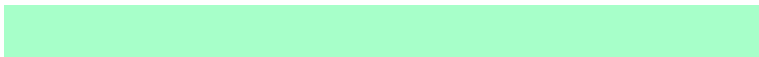
The Same Dimension uses a secret algorithm to generate beautiful new colors.



83.6537, 0.3137, 0.4312



81.4507, 0.3134, 0.4537



83.9384, 0.2905, 0.3920



20.2668, 0.3133, 0.3535



37.5379, 0.3027, 0.5978



3.6853, 0.3078, 0.5938



# Inverse Universe

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



54.2681, 0.3087, 0.2410



48.2557, 0.3075, 0.2247



54.1275, 0.3446, 0.2738



18.1896, 0.3120, 0.3055



12.2686, 0.2924, 0.1384

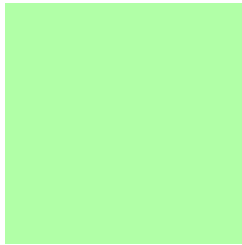


1.2230, 0.2958, 0.1403



# Previews

## White Background



This preview shows how the Yxy color 83.6571, 0.3137, 0.4312 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

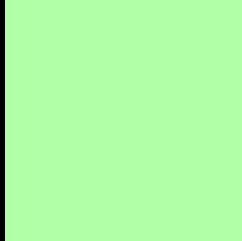
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 83.6571, 0.3137, 0.4312 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

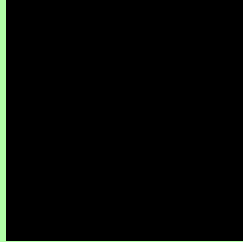
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

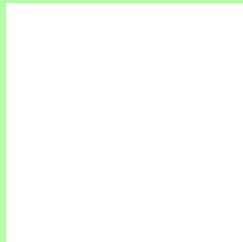
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 83.6571, 0.3137, 0.4312**

## **Background**



This preview shows how black text looks on a background with the Yxy color 83.6571, 0.3137, 0.4312.

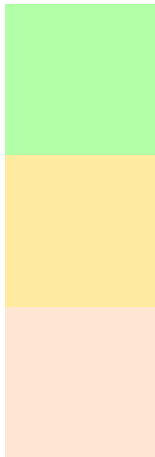


This preview shows how white text looks on a background with the Yxy color 83.6571, 0.3137, 0.4312.

# 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

83.6571, 0.3137, 0.4312

### Protanopia

82.9907, 0.3756, 0.4056

### Deuteranopia

82.5068, 0.3435, 0.3492



## Tritanopia

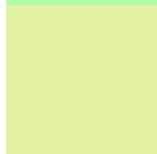
83.3960, 0.2835, 0.3143

# Trichromacy



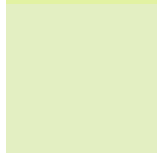
## Original Color

83.6571, 0.3137, 0.4312



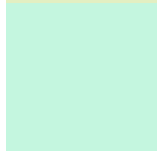
## Protanomaly

82.2816, 0.3511, 0.4149



## Deuteranomaly

81.9589, 0.3327, 0.3772



## Tritanomaly

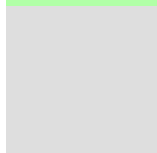
82.9750, 0.2948, 0.3543

# Monochromacy



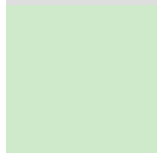
## Original Color

83.6571, 0.3137, 0.4312



## Achromatopsia

73.0461, 0.3127, 0.3290



## Achromatomaly

76.2317, 0.3137, 0.3649

# CSS Examples

## Text

The CSS property to change the color of the text to  $Yxy$  83.6571, 0.3137, 0.4312 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(177, 255, 167)` looks like.

```
.text, #text, p{  
    color:rgb(177, 255, 167)  
}
```

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(177, 255, 167) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(177, 255, 167) }
```

## Border

The CSS property to change the border of an element to Yxy 83.6571, 0.3137, 0.4312 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(177, 255, 167) }
```

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

```
.border{ border-color:rgb(177, 255, 167) }
```

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

Here you see how a box with a 4 pixel rgb(177, 255, 167) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(177, 255, 167); -webkit-box-  
shadow:4px 4px 4px 4px rgb(177, 255, 167);  
box-shadow:4px 4px 4px 4px rgb(177, 255,  
167) }
```



# Background

The CSS property to change the background color of an element to Yxy 83.6571, 0.3137, 0.4312 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(177, 255, 167) }
```

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

```
.background{ background-color: rgb(177,  
255, 167) }
```

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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