

# Converting Colors

$Y_{xy}(81.8717, 0.3577, 0.5220)$

Have a look what the booklet for  
Yxy(81.8717, 0.3577, 0.5220)  
contains.

<b>Yxy(81.9200, 0.3581, 0.5220)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

# Color

**Yxy(81.9200, 0.3581, 0.5220)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B6FF47
RGB	182, 255, 71
RGB Percent	71%, 100%, 28%
CMY	0.2861, 0.0000, 0.7214
CMYK	0.29, 0.00, 0.72, 0.00
HSL	84°, 100%, 64%
HSV	84°, 72%, 100%
XYZ	56.1984, 81.9200, 18.8165
YIQ	212.1970, 15.5560, -72.7000

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	71, 255, 144
Decimal	11992903
CIE Lab	92.54, -48.18, 75.74
CIE LCh	93, 89.763, 122.464
Yxy	81.9200, 0.3581, 0.5220
Android (android.graphics.Color)	4290182983 (0xFFB6FF47)
YUV	212.1970, -69.6101, -26.4828
Hunter-Lab	90.5097, -47.5594, 51.0307

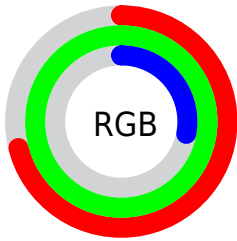
# Details

The Yxy color **81.9200, 0.3581, 0.5220** is a light color, and the websafe version is hex **CCFF33**.

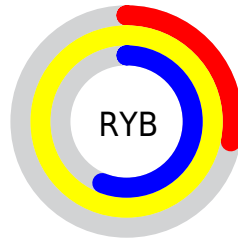
The color can be described as light washed chartreuse. A complement of this color would be **17.6586, 0.2181, 0.1211**, and the grayscale version is **66.4518, 0.3127, 0.3290**.

A 20% lighter version of the original color is **92.0090, 0.3759, 0.4526**, and **44.5991, 0.3542, 0.5570** is the 20% darker color. If you saturate the color by 10%, you get **80.4744, 0.3574, 0.5402**, and if you desaturate by 10%, it is **83.5990, 0.3563, 0.4992**.

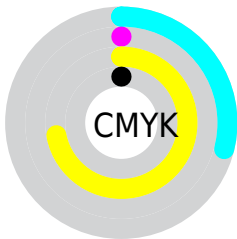
# Distribution



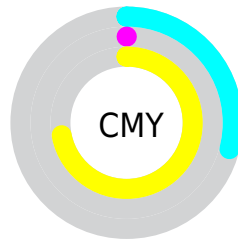
- Red (71%)
- Green (100%)
- Blue (28%)



- Red (28%)
- Yellow (100%)
- Blue (56%)



- Cyan (29%)
- Magenta (0%)
- Yellow (72%)
- Black (0%)




- Cyan (29%)
- Magenta (0%)
- Yellow (72%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 81.9200, 0.3581, 0.5220 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 81.9200, 0.3581, 0.5220 by changing the saturation by 10% instead.





