

# Converting Colors

$Y_{xy}(136.3073, 0.2971, 0.4613)$

Have a look what the booklet for  
Yxy(136.3073, 0.2971, 0.4613)  
contains.

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# Color

**Yxy(83.6506, 0.2955, 0.4025)**

# Conversions

## Conversions Part 1

Format	Color
Hex	A8FFC0
RGB	168, 255, 192
RGB Percent	66%, 100%, 75%
CMY	0.3414, 0.0000, 0.2471
CMYK	0.34, 0.00, 0.25, 0.00
HSL	137°, 100%, 83%
HSV	137°, 34%, 100%
XYZ	61.4130, 83.6506, 62.7639
YIQ	221.8050, -31.6290, -38.0370

# Conversions

## Conversions Part 2

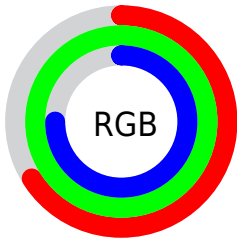
Format	Color
<a href="#">RYB</a>	<a href="#">168, 236, 255</a>
Decimal	<a href="#">11075520</a>
CIELab	<a href="#">93.30, -38.86, 22.00</a>
CIELCh	<a href="#">93, 44.650, 150.484</a>
Yxy	<a href="#">83.6506, 0.2955, 0.4025</a>
Android (android.graphics.Color)	<a href="#">4289265600 (0xFFA8FFC0)</a>
YUV	<a href="#">221.8050, -14.6939, -47.1870</a>
Hunter-Lab	<a href="#">91.4607, -40.1990, 23.3354</a>

# Details

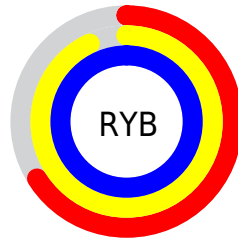
The Yxy color **83.6506, 0.2955, 0.4025** is a light color, and the websafe version is hex **99FFCC**. A complement of this color would be **55.0164, 0.3362, 0.2655**, and the grayscale version is **73.0116, 0.3127, 0.3290**.

A 20% lighter version of the original color is **94.3671, 0.2979, 0.3350**, and **45.7339, 0.2911, 0.4214** is the 20% darker color. If you saturate the color by 10%, you get **80.3481, 0.2913, 0.4288**, and if you desaturate by 10%, it is **87.5923, 0.3003, 0.3781**.

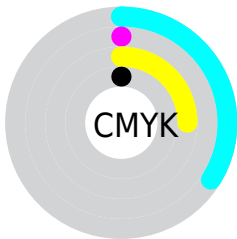
# Distribution



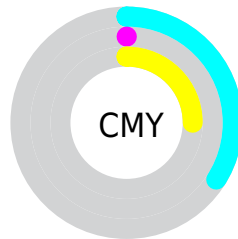
- Red (66%)
- Green (100%)
- Blue (75%)



- Red (66%)
- Yellow (93%)
- Blue (100%)



- Cyan (34%)
- Magenta (0%)
- Yellow (25%)
- Black (0%)




- Cyan (34%)
- Magenta (0%)
- Yellow (25%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 83.6506, 0.2955, 0.4025 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 83.6506, 0.2955, 0.4025 by changing the saturation by 10% instead.





