

# Converting Colors

$Yxy(81.6898, 0.3483, 0.4970)$

Have a look what the booklet for  
Yxy(81.6898, 0.3483, 0.4970)  
contains.

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# Color

**Yxy(81.9102, 0.3485, 0.4975)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B7FE66
RGB	183, 254, 102
RGB Percent	72%, 100%, 40%
CMY	0.2821, 0.0039, 0.6000
CMYK	0.28, 0.00, 0.60, 0.00
HSL	88°, 99%, 70%
HSV	88°, 60%, 100%
XYZ	57.3783, 81.9102, 25.3551
YIQ	215.4430, 6.4760, -62.3240

# Conversions

## Conversions Part 2

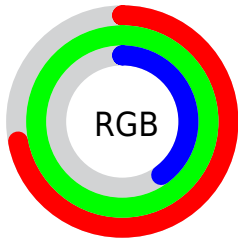
Format	Color
<a href="#">RYB</a>	<a href="#">102, 254, 173</a>
Decimal	<a href="#">12058214</a>
CIELab	<a href="#">92.54, -45.25, 64.08</a>
CIElCh	<a href="#">93, 78.448, 125.224</a>
Yxy	<a href="#">81.9102, 0.3485, 0.4975</a>
Android (android.graphics.Color)	<a href="#">4290248294 (0xFFB7FE66)</a>
YUV	<a href="#">215.4430, -55.9274, -28.4525</a>
Hunter-Lab	<a href="#">90.5043, -45.2162, 46.7427</a>

# Details

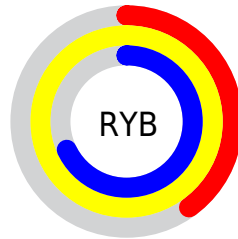
The Yxy color **81.9102, 0.3485, 0.4975** is a light color, and the websafe version is hex **CCFF66**. A complement of this color would be **25.5352, 0.2461, 0.1576**, and the grayscale version is **68.6641, 0.3127, 0.3290**.

A 20% lighter version of the original color is **92.8659, 0.3611, 0.4269**, and **44.5500, 0.3496, 0.5366** is the 20% darker color. If you saturate the color by 10%, you get **80.0911, 0.3497, 0.5225**, and if you desaturate by 10%, it is **84.0132, 0.3452, 0.4694**.

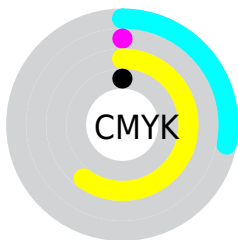
# Distribution



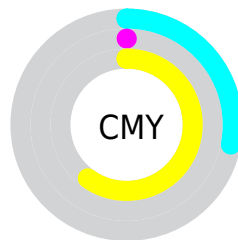
- Red (72%)
- Green (100%)
- Blue (40%)



- Red (40%)
- Yellow (100%)
- Blue (68%)



- Cyan (28%)
- Magenta (0%)
- Yellow (60%)
- Black (0%)




- Cyan (28%)
- Magenta (0%)
- Yellow (60%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 81.9102, 0.3485, 0.4975 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 81.9102, 0.3485, 0.4975 by changing the saturation by 10% instead.





