

# Converting Colors

$Yxy(76.4102, 0.3306, 0.5566)$

Have a look what the booklet for  
Yxy(76.4102, 0.3306, 0.5566)  
contains.

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# Color

**Yxy(76.4261, 0.3307, 0.5565)**

# Conversions

## Conversions Part 1

Format	Color
Hex	81FF33
RGB	129, 255, 51
RGB Percent	51%, 100%, 20%
CMY	0.4939, 0.0000, 0.7999
CMYK	0.49, 0.00, 0.80, 0.00
HSL	97°, 100%, 60%
HSV	97°, 80%, 100%
XYZ	45.4162, 76.4261, 15.4912
YIQ	194.0700, -9.6120, -90.1560

# Conversions

## Conversions Part 2

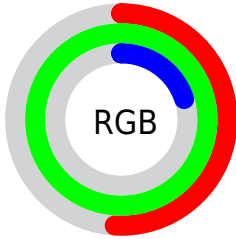
Format	Color
<a href="#">RYB</a>	<a href="#">51, 255, 177</a>
Decimal	<a href="#">8519475</a>
CIELab	<a href="#">90.06, -66.25, 78.45</a>
CIELCh	<a href="#">90, 102.677, 130.180</a>
Yxy	<a href="#">76.4261, 0.3307, 0.5565</a>
Android (android.graphics.Color)	<a href="#">4286709555 (0xFF81FF33)</a>
YUV	<a href="#">194.0700, -70.5335, -57.0664</a>
Hunter-Lab	<a href="#">87.4220, -60.2569, 50.6892</a>

# Details

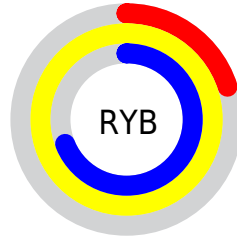
The Yxy color **76.4261, 0.3307, 0.5565** is a dark color, and the websafe version is hex **66FF33**. The color can be described as middle washed chartreuse. A complement of this color would be **18.9334, 0.2448, 0.1241**, and the grayscale version is **54.4319, 0.3127, 0.3290**.

A 20% lighter version of the original color is **83.8113, 0.3484, 0.4844**, and **40.9246, 0.3147, 0.5883** is the 20% darker color. If you saturate the color by 10%, you get **75.1226, 0.3264, 0.5730**, and if you desaturate by 10%, it is **78.0494, 0.3333, 0.5338**.

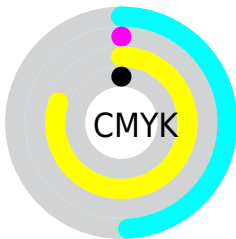
# Distribution



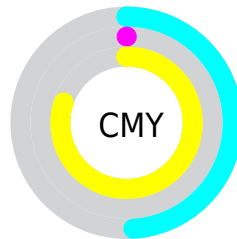
- Red (51%)
- Green (100%)
- Blue (20%)



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



- Cyan (49%)
- Magenta (0%)
- Yellow (80%)
- Black (0%)




- Cyan (49%)
- Magenta (0%)
- Yellow (80%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 76.4261, 0.3307, 0.5565 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 76.4261, 0.3307, 0.5565 by changing the saturation by 10% instead.



