

# Converting Colors

$Y_{xy}(81.5018, 0.2946, 0.4218)$

Have a look what the booklet for  
Yxy(81.5018, 0.2946, 0.4218)  
contains.

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# Color

**Yxy(81.5067, 0.2945, 0.4217)**

# Conversions

## Conversions Part 1

Format	Color
Hex	99FFB2
RGB	153, 255, 178
RGB Percent	60%, 100%, 70%
CMY	0.4003, 0.0000, 0.3019
CMYK	0.40, 0.00, 0.30, 0.00
HSL	135°, 100%, 80%
HSV	135°, 40%, 100%
XYZ	56.9213, 81.5067, 54.8532
YIQ	215.7240, -36.0750, -45.5710

# Conversions

## Conversions Part 2

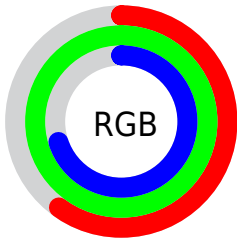
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">153, 235, 255</a>
Decimal	<a href="#">10092466</a>
CIELab	<a href="#">92.36, -45.60, 27.68</a>
CIELCh	<a href="#">92, 53.347, 148.740</a>
Yxy	<a href="#">81.5067, 0.2945, 0.4217</a>
Android (android.graphics.Color)	<a href="#">4288282546 (0xFF99FFB2)</a>
YUV	<a href="#">215.7240, -18.5979, -55.0089</a>
Hunter-Lab	<a href="#">90.2811, -45.4494, 27.1732</a>

# Details

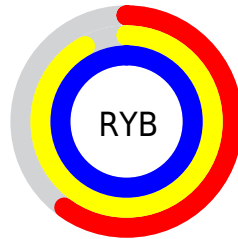
The Yxy color **81.5067, 0.2945, 0.4217** is a light color, and the websafe version is hex **99FF99**. A complement of this color would be **49.7241, 0.3387, 0.2518**, and the grayscale version is **68.6013, 0.3127, 0.3290**.

A 20% lighter version of the original color is **91.3094, 0.2978, 0.3510**, and **44.3556, 0.2886, 0.4457** is the 20% darker color. If you saturate the color by 10%, you get **78.5595, 0.2911, 0.4501**, and if you desaturate by 10%, it is **85.0767, 0.2986, 0.3950**.

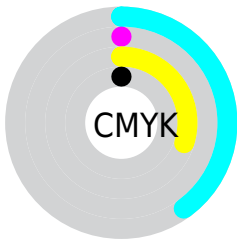
# Distribution



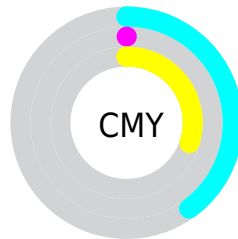
- Red (60%)
- Green (100%)
- Blue (70%)



- Red (60%)
- Yellow (92%)
- Blue (100%)



- Cyan (40%)
- Magenta (0%)
- Yellow (30%)
- Black (0%)



- Cyan (40%)
- Magenta (0%)
- Yellow (30%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 81.5067, 0.2945, 0.4217 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 81.5067, 0.2945, 0.4217 by changing the saturation by 10% instead.





