

# Converting Colors

$Y_{xy}(82.1790, 0.3655, 0.5310)$

Have a look what the booklet for  
Yxy(82.1790, 0.3655, 0.5310)  
contains.

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**Color**

**Yxy(82.1981, 0.3656, 0.5309)**

# Conversions

## Conversions Part 1

Format	Color
Hex	BAFF33
RGB	186, 255, 51
RGB Percent	73%, 100%, 20%
CMY	0.2707, 0.0000, 0.7996
CMYK	0.27, 0.00, 0.80, 0.00
HSL	80°, 100%, 60%
HSV	80°, 80%, 100%
XYZ	56.6051, 82.1981, 16.0247
YIQ	211.1130, 24.3600, -78.0720

# Conversions

## Conversions Part 2

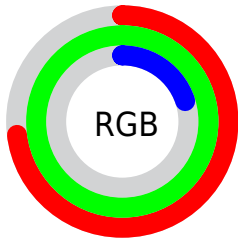
Format	Color
<a href="#">RYB</a>	<a href="#">51, 255, 120</a>
Decimal	<a href="#">12255027</a>
CIELab	<a href="#">92.66, -47.70, 81.75</a>
CIElCh	<a href="#">93, 94.653, 120.262</a>
Yxy	<a href="#">82.1981, 0.3656, 0.5309</a>
Android (android.graphics.Color)	<a href="#">4290445107 (0xFFBAFF33)</a>
YUV	<a href="#">211.1130, -78.9357, -22.0241</a>
Hunter-Lab	<a href="#">90.6632, -47.2150, 52.9847</a>

# Details

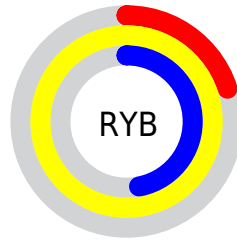
The Yxy color **82.1981, 0.3656, 0.5309** is a light color, and the websafe version is hex **CCFF33**. The color can be described as light washed chartreuse. A complement of this color would be **13.5980, 0.1979, 0.0997**, and the grayscale version is **65.7428, 0.3127, 0.3290**.

A 20% lighter version of the original color is **92.3506, 0.3858, 0.4636**, and **44.9002, 0.3574, 0.5544** is the 20% darker color. If you saturate the color by 10%, you get **80.9807, 0.3638, 0.5440**, and if you desaturate by 10%, it is **83.6005, 0.3649, 0.5128**.

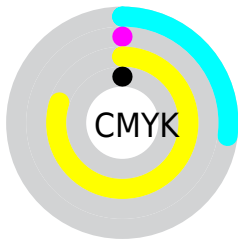
# Distribution



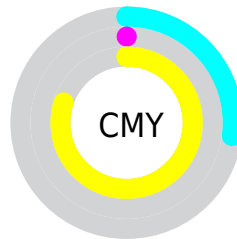
- Red (73%)
- Green (100%)
- Blue (20%)



- Red (20%)
- Yellow (100%)
- Blue (47%)



- Cyan (27%)
- Magenta (0%)
- Yellow (80%)
- Black (0%)




- Cyan (27%)
- Magenta (0%)
- Yellow (80%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 82.1981, 0.3656, 0.5309 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 82.1981, 0.3656, 0.5309 by changing the saturation by 10% instead.