 83.6506, 0.2955,  
0.4025

 83.6506, 0.2955,  
0.4025

507.1522, 0.3041,  
0.3676

 62.7270, 0.2934,  
0.4107


 138.4863, 0.2986,  
0.3902

 45.6204, 0.2907,  
0.4208


173.1672, 0.2998,  
0.3855

 31.9464, 0.2871,  
0.4338


213.2027, 0.3008,  
0.3815

 21.3205, 0.2822,  
0.4510

258.9771, 0.3017,  
0.3780

 13.3585, 0.2752,  
0.4748

310.8749, 0.3024,  
0.3749

 7.6759, 0.2643,  
0.5097

369.2804, 0.3030,

 3.8883, 0.2457,

0.3722

0.5649

434.5781, 0.3036,  
0.3698

■ 1.6113, 0.2119,  
0.7575

■ 0.3652, 0.0000,  
1.0000

■ 83.6506, 0.2955,  
0.4025

■ 83.6506, 0.2955,  
0.4025

■ 80.3481, 0.2913,  
0.4288

■ 87.5923, 0.3003,  
0.3781

■ 77.6670, 0.2881,  
0.4565

■ 92.2245, 0.3054,  
0.3561

■ 75.5617, 0.2861,  
0.4846

■ 97.5723, 0.3106,  
0.3364

■ 73.9877, 0.2856,  
0.5118

100.0000, 0.3127,  
0.3290

■ 72.8939, 0.2867,  
0.5367

■ 72.2183, 0.2893,  
0.5579

■ 71.9670, 0.2912,  
0.5682

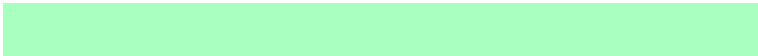
# Harmonies

## Analogous

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



83.6506, 0.3461, 0.4222



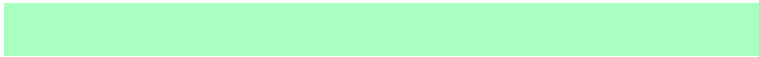
83.6506, 0.2955, 0.4025



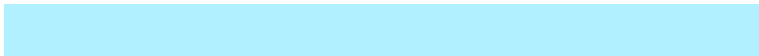
83.6506, 0.2518, 0.3571

# Triad

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



83.6506, 0.2955, 0.4025



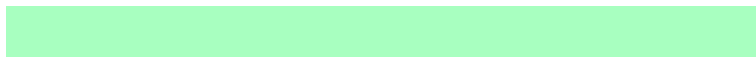
83.6506, 0.2374, 0.2492



83.6506, 0.4085, 0.3396

# Complementary

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



83.6506, 0.2955, 0.4025



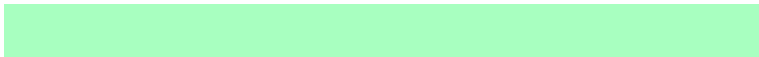
55.0164, 0.3362, 0.2655

# 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.



83.6506, 0.3746, 0.3004



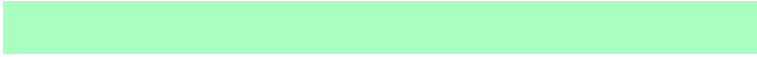
83.6506, 0.2955, 0.4025



83.6506, 0.2739, 0.2503

# Square

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



83.6506, 0.2955, 0.4025



83.6506, 0.2205, 0.2678



83.6506, 0.3239, 0.2687

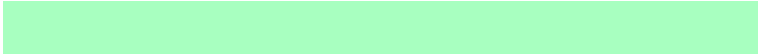


83.6506, 0.4137, 0.3796



# Rectangle

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



83.6506, 0.2955, 0.4025



83.6506, 0.2318, 0.3224



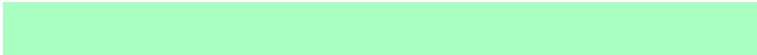
83.6506, 0.3239, 0.2687



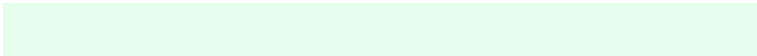
83.6506, 0.4000, 0.3261

# Sweetspot

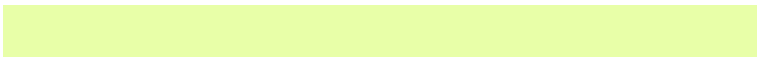
The Sweet Spot groups the original color and five complimentary colors.



83.6445, 0.2955, 0.4025



94.3478, 0.3075, 0.3477



91.4657, 0.3485, 0.4192



20.0369, 0.3068, 0.3505



0.0000, 0.0000, 0.0000

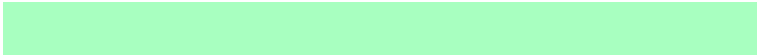


21.4041, 0.3127, 0.3290

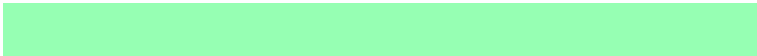


# Same Dimension

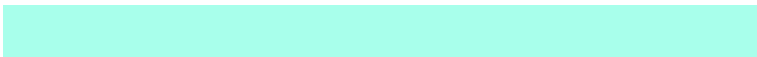
The Same Dimension uses a secret algorithm to generate beautiful new colors.