 81.5067, 0.2945,  
0.4217

 81.5067, 0.2945,  
0.4217


499.9961, 0.3041,  
0.3771

 60.9590, 0.2920,  
0.4322


 135.4820, 0.2981,  
0.4059

 44.1921, 0.2888,  
0.4455

 169.6784, 0.2994,  
0.3999

 30.8215, 0.2845,  
0.4624


209.1932, 0.3005,  
0.3947

 20.4630, 0.2784,  
0.4851

254.4107, 0.3014,  
0.3902

 12.7320, 0.2694,  
0.5165

305.7153, 0.3022,  
0.3863

 7.2443, 0.2549,  
0.5625

363.4915, 0.3029,

 3.6153, 0.2298,

0.3829

0.6365

428.1237, 0.3036,  
0.3799

■ 1.4608, 0.1135,  
0.8865

■ 0.2609, 0.0000,  
1.0000

■ 81.5067, 0.2945,  
0.4217

■ 81.5067, 0.2945,  
0.4217

■ 78.5595, 0.2911,  
0.4501

■ 85.0767, 0.2986,  
0.3950

■ 76.2199, 0.2887,  
0.4791

■ 89.3281, 0.3032,  
0.3705

■ 74.4372, 0.2877,  
0.5077

■ 94.2859, 0.3079,  
0.3485

■ 73.1627, 0.2881,  
0.5340

99.9806, 0.3127,  
0.3291

■ 72.3388, 0.2900,  
0.5566

100.0000, 0.3127,  
0.3290

■ 71.8752, 0.2929,  
0.5745

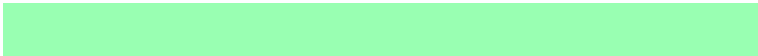
# Harmonies

## Analogous

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



81.5067, 0.3549, 0.4423



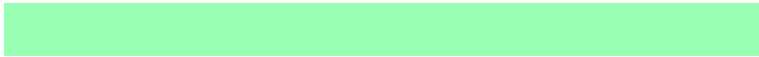
81.5067, 0.2945, 0.4217



81.5067, 0.2421, 0.3664

# Triad

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



81.5067, 0.2945, 0.4217



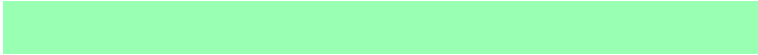
81.5067, 0.2216, 0.2350



81.5067, 0.4269, 0.3373

# Complementary

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



81.5067, 0.2945, 0.4217



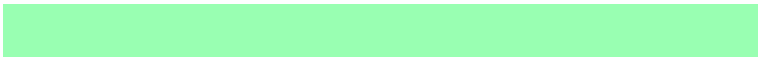
49.7241, 0.3387, 0.2518

# 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.



81.5067, 0.3839, 0.2920



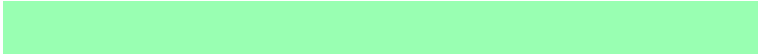
81.5067, 0.2945, 0.4217



81.5067, 0.2629, 0.2356

# Square

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



81.5067, 0.2945, 0.4217



81.5067, 0.2035, 0.2572



81.5067, 0.3219, 0.2561

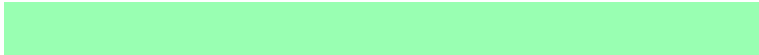


81.5067, 0.4345, 0.3846



# Rectangle

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



81.5067, 0.2945, 0.4217



81.5067, 0.2181, 0.3235



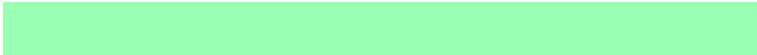
81.5067, 0.3219, 0.2561



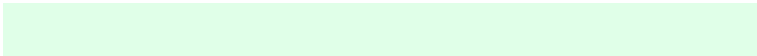
81.5067, 0.4160, 0.3216

# Sweetspot

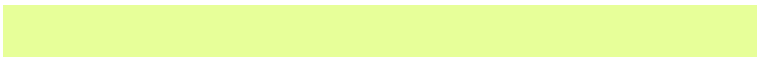
The Sweet Spot groups the original color and five complimentary colors.