 81.9102, 0.3485,  
0.4975


 81.9102, 0.3485,  
0.4975


501.3473, 0.3376,  
0.4180


 61.2915, 0.3493,  
0.5152


 136.0481, 0.3460,  
0.4701


 44.4605, 0.3493,  
0.5366


 170.3360, 0.3447,  
0.4594

 31.0327, 0.3478,  
0.5627


 209.9492, 0.3434,  
0.4501

 20.6237, 0.3433,  
0.5947

 255.2720, 0.3421,  
0.4420

 12.8492, 0.3334,  
0.6346

306.6888, 0.3408,  
0.4349

 7.3248, 0.3139,  
0.6861

364.5841, 0.3397,

 3.6661, 0.2680,

0.4286

0.7320

429.3421, 0.3386,  
0.4230

■ 1.4886, 0.1259,  
0.8741

■ 0.2807, 0.0000,  
1.0000

■ 81.9102, 0.3485,  
0.4975

■ 81.9102, 0.3485,  
0.4975

■ 80.0911, 0.3497,  
0.5225

■ 84.0132, 0.3452,  
0.4694

■ 78.5276, 0.3486,  
0.5431


■ 86.4051, 0.3402,  
0.4398

■ 77.2028, 0.3452,  
0.5582


■ 89.1037, 0.3341,  
0.4101


■ 76.0853, 0.3400,  
0.5681

■ 92.1221, 0.3272,  
0.3812

 76.0688, 0.3399,  
0.5683

 95.4726, 0.3199,  
0.3539

 99.1667, 0.3126,  
0.3286

 99.3603, 0.3128,  
0.3280

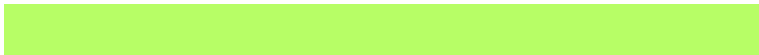
# Harmonies

## Analogous

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



81.9102, 0.4275, 0.4711



81.9102, 0.3485, 0.4975



81.9102, 0.2645, 0.4568

# Triad

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



81.9102, 0.3485, 0.4975



81.9102, 0.1650, 0.2160



81.9102, 0.4341, 0.2874

# Complementary

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



81.9102, 0.3485, 0.4975



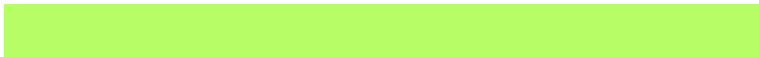
25.5352, 0.2461, 0.1576

# 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.



81.9102, 0.3443, 0.2368



81.9102, 0.3485, 0.4975



81.9102, 0.1952, 0.1962

# Square

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



81.9102, 0.3485, 0.4975



81.9102, 0.1653, 0.2706



81.9102, 0.2565, 0.2046



81.9102, 0.4865, 0.3482



# Rectangle

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



81.9102, 0.3485, 0.4975



81.9102, 0.2172, 0.3956



81.9102, 0.2565, 0.2046



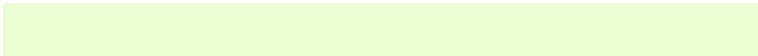
81.9102, 0.4064, 0.2690

# Sweetspot

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



81.9138, 0.3485, 0.4975



93.5495, 0.3259, 0.3760



51.8896, 0.4490, 0.4004



19.8226, 0.3279, 0.3842



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.



81.9138, 0.3485, 0.4975



80.4496, 0.3497, 0.5274



74.9695, 0.3058, 0.5221



20.6450, 0.3197, 0.3530



40.1950, 0.3411, 0.5674



3.9787, 0.3494, 0.5608



# Inverse Universe

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



25.5352, 0.2461, 0.1576



18.9545, 0.2288, 0.1266



36.7846, 0.3146, 0.1876



17.7933, 0.3052, 0.3050



5.9093, 0.1958, 0.0852

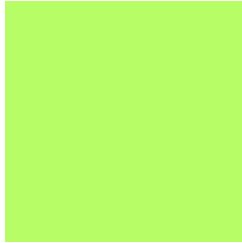


0.6396, 0.2082, 0.0921



# Previews

## White Background



This preview shows how the Yxy color 81.9102, 0.3485, 0.4975 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

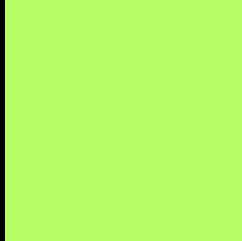
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 81.9102, 0.3485, 0.4975 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

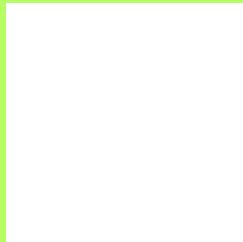
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 81.9102, 0.3485, 0.4975**

## **Background**



This preview shows how black text looks on a background with the Yxy color 81.9102, 0.3485, 0.4975.

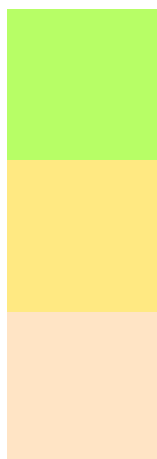


This preview shows how white text looks on a background with the Yxy color 81.9102, 0.3485, 0.4975.

# 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

81.9102, 0.3485, 0.4975

### Protanopia

81.1495, 0.3949, 0.4307

### Deuteranopia

80.7780, 0.3528, 0.3605



## Tritanopia

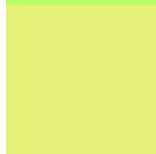
81.6345, 0.2833, 0.3111

# Trichromacy



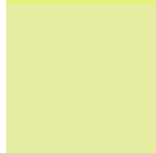
## Original Color

81.9102, 0.3485, 0.4975



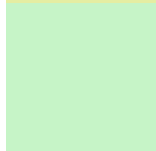
## Protanomaly

80.9247, 0.3774, 0.4548



## Deuteranomaly

79.8350, 0.3546, 0.4096



## Tritanomaly

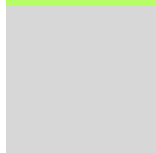
80.8307, 0.3097, 0.3796

# Monochromacy



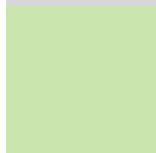
## Original Color

81.9102, 0.3485, 0.4975



## Achromatopsia

67.9542, 0.3127, 0.3290



## Achromatomaly

71.7911, 0.3298, 0.3927

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 81.9102, 0.3485, 0.4975 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(183, 254, 102)` looks like.

```
.text, #text, p{  
    color:rgb(183, 254, 102)  
}
```

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(183, 254, 102) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(183, 254, 102) }
```

## Border

The CSS property to change the border of an element to Yxy 81.9102, 0.3485, 0.4975 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(183, 254, 102) }
```

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

```
.border{ border-color:rgb(183, 254, 102) }
```

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

Here you see how a box with a 4 pixel `rgb(183, 254, 102)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(183, 254, 102); -webkit-box-  
shadow:4px 4px 4px 4px rgb(183, 254, 102);  
box-shadow:4px 4px 4px 4px rgb(183, 254,  
102) }
```



# Background

The CSS property to change the background color of an element to Yxy 81.9102, 0.3485, 0.4975 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(183, 254, 102) }
```

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

```
.background{ background-color: rgb(183,  
254, 102) }
```

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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