

# Converting Colors

$Yxy(80.3258, 0.3470, 0.5245)$

Have a look what the booklet for  
Yxy(80.3258, 0.3470, 0.5245)  
contains.

<b>Yxy(80.3807, 0.3472, 0.5241)</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(80.3807, 0.3472, 0.5241)**

# Conversions

## Conversions Part 1

Format	Color
Hex	A8FF4D
RGB	168, 255, 77
RGB Percent	66%, 100%, 30%
CMY	0.3412, 0.0000, 0.6978
CMYK	0.34, 0.00, 0.70, 0.00
HSL	89°, 100%, 65%
HSV	89°, 70%, 100%
XYZ	53.2497, 80.3807, 19.7386
YIQ	208.6950, 5.2860, -73.8020

# Conversions

## Conversions Part 2

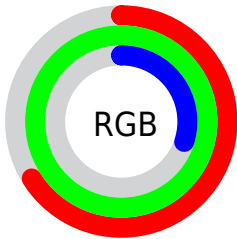
Format	Color
<a href="#">RYB</a>	<a href="#">77, 255, 164</a>
Decimal	<a href="#">11075405</a>
CIELab	<a href="#">91.86, -52.71, 72.77</a>
CIELCh	<a href="#">92, 89.848, 125.916</a>
Yxy	<a href="#">80.3807, 0.3472, 0.5241</a>
Android (android.graphics.Color)	<a href="#">4289265485 (0xFFA8FF4D)</a>
YUV	<a href="#">208.6950, -64.9256, -35.6895</a>
Hunter-Lab	<a href="#">89.6553, -50.8787, 49.7054</a>

# Details

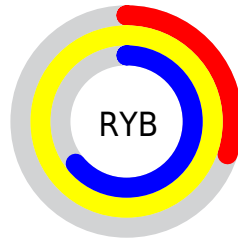
The Yxy color **80.3807, 0.3472, 0.5241** is a light color, and the websafe version is hex **99FF33**. The color can be described as light washed chartreuse. A complement of this color would be **20.4335, 0.2353, 0.1335**, and the grayscale version is **63.9840, 0.3127, 0.3290**.

A 20% lighter version of the original color is **89.7633, 0.3637, 0.4526**, and **43.6394, 0.3434, 0.5655** is the 20% darker color. If you saturate the color by 10%, you get **78.7855, 0.3458, 0.5451**, and if you desaturate by 10%, it is **82.2500, 0.3463, 0.4986**.

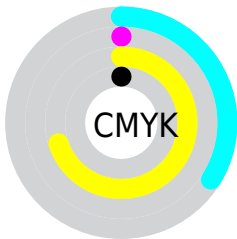
# Distribution



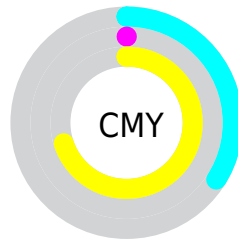
- Red (66%)
- Green (100%)
- Blue (30%)



- Red (30%)
- Yellow (100%)
- Blue (64%)



- Cyan (34%)
- Magenta (0%)
- Yellow (70%)
- Black (0%)




- Cyan (34%)
- Magenta (0%)
- Yellow (70%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 80.3807, 0.3472, 0.5241 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 80.3807, 0.3472, 0.5241 by changing the saturation by 10% instead.




 80.3807, 0.3472,  
0.5241

 80.3807, 0.3472,  
0.5241


496.2149, 0.3391,  
0.4320

 60.0317, 0.3467,  
0.5443


 133.9008, 0.3463,  
0.4925

 43.4442, 0.3447,  
0.5685

 167.8408, 0.3453,  
0.4801

 30.2338, 0.3401,  
0.5974


 207.0798, 0.3443,  
0.4693

 20.0161, 0.3309,  
0.6319

 252.0022, 0.3432,  
0.4599

 12.4067, 0.3180,  
0.6820

302.9926, 0.3421,  
0.4516

 7.0213, 0.2817,  
0.7183


360.4352, 0.3411,


 3.4754, 0.2277,

0.4443

0.7723


424.7145, 0.3400,  
0.4378

 1.3847, 0.0000,  
1.0000


 0.2054, 0.0000,  
1.0000


 80.3807, 0.3472,  
0.5241


 80.3807, 0.3472,  
0.5241


 78.7855, 0.3458,  
0.5451


 82.2500, 0.3463,  
0.4986

 77.4405, 0.3423,  
0.5605


 84.4090, 0.3433,  
0.4702


 76.3147, 0.3369,  
0.5706

 86.8748, 0.3387,  
0.4402

 76.2919, 0.3368,  
0.5708

 89.6623, 0.3329,  
0.4102

 92.7851, 0.3264,  
0.3811

 96.2561, 0.3195,  
0.3538

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.