81.4989, 0.2945, 0.4217



93.2529, 0.3070, 0.3526



90.8363, 0.3564, 0.4345



19.8166, 0.3064, 0.3554



0.0000, 0.0000, 0.0000

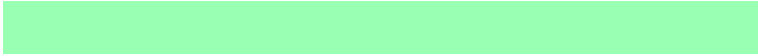


21.4041, 0.3127, 0.3290

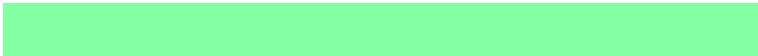


# Same Dimension

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



81.4989, 0.2945, 0.4217



79.1069, 0.2917, 0.4442



83.8735, 0.2699, 0.3602



20.2414, 0.3082, 0.3474



37.5760, 0.2922, 0.5719



3.6751, 0.2864, 0.5509



# Inverse Universe

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



49.7241, 0.3387, 0.2518



43.3576, 0.3456, 0.2373



47.3168, 0.3868, 0.3007



18.2196, 0.3176, 0.3112



13.1301, 0.3950, 0.1950

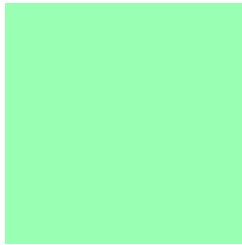


1.2957, 0.3847, 0.1893



# Previews

## White Background



This preview shows how the Yxy color 81.5067, 0.2945, 0.4217 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 81.5067, 0.2945, 0.4217 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

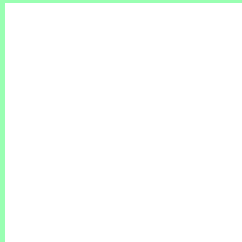
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 81.5067, 0.2945, 0.4217**

## **Background**



This preview shows how black text looks on a background with the Yxy color 81.5067, 0.2945, 0.4217.

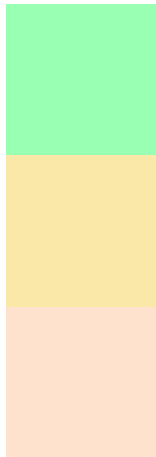


This preview shows how white text looks on a background with the Yxy color 81.5067, 0.2945, 0.4217.

# 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

81.5067, 0.2945, 0.4217

### Protanopia

80.6801, 0.3670, 0.3948

### Deuteranopia

80.1089, 0.3470, 0.3493



## Tritanopia

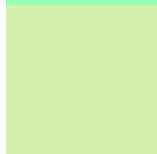
81.2070, 0.2744, 0.3139

# Trichromacy



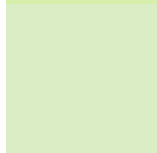
## Original Color

81.5067, 0.2945, 0.4217



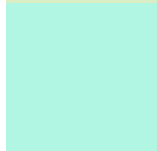
## Protanomaly

79.5949, 0.3370, 0.4044



## Deuteranomaly

79.4593, 0.3254, 0.3739



## Tritanomaly

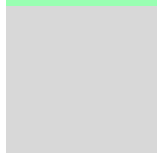
80.8047, 0.2817, 0.3504

# Monochromacy



## Original Color

81.5067, 0.2945, 0.4217



## Achromatopsia

68.6685, 0.3127, 0.3290



## Achromatomaly

72.1954, 0.3051, 0.3614

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 81.5067, 0.2945, 0.4217 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(153, 255, 178)` looks like.

```
.text, #text, p{  
    color:rgb(153, 255, 178)  
}
```

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(153, 255, 178) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(153, 255, 178) }
```

## Border

The CSS property to change the border of an element to Yxy 81.5067, 0.2945, 0.4217 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(153, 255, 178) }
```

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

```
.border{ border-color:rgb(153, 255, 178) }
```

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

Here you see how a box with a 4 pixel rgb(153, 255, 178) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(153, 255, 178); -webkit-box-  
shadow:4px 4px 4px 4px rgb(153, 255, 178);  
box-shadow:4px 4px 4px 4px rgb(153, 255,  
178) }
```



# Background

The CSS property to change the background color of an element to Yxy 81.5067, 0.2945, 0.4217 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(153, 255, 178) }
```

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

```
.background{ background-color: rgb(153,  
255, 178) }
```

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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