

# Converting Colors

$Yxy(80.9127, 0.3585, 0.5361)$

Have a look what the booklet for  
Yxy(80.9127, 0.3585, 0.5361)  
contains.

<b>Yxy(80.8730, 0.3583, 0.5363)</b> .....	3
<b>Conversions</b> .....	4
<b>Details</b> .....	6
<b>Harmonies</b> .....	12
<b>Previews</b> .....	24
<b>Color Blindness Simulation</b> .....	27
<b>CSS Examples</b> .....	30

**Color**

**Yxy(80.8730, 0.3583, 0.5363)**

# Conversions

## Conversions Part 1

Format	Color
Hex	AFFF33
RGB	175, 255, 51
RGB Percent	69%, 100%, 20%
CMY	0.3139, 0.0000, 0.8000
CMYK	0.31, 0.00, 0.80, 0.00
HSL	84°, 100%, 60%
HSV	84°, 80%, 100%
XYZ	54.0309, 80.8730, 15.8941
YIQ	207.8240, 17.8040, -80.4040

# Conversions

## Conversions Part 2

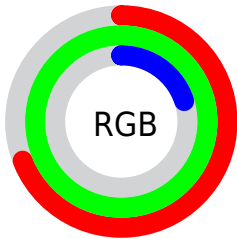
<b>Format</b>	<b>Color</b>
<b>RYB</b>	51, 255, 131
Decimal	11534131
CIELab	92.08, -51.65, 81.03
CIElCh	92, 96.089, 122.512
Yxy	80.8730, 0.3583, 0.5363
Android (android.graphics.Color)	4289724211 (0xFFAFF33)
YUV	207.8240, -77.3142, -28.7866
Hunter-Lab	89.9294, -50.1310, 52.4717

# Details

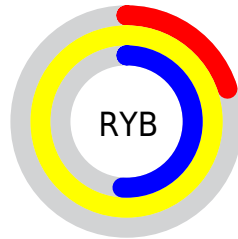
The Yxy color **80.8730, 0.3583, 0.5363** is a light color, and the websafe version is hex **99FF33**. The color can be described as light washed chartreuse. A complement of this color would be **14.4172, 0.2059, 0.1038**, and the grayscale version is **63.4516, 0.3127, 0.3290**.

A 20% lighter version of the original color is **90.4200, 0.3781, 0.4676**, and **44.0330, 0.3479, 0.5619** is the 20% darker color. If you saturate the color by 10%, you get **79.5874, 0.3557, 0.5503**, and if you desaturate by 10%, it is **82.3594, 0.3584, 0.5171**.

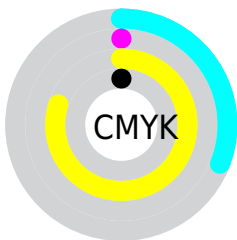
# Distribution



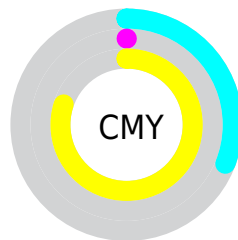
- Red (69%)
- Green (100%)
- Blue (20%)



- Red (20%)
- Yellow (100%)
- Blue (51%)



- Cyan (31%)
- Magenta (0%)
- Yellow (80%)
- Black (0%)




- Cyan (31%)
- Magenta (0%)
- Yellow (80%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 80.8730, 0.3583, 0.5363 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 80.8730, 0.3583, 0.5363 by changing the saturation by 10% instead.





 80.8730, 0.3583,  
0.5363

 80.8730, 0.3583,  
0.5363


497.8701, 0.3470,  
0.4403

 60.4370, 0.3578,  
0.5566


 134.5924, 0.3568,  
0.5040


 43.7710, 0.3557,  
0.5802

 168.6447, 0.3555,  
0.4911


 30.4905, 0.3505,  
0.6078


 208.0044, 0.3540,  
0.4798

 20.2112, 0.3404,  
0.6402

 253.0561, 0.3526,  
0.4699

 12.5487, 0.3221,  
0.6779

 304.1841, 0.3511,  
0.4612

 7.1185, 0.2868,  
0.7132

361.7729, 0.3497,

 3.5363, 0.2343,

0.4534

0.7657

426.2067, 0.3483,  
0.4465

■ 1.4177, 0.0069,  
0.9931

■ 0.2297, 0.0000,  
1.0000

■ 80.8730, 0.3583,  
0.5363

■ 80.8730, 0.3583,  
0.5363

■ 79.5874, 0.3557,  
0.5503

■ 82.3594, 0.3584,  
0.5171


■ 78.4841, 0.3512,  
0.5594


■ 84.0782, 0.3561,  
0.4936


■ 78.4838, 0.3512,  
0.5594

■ 86.0418, 0.3516,  
0.4669

■ 88.2648, 0.3454,  
0.4385

 90.7606, 0.3380,  
0.4095

 93.5411, 0.3298,  
0.3812

 96.6178, 0.3212,  
0.3542

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.