80.3807, 0.4370, 0.4884



80.3807, 0.3472, 0.5241



80.3807, 0.2535, 0.4775

# Triad

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



80.3807, 0.3472, 0.5241



80.3807, 0.1485, 0.1999



80.3807, 0.4544, 0.2821

# Complementary

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



80.3807, 0.3472, 0.5241



20.4335, 0.2353, 0.1335

# 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.



80.3807, 0.3505, 0.2265



80.3807, 0.3472, 0.5241



80.3807, 0.1819, 0.1804

# Square

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



80.3807, 0.3472, 0.5241



80.3807, 0.1473, 0.2583



80.3807, 0.2501, 0.1907



80.3807, 0.5121, 0.3483



# Rectangle

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



80.3807, 0.3472, 0.5241



80.3807, 0.2016, 0.4032



80.3807, 0.2501, 0.1907



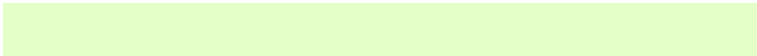
80.3807, 0.4224, 0.2619

# Sweetspot

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



80.3816, 0.3472, 0.5241



92.3865, 0.3272, 0.3846



48.0128, 0.4757, 0.4101



19.5851, 0.3291, 0.3925



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.



80.3816, 0.3472, 0.5241



78.1890, 0.3446, 0.5523



73.7630, 0.3031, 0.5533



20.6245, 0.3193, 0.3530



39.9534, 0.3380, 0.5699



3.9551, 0.3464, 0.5631



# Inverse Universe

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



20.4335, 0.2353, 0.1335



14.8595, 0.2166, 0.1051



33.2372, 0.3171, 0.1732



17.8137, 0.3056, 0.3050



6.1261, 0.1999, 0.0875

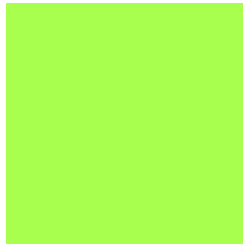


0.6612, 0.2123, 0.0943



# Previews

## White Background



This preview shows how the Yxy color 80.3807, 0.3472, 0.5241 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

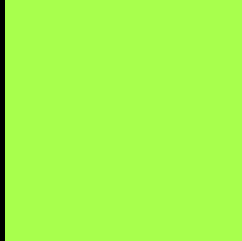
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 80.3807, 0.3472, 0.5241 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

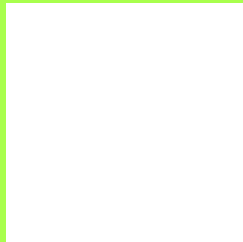
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 80.3807, 0.3472, 0.5241**

## **Background**



This preview shows how black text looks on a background with the Yxy color 80.3807, 0.3472, 0.5241.

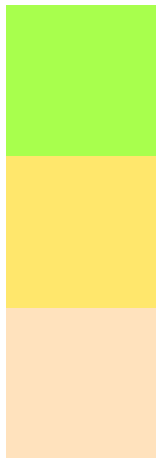


This preview shows how white text looks on a background with the Yxy color 80.3807, 0.3472, 0.5241.

# 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

80.3807, 0.3472, 0.5241

### Protanopia

79.4945, 0.4081, 0.4473

### Deuteranopia

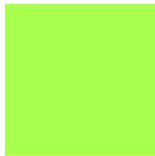
79.3268, 0.3588, 0.3667



## Tritanopia

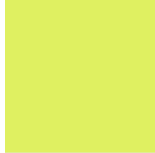
79.5241, 0.2768, 0.3096

# Trichromacy



## Original Color

80.3807, 0.3472, 0.5241



## Protanomaly

78.8712, 0.3845, 0.4757



## Deuteranomaly

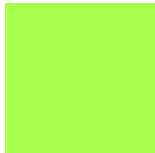
78.3945, 0.3588, 0.4258



## Tritanomaly

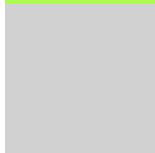
78.8582, 0.3073, 0.3915

# Monochromacy



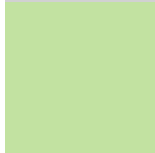
## Original Color

80.3807, 0.3472, 0.5241



## Achromatopsia

63.7597, 0.3127, 0.3290



## Achromatomaly

68.4353, 0.3320, 0.4066

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 80.3807, 0.3472, 0.5241 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(168, 255, 77)` looks like.

```
.text, #text, p{  
    color:rgb(168, 255, 77)  
}
```

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(168, 255, 77) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(168, 255, 77) }
```

## Border

The CSS property to change the border of an element to Yxy 80.3807, 0.3472, 0.5241 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(168, 255, 77) }
```

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

```
.border{ border-color:rgb(168, 255, 77) }
```

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

Here you see how a box with a 4 pixel rgb(168, 255, 77) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(168, 255, 77); -webkit-box-  
shadow:4px 4px 4px 4px rgb(168, 255, 77);  
box-shadow:4px 4px 4px 4px rgb(168, 255,  
77) }
```



# Background

The CSS property to change the background color of an element to Yxy 80.3807, 0.3472, 0.5241 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(168, 255, 77) }
```

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

```
.background{ background-color: rgb(168,  
255, 77) }
```

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