

# Converting Colors

$Yxy(83.3450, 0.3540, 0.4984)$

Have a look what the booklet for  
Yxy(83.3450, 0.3540, 0.4984)  
contains.

<b>Yxy(83.3680, 0.3540, 0.4981)</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(83.3680, 0.3540, 0.4981)**

# Conversions

## Conversions Part 1

Format	Color
Hex	BEFF63
RGB	190, 255, 99
RGB Percent	75%, 100%, 39%
CMY	0.2548, 0.0000, 0.6120
CMYK	0.25, 0.00, 0.61, 0.00
HSL	85°, 100%, 69%
HSV	85°, 61%, 100%
XYZ	59.2497, 83.3680, 24.7543
YIQ	217.7810, 11.3360, -62.2960

# Conversions

## Conversions Part 2

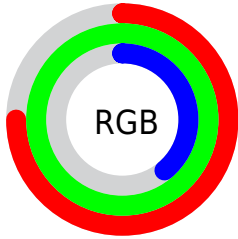
Format	Color
R <sub>Y</sub> B	99, 255, 164
Decimal	12517219
CIE Lab	93.18, -43.46, 66.17
CIE LCh	93, 79.164, 123.298
Yxy	83.3680, 0.3540, 0.4981
Android (android.graphics.Color)	4290707299 (0xFFBEFF63)
YUV	217.7810, -58.5590, -24.3639
Hunter-Lab	91.3061, -43.9547, 47.8399

# Details

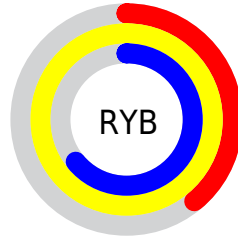
The Yxy color **83.3680, 0.3540, 0.4981** is a light color, and the websafe version is hex **CCFF66**. A complement of this color would be **24.0123, 0.2376, 0.1510**, and the grayscale version is **70.3575, 0.3127, 0.3290**.

A 20% lighter version of the original color is **94.0263, 0.3676, 0.4280**, and **45.4469, 0.3551, 0.5364** is the 20% darker color. If you saturate the color by 10%, you get **81.6397, 0.3557, 0.5216**, and if you desaturate by 10%, it is **85.3543, 0.3501, 0.4713**.

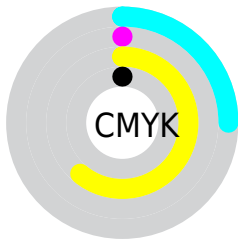
# Distribution



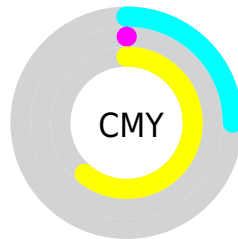
- Red (75%)
- Green (100%)
- Blue (39%)



- Red (39%)
- Yellow (100%)
- Blue (64%)



- Cyan (25%)
- Magenta (0%)
- Yellow (61%)
- Black (0%)




- Cyan (25%)
- Magenta (0%)
- Yellow (61%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 83.3680, 0.3540, 0.4981 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 83.3680, 0.3540, 0.4981 by changing the saturation by 10% instead.





 83.3680, 0.3540,  
0.4981


 83.3680, 0.3540,  
0.4981

506.2121, 0.3408,  
0.4191

 62.4938, 0.3552,  
0.5155


 138.0908, 0.3508,  
0.4710


 45.4318, 0.3557,  
0.5364


 172.7081, 0.3492,  
0.4604

 31.7977, 0.3547,  
0.5616


 212.6752, 0.3476,  
0.4511

 21.2070, 0.3509,  
0.5922

 258.3766, 0.3461,  
0.4431

 13.2754, 0.3421,  
0.6304

310.1966, 0.3446,  
0.4360

 7.6185, 0.3232,  
0.6768

368.5196, 0.3433,

 3.8518, 0.2802,

0.4297

0.7198

433.7300, 0.3420,  
0.4241

■ 1.5910, 0.1698,  
0.8302

■ 0.3515, 0.0000,  
1.0000

■ 83.3680, 0.3540,  
0.4981

■ 83.3680, 0.3540,  
0.4981

■ 81.6397, 0.3557,  
0.5216

■ 85.3543, 0.3501,  
0.4713

■ 80.1454, 0.3549,  
0.5406


■ 87.6069, 0.3445,  
0.4426


■ 78.8671, 0.3517,  
0.5543


■ 90.1419, 0.3376,  
0.4134

■ 77.8949, 0.3474,  
0.5623

■ 92.9717, 0.3299,  
0.3847

 96.1081, 0.3218,  
0.3574

 99.5621, 0.3137,  
0.3319

 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.