80.8730, 0.4514, 0.4880



80.8730, 0.3583, 0.5363



80.8730, 0.2592, 0.5000

# Triad

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



80.8730, 0.3583, 0.5363



80.8730, 0.1387, 0.1970



80.8730, 0.4526, 0.2714

# Complementary

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



80.8730, 0.3583, 0.5363



14.4172, 0.2059, 0.1038

# 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.



80.8730, 0.3392, 0.2155



80.8730, 0.3583, 0.5363



80.8730, 0.1694, 0.1735

# Square

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



80.8730, 0.3583, 0.5363



80.8730, 0.1408, 0.2629



80.8730, 0.2361, 0.1812



80.8730, 0.5214, 0.3391



# Rectangle

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



80.8730, 0.3583, 0.5363



80.8730, 0.2025, 0.4233



80.8730, 0.2361, 0.1812



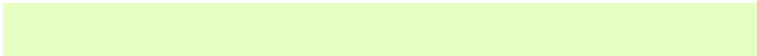
80.8730, 0.4169, 0.2510

# Sweetspot

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



80.8690, 0.3583, 0.5363



92.3931, 0.3331, 0.3924



37.2537, 0.5251, 0.3935



19.5656, 0.3360, 0.4026



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.



80.8690, 0.3583, 0.5363



78.9086, 0.3531, 0.5561



73.2472, 0.3073, 0.5736



20.7143, 0.3208, 0.3529



41.0984, 0.3522, 0.5585



4.0649, 0.3597, 0.5526



# Inverse Universe

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



14.4172, 0.2059, 0.1038



10.5207, 0.1856, 0.0809



26.6108, 0.2971, 0.1513



17.7253, 0.3040, 0.3049



5.2699, 0.1830, 0.0782

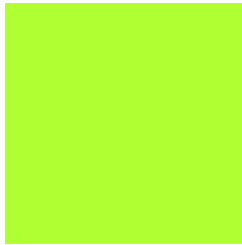


0.5742, 0.1955, 0.0851



# Previews

## White Background



This preview shows how the Yxy color 80.8730, 0.3583, 0.5363 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

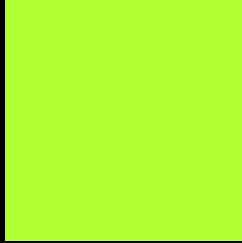
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 80.8730, 0.3583, 0.5363 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 80.8730, 0.3583, 0.5363**

## **Background**



This preview shows how black text looks on a background with the Yxy color 80.8730, 0.3583, 0.5363.

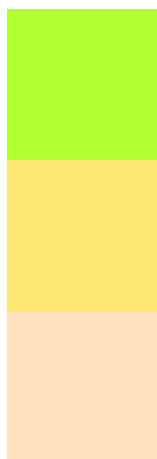


This preview shows how white text looks on a background with the Yxy color 80.8730, 0.3583, 0.5363.

# 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

80.8730, 0.3583, 0.5363

### Protanopia

80.1881, 0.4044, 0.4434

### Deuteranopia

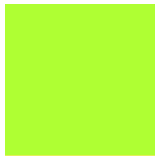
79.9159, 0.3579, 0.3667



## Tritanopia

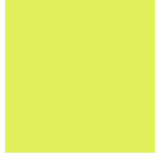
80.3449, 0.2803, 0.3098

# Trichromacy



## Original Color

80.8730, 0.3583, 0.5363



## Protanomaly

79.2443, 0.3893, 0.4789



## Deuteranomaly

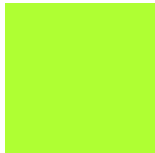
78.6012, 0.3663, 0.4342



## Tritanomaly

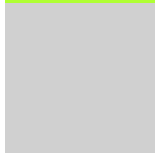
79.2440, 0.3163, 0.4014

# Monochromacy



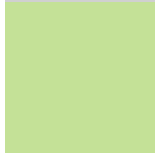
## Original Color

80.8730, 0.3583, 0.5363



## Achromatopsia

63.0757, 0.3127, 0.3290



## Achromatomaly

67.8206, 0.3401, 0.4172

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 80.8730, 0.3583, 0.5363 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(175, 255, 51)` looks like.

```
.text, #text, p{  
    color:rgb(175, 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(175, 255, 51) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(175, 255, 51) }
```

## Border

The CSS property to change the border of an element to Yxy 80.8730, 0.3583, 0.5363 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(175, 255, 51) }
```

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

```
.border{ border-color:rgb(175, 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(175, 255, 51)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(175, 255, 51); -webkit-box-  
shadow:4px 4px 4px 4px rgb(175, 255, 51);  
box-shadow:4px 4px 4px 4px rgb(175, 255,  
51) }
```



# Background

The CSS property to change the background color of an element to Yxy 80.8730, 0.3583, 0.5363 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(175, 255, 51) }
```

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

```
.background{ background-color: rgb(175,  
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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