 82.1981, 0.3656,  
0.5309


 82.1981, 0.3656,  
0.5309


502.3101, 0.3509,  
0.4384


 61.5288, 0.3659,  
0.5501

 136.4518, 0.3629,  
0.5000


 44.6521, 0.3648,  
0.5725


 170.8050, 0.3611,  
0.4876

 31.1835, 0.3609,  
0.5983


 210.4883, 0.3593,  
0.4767

 20.7386, 0.3525,  
0.6283

 255.8861, 0.3575,  
0.4672

 12.9331, 0.3367,  
0.6633

 307.3827, 0.3557,  
0.4587

 7.3825, 0.3047,  
0.6953

365.3627, 0.3540,

 3.7024, 0.2568,

0.4512

0.7432

430.2104, 0.3524,  
0.4445

■ 1.5085, 0.1001,  
0.8999

■ 0.2947, 0.0000,  
1.0000

■ 82.1981, 0.3656,  
0.5309

■ 82.1981, 0.3656,  
0.5309

■ 80.9807, 0.3638,  
0.5440

■ 83.6005, 0.3649,  
0.5128


■ 79.9237, 0.3599,  
0.5525

■ 85.2118, 0.3617,  
0.4903

■ 79.9198, 0.3598,  
0.5525

■ 87.0463, 0.3562,  
0.4646

■ 89.1179, 0.3491,  
0.4370

 91.4392, 0.3407,  
0.4087

 94.0217, 0.3315,  
0.3808

 96.8762, 0.3221,  
0.3540

100.0000, 0.3127,  
0.3290

# Harmonies

## Analogous

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



82.1981, 0.4558, 0.4808



82.1981, 0.3656, 0.5309



82.1981, 0.2676, 0.5023

# Triad

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



82.1981, 0.3656, 0.5309



82.1981, 0.1403, 0.2026



82.1981, 0.4424, 0.2679

# Complementary

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



82.1981, 0.3656, 0.5309



13.5980, 0.1979, 0.0997

# 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.



82.1981, 0.3303, 0.2140



82.1981, 0.3656, 0.5309



82.1981, 0.1682, 0.1765

# Square

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



82.1981, 0.3656, 0.5309



82.1981, 0.1451, 0.2714



82.1981, 0.2312, 0.1819



82.1981, 0.5149, 0.3343



# Rectangle

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



82.1981, 0.3656, 0.5309



82.1981, 0.2103, 0.4308



82.1981, 0.2312, 0.1819



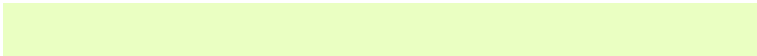
82.1981, 0.4066, 0.2480

# Sweetspot

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



82.1963, 0.3656, 0.5309



92.9465, 0.3353, 0.3920



34.7092, 0.5356, 0.3838



19.6991, 0.3385, 0.4020



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.



82.1963, 0.3656, 0.5309



80.3282, 0.3616, 0.5494



73.6950, 0.3108, 0.5710



20.7648, 0.3217, 0.3529



41.8453, 0.3608, 0.5517



4.1345, 0.3675, 0.5464



# Inverse Universe

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



13.5980, 0.1979, 0.0997



9.7720, 0.1775, 0.0765



24.9710, 0.2871, 0.1461



17.6765, 0.3032, 0.3048



4.8875, 0.1750, 0.0738

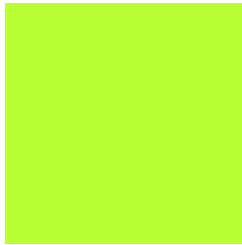


0.5332, 0.1872, 0.0805



# Previews

## White Background



This preview shows how the Yxy color 82.1981, 0.3656, 0.5309 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

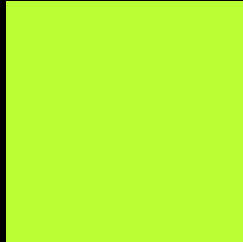
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 82.1981, 0.3656, 0.5309 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

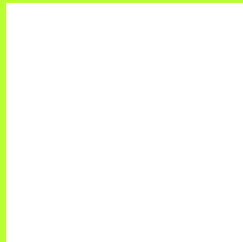
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 82.1981, 0.3656, 0.5309**

## **Background**



This preview shows how black text looks on a background with the Yxy color 82.1981, 0.3656, 0.5309.



This preview shows how white text looks on a background with the Yxy color 82.1981, 0.3656, 0.5309.

# 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

82.1981, 0.3656, 0.5309

### Protanopia

81.1495, 0.3949, 0.4307

### Deuteranopia

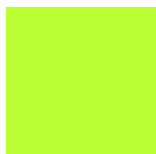
81.2841, 0.3533, 0.3625



## Tritanopia

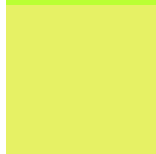
81.6373, 0.2857, 0.3101

# Trichromacy



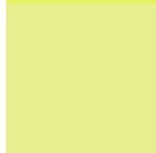
## Original Color

82.1981, 0.3656, 0.5309



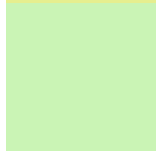
## Protanomaly

80.6732, 0.3874, 0.4704



## Deuteranomaly

79.9552, 0.3666, 0.4300



## Tritanomaly

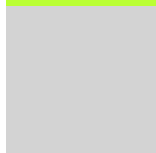
80.5941, 0.3228, 0.4000

# Monochromacy



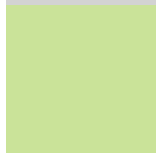
## Original Color

82.1981, 0.3656, 0.5309



## Achromatopsia

65.1406, 0.3127, 0.3290



## Achromatomaly

69.7946, 0.3428, 0.4156

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 82.1981, 0.3656, 0.5309 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(186, 255, 51)` looks like.

```
.text, #text, p{  
    color:rgb(186, 255, 51)  
}
```

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(186, 255, 51) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(186, 255, 51) }
```

## Border

The CSS property to change the border of an element to Yxy 82.1981, 0.3656, 0.5309 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(186, 255, 51) }
```

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

```
.border{ border-color:rgb(186, 255, 51) }
```

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

Here you see how a box with a 4 pixel rgb(186, 255, 51) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(186, 255, 51); -webkit-box-  
shadow:4px 4px 4px 4px rgb(186, 255, 51);  
box-shadow:4px 4px 4px 4px rgb(186, 255,  
51) }
```



# Background

The CSS property to change the background color of an element to Yxy 82.1981, 0.3656, 0.5309 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(186, 255, 51) }
```

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

```
.background{ background-color: rgb(186,  
255, 51) }
```

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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