 76.4261, 0.3307,  
0.5565

 76.4261, 0.3307,  
0.5565


482.8051, 0.3326,  
0.4470

 56.7820, 0.3271,  
0.5807

 128.3290, 0.3338,  
0.5188

 40.8302, 0.3211,  
0.6095


 161.3567, 0.3343,  
0.5039

 28.1864, 0.3108,  
0.6437

 199.6142, 0.3344,  
0.4911

 18.4663, 0.2943,  
0.6853

 243.4861, 0.3342,  
0.4800

 11.2852, 0.2666,  
0.7334

 293.3568, 0.3339,  
0.4702

 6.2590, 0.2195,  
0.7805

349.6105, 0.3335,

 3.0032, 0.1411,

0.4615

0.8589

412.6318, 0.3331,  
0.4539

■ 1.1334, 0.0000,  
1.0000

■ 0.0063, 0.0000,  
1.0000

■ 76.4261, 0.3307,  
0.5565

■ 76.4261, 0.3307,  
0.5565

■ 75.1226, 0.3264,  
0.5730

■ 78.0494, 0.3333,  
0.5338


■ 74.0914, 0.3209,  
0.5834


■ 80.0083, 0.3339,  
0.5063

■ 74.0907, 0.3209,  
0.5834

■ 82.3285, 0.3328,  
0.4758

■ 85.0303, 0.3303,  
0.4440

 88.1320, 0.3267,  
0.4125

 91.6508, 0.3223,  
0.3824

 95.6027, 0.3176,  
0.3545

99.9994, 0.3127,  
0.3290

# Harmonies

## Analogous

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



76.4261, 0.4341, 0.5157



76.4261, 0.3307, 0.5565



76.4261, 0.2281, 0.4892

# Triad

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



76.4261, 0.3307, 0.5565



76.4261, 0.1330, 0.1774



76.4261, 0.4907, 0.2836

# Complementary

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



76.4261, 0.3307, 0.5565



18.9334, 0.2448, 0.1241

# 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.



76.4261, 0.3732, 0.2209



76.4261, 0.3307, 0.5565



76.4261, 0.1739, 0.1628

# Square

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



76.4261, 0.3307, 0.5565



76.4261, 0.1259, 0.2329



76.4261, 0.2545, 0.1785



76.4261, 0.5438, 0.3558



# Rectangle

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



76.4261, 0.3307, 0.5565



76.4261, 0.1746, 0.3941



76.4261, 0.2545, 0.1785



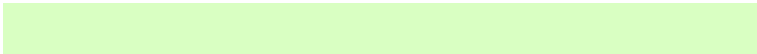
76.4261, 0.4559, 0.2612

# Sweetspot

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



76.4294, 0.3307, 0.5565



90.1900, 0.3241, 0.3942



52.8672, 0.4766, 0.4380



19.0386, 0.3257, 0.4050



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.



76.4294, 0.3307, 0.5565



74.4759, 0.3231, 0.5797



72.7293, 0.2959, 0.5605



20.5067, 0.3174, 0.3532



38.7933, 0.3220, 0.5825



3.8376, 0.3308, 0.5756



# Inverse Universe

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



18.9334, 0.2448, 0.1241



15.0559, 0.2291, 0.1047



29.4102, 0.3453, 0.1786



17.9331, 0.3076, 0.3051



7.6307, 0.2269, 0.1023

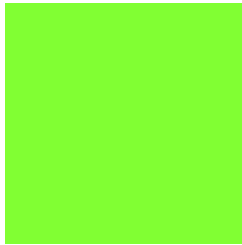


0.8058, 0.2374, 0.1082



# Previews

## White Background



This preview shows how the Yxy color 76.4261, 0.3307, 0.5565 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

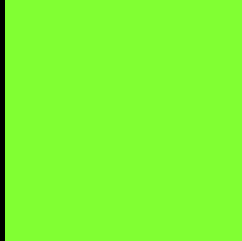
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 76.4261, 0.3307, 0.5565 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

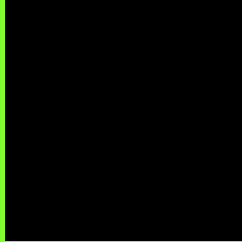
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

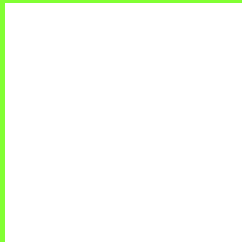
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 76.4261, 0.3307, 0.5565**

## **Background**



This preview shows how black text looks on a background with the Yxy color 76.4261, 0.3307, 0.5565.

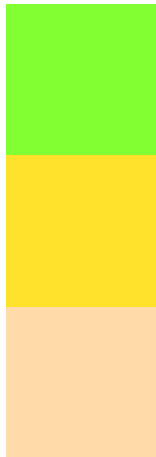


This preview shows how white text looks on a background with the Yxy color 76.4261, 0.3307, 0.5565.

# 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

76.4261, 0.3307, 0.5565

### Protanopia

74.9075, 0.4352, 0.4803

### Deuteranopia

74.8253, 0.3743, 0.3794



## Tritanopia

75.8954, 0.2606, 0.3087

# Trichromacy



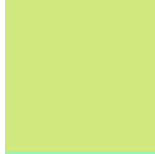
## Original Color

76.4261, 0.3307, 0.5565



## Protanomaly

73.5981, 0.3926, 0.5114



## Deuteranomaly

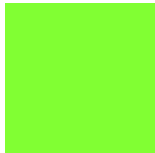
72.8008, 0.3623, 0.4472



## Tritanomaly

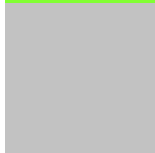
74.8099, 0.2926, 0.4067

# Monochromacy



## Original Color

76.4261, 0.3307, 0.5565



## Achromatopsia

53.9479, 0.3127, 0.3290



## Achromatomaly

59.6108, 0.3280, 0.4249

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 76.4261, 0.3307, 0.5565 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(129, 255, 51)` looks like.

```
.text, #text, p{  
    color:rgb(129, 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(129, 255, 51) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(129, 255, 51) }
```

## Border

The CSS property to change the border of an element to Yxy 76.4261, 0.3307, 0.5565 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(129, 255, 51) }
```

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

```
.border{ border-color:rgb(129, 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(129, 255, 51)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(129, 255, 51); -webkit-box-  
shadow:4px 4px 4px 4px rgb(129, 255, 51);  
box-shadow:4px 4px 4px 4px rgb(129, 255,  
51) }
```



# Background

The CSS property to change the background color of an element to Yxy 76.4261, 0.3307, 0.5565 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(129, 255, 51) }
```

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

```
.background{ background-color: rgb(129,  
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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