 81.9200, 0.3581,  
0.5220


 81.9200, 0.3581,  
0.5220


501.3801, 0.3453,  
0.4323

 61.2996, 0.3585,  
0.5412

 136.0618, 0.3557,  
0.4916

 44.4670, 0.3575,  
0.5639


 170.3520, 0.3541,  
0.4796

 31.0378, 0.3542,  
0.5907


 209.9676, 0.3526,  
0.4690

 20.6276, 0.3466,  
0.6221

 255.2929, 0.3510,  
0.4598

 12.8521, 0.3348,  
0.6652

 306.7125, 0.3495,  
0.4517

 7.3268, 0.3024,  
0.6976


364.6106, 0.3480,


 3.6673, 0.2538,


0.4445


0.7462


429.3716, 0.3466,  
0.4381


 1.4892, 0.0877,  
0.9123


 0.2811, 0.0000,  
1.0000


 81.9200, 0.3581,  
0.5220

 81.9200, 0.3581,  
0.5220

 80.4744, 0.3574,  
0.5402


 83.5990, 0.3563,  
0.4992


 79.2310, 0.3542,  
0.5530


 85.5177, 0.3524,  
0.4730


 78.3754, 0.3505,  
0.5599

 87.6947, 0.3465,  
0.4448

 90.1435, 0.3394,  
0.4158

 92.8765, 0.3314,  
0.3872

 95.9053, 0.3230,  
0.3599

 99.2406, 0.3145,  
0.3342

99.9970, 0.3127,  
0.3290

# Harmonies

## Analogous

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



81.9200, 0.4455, 0.4806



81.9200, 0.3581, 0.5220



81.9200, 0.2642, 0.4863

# Triad

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



81.9200, 0.3581, 0.5220



81.9200, 0.1476, 0.2052



81.9200, 0.4430, 0.2754

# Complementary

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



81.9200, 0.3581, 0.5220



17.6586, 0.2181, 0.1211

# 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.



81.9200, 0.3378, 0.2218



81.9200, 0.3581, 0.5220



81.9200, 0.1772, 0.1819

# Square

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



81.9200, 0.3581, 0.5220



81.9200, 0.1502, 0.2685



81.9200, 0.2409, 0.1889



81.9200, 0.5077, 0.3405



# Rectangle

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



81.9200, 0.3581, 0.5220



81.9200, 0.2102, 0.4165



81.9200, 0.2409, 0.1889



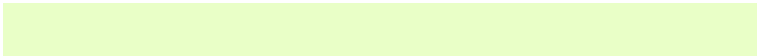
81.9200, 0.4099, 0.2558

# Sweetspot

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



81.9236, 0.3581, 0.5220



92.9212, 0.3313, 0.3868



40.9282, 0.4997, 0.3934



19.7239, 0.3335, 0.3945



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.



81.9236, 0.3581, 0.5220



79.8494, 0.3561, 0.5471



74.2735, 0.3092, 0.5553



20.7104, 0.3208, 0.3529



41.0437, 0.3516, 0.5591



4.0597, 0.3591, 0.5531



# Inverse Universe

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



17.6586, 0.2181, 0.1211



12.3897, 0.1970, 0.0921



29.1445, 0.2995, 0.1614



17.7291, 0.3041, 0.3049



5.3024, 0.1837, 0.0785

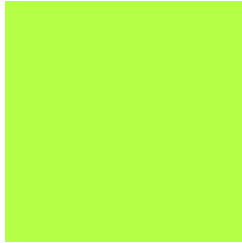


0.5776, 0.1962, 0.0855



# Previews

## White Background



This preview shows how the Yxy color 81.9200, 0.3581, 0.5220 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

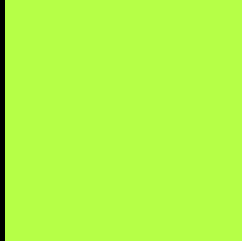
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 81.9200, 0.3581, 0.5220 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 81.9200, 0.3581, 0.5220**

## **Background**



This preview shows how black text looks on a background with the Yxy color 81.9200, 0.3581, 0.5220.

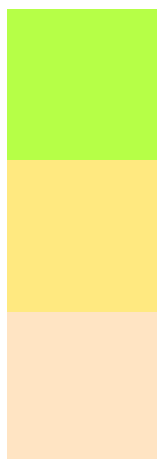


This preview shows how white text looks on a background with the Yxy color 81.9200, 0.3581, 0.5220.

# 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

81.9200, 0.3581, 0.5220

### Protanopia

81.0963, 0.3961, 0.4324

### Deuteranopia

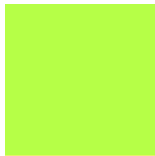
80.6869, 0.3542, 0.3625



## Tritanopia

81.6345, 0.2833, 0.3111

# Trichromacy



## Original Color

81.9200, 0.3581, 0.5220



## Protanomaly

80.4661, 0.3832, 0.4664



## Deuteranomaly

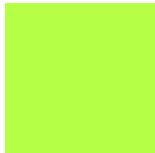
79.8451, 0.3610, 0.4234



## Tritanomaly

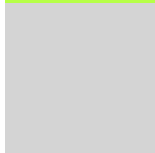
80.3380, 0.3161, 0.3924

# Monochromacy



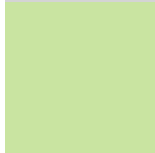
## Original Color

81.9200, 0.3581, 0.5220



## Achromatopsia

65.8375, 0.3127, 0.3290



## Achromatomaly

70.4775, 0.3368, 0.4074

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 81.9200, 0.3581, 0.5220 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(182, 255, 71)` looks like.

```
.text, #text, p{  
    color:rgb(182, 255, 71)  
}
```

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(182, 255, 71) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(182, 255, 71) }
```

## Border

The CSS property to change the border of an element to Yxy 81.9200, 0.3581, 0.5220 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(182, 255, 71) }
```

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

```
.border{ border-color:rgb(182, 255, 71) }
```

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

Here you see how a box with a 4 pixel `rgb(182, 255, 71)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(182, 255, 71); -webkit-box-  
shadow:4px 4px 4px 4px rgb(182, 255, 71);  
box-shadow:4px 4px 4px 4px rgb(182, 255,  
71) }
```



# Background

The CSS property to change the background color of an element to Yxy 81.9200, 0.3581, 0.5220 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(182, 255, 71) }
```

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

```
.background{ background-color: rgb(182,  
255, 71) }
```

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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