83.6445, 0.2955, 0.4025



81.3138, 0.2926, 0.4204



85.8200, 0.2739, 0.3516



20.2505, 0.3078, 0.3467



37.6258, 0.2904, 0.5655



3.6810, 0.2844, 0.5437



# Inverse Universe

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



55.0164, 0.3362, 0.2655



48.7156, 0.3424, 0.2529



52.8904, 0.3746, 0.3079



18.2098, 0.3181, 0.3119



12.9574, 0.4059, 0.2010

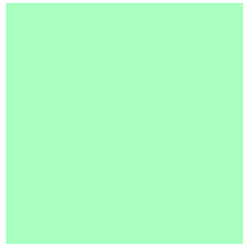


1.2801, 0.3939, 0.1944



# Previews

## White Background



This preview shows how the Yxy color 83.6506, 0.2955, 0.4025 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 83.6506, 0.2955, 0.4025 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

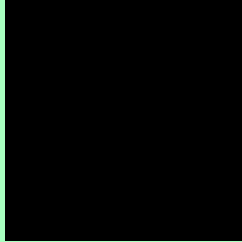
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 83.6506, 0.2955, 0.4025**

## **Background**



This preview shows how black text looks on a background with the Yxy color 83.6506, 0.2955, 0.4025.

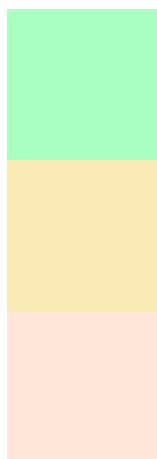


This preview shows how white text looks on a background with the Yxy color 83.6506, 0.2955, 0.4025.

# 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

83.6506, 0.2955, 0.4025

### Protanopia

82.5470, 0.3579, 0.3822

### Deuteranopia

82.8115, 0.3394, 0.3431



## Tritanopia

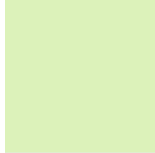
83.4208, 0.2813, 0.3152

# Trichromacy



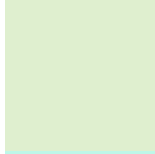
## Original Color

83.6506, 0.2955, 0.4025



## Protanomaly

82.2651, 0.3323, 0.3898



## Deuteranomaly

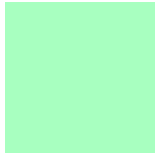
81.9260, 0.3218, 0.3633



## Tritanomaly

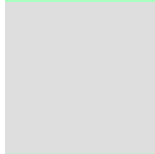
83.2949, 0.2864, 0.3454

# Monochromacy



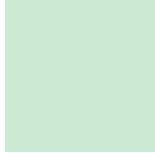
## Original Color

83.6506, 0.2955, 0.4025



## Achromatopsia

73.0461, 0.3127, 0.3290



## Achromatomaly

76.1053, 0.3055, 0.3548

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 83.6506, 0.2955, 0.4025 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(168, 255, 192)` looks like.

```
.text, #text, p{  
    color:rgb(168, 255, 192)  
}
```

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(168, 255, 192) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(168, 255, 192) }
```

## Border

The CSS property to change the border of an element to Yxy 83.6506, 0.2955, 0.4025 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(168, 255, 192) }
```

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

```
.border{ border-color:rgb(168, 255, 192) }
```

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

Here you see how a box with a 4 pixel `rgb(168, 255, 192)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(168, 255, 192); -webkit-box-  
shadow:4px 4px 4px 4px rgb(168, 255, 192);  
box-shadow:4px 4px 4px 4px rgb(168, 255,  
192) }
```



# Background

The CSS property to change the background color of an element to Yxy 83.6506, 0.2955, 0.4025 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(168, 255, 192) }
```

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

```
.background{ background-color: rgb(168,  
255, 192) }
```

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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