83.3680, 0.4322, 0.4682



83.3680, 0.3540, 0.4981



83.3680, 0.2695, 0.4621

# Triad

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



83.3680, 0.3540, 0.4981



83.3680, 0.1637, 0.2181



83.3680, 0.4295, 0.2836

# Complementary

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



83.3680, 0.3540, 0.4981



24.0123, 0.2376, 0.1510

# 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.



83.3680, 0.3383, 0.2338



83.3680, 0.3540, 0.4981



83.3680, 0.1920, 0.1963

# Square

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



83.3680, 0.3540, 0.4981



83.3680, 0.1660, 0.2752



83.3680, 0.2515, 0.2030



83.3680, 0.4854, 0.3441



# Rectangle

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



83.3680, 0.3540, 0.4981



83.3680, 0.2210, 0.4023



83.3680, 0.2515, 0.2030



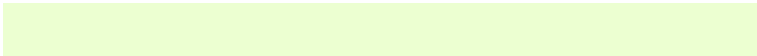
83.3680, 0.4010, 0.2654

# Sweetspot

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



83.3703, 0.3540, 0.4981



93.9428, 0.3274, 0.3758



47.7744, 0.4610, 0.3912



19.9186, 0.3297, 0.3839



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.



83.3703, 0.3540, 0.4981



81.3545, 0.3557, 0.5254



76.0330, 0.3102, 0.5239



20.6919, 0.3205, 0.3529



40.7915, 0.3485, 0.5615



4.0359, 0.3563, 0.5553



# Inverse Universe

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



24.0123, 0.2376, 0.1510



17.6004, 0.2198, 0.1206



34.5495, 0.3049, 0.1809



17.7471, 0.3044, 0.3049



5.4615, 0.1869, 0.0803

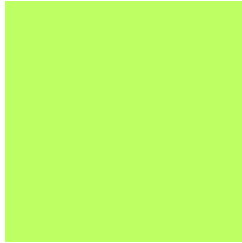


0.5941, 0.1995, 0.0873



# Previews

## White Background



This preview shows how the Yxy color 83.3680, 0.3540, 0.4981 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

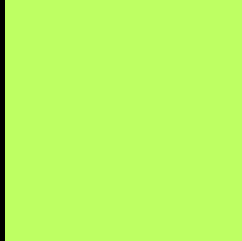
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 83.3680, 0.3540, 0.4981 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

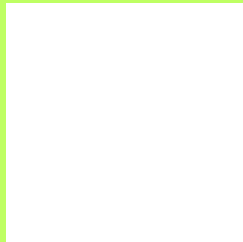
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 83.3680, 0.3540, 0.4981**

## **Background**



This preview shows how black text looks on a background with the Yxy color 83.3680, 0.3540, 0.4981.

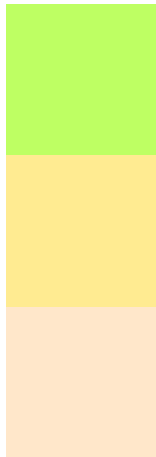


This preview shows how white text looks on a background with the Yxy color 83.3680, 0.3540, 0.4981.

# 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

83.3680, 0.3540, 0.4981

### Protanopia

82.7210, 0.3851, 0.4188

### Deuteranopia

82.6761, 0.3488, 0.3583



## Tritanopia

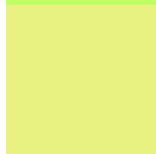
82.6652, 0.2875, 0.3113

# Trichromacy



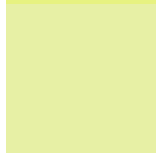
## Original Color

83.3680, 0.3540, 0.4981



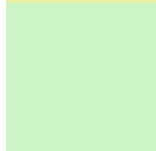
## Protanomaly

82.0517, 0.3743, 0.4476



## Deuteranomaly

82.0257, 0.3534, 0.4089



## Tritanomaly

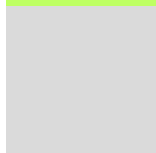
81.7577, 0.3148, 0.3801

# Monochromacy



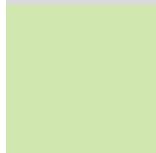
## Original Color

83.3680, 0.3540, 0.4981



## Achromatopsia

70.1102, 0.3127, 0.3290



## Achromatomaly

73.6569, 0.3325, 0.3929

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 83.3680, 0.3540, 0.4981 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(190, 255, 99)` looks like.

```
.text, #text, p{  
    color:rgb(190, 255, 99)  
}
```

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(190, 255, 99) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(190, 255, 99) }
```

## Border

The CSS property to change the border of an element to Yxy 83.3680, 0.3540, 0.4981 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(190, 255, 99) }
```

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

```
.border{ border-color:rgb(190, 255, 99) }
```

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

Here you see how a box with a 4 pixel `rgb(190, 255, 99)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(190, 255, 99); -webkit-box-  
shadow:4px 4px 4px 4px rgb(190, 255, 99);  
box-shadow:4px 4px 4px 4px rgb(190, 255,  
99) }
```



# Background

The CSS property to change the background color of an element to Yxy 83.3680, 0.3540, 0.4981 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(190, 255, 99) }
```

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

```
.background{ background-color: rgb(190,  
255, 99) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor