

# Converting Colors

$Y_{xy}(78.6000, 0.3517, 0.5585)$

Have a look what the booklet for  
Yxy(78.6000, 0.3517, 0.5585)  
contains.

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# Color

**Yxy(78.5945, 0.3516, 0.5585)**

# Conversions

## Conversions Part 1

Format	Color
Hex	9CFF03
RGB	156, 255, 3
RGB Percent	61%, 100%, 1%
CMY	0.3885, 0.0000, 0.9877
CMYK	0.39, 0.00, 0.99, 0.00
HSL	84°, 100%, 51%
HSV	84°, 99%, 100%
XYZ	49.4787, 78.5945, 12.6511
YIQ	196.6710, 21.8880, -99.3600

# Conversions

## Conversions Part 2

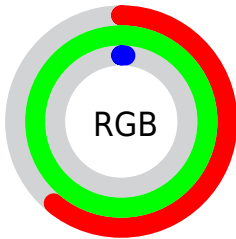
Format	Color
R <sub>Y</sub> B	3, 255, 102
Decimal	10288899
CIE Lab	91.05, -59.21, 86.98
CIE LCh	91, 105.215, 124.243
Yxy	78.5945, 0.3516, 0.5585
Android (android.graphics.Color)	4288478979 (0xFF9CFF03)
YUV	196.6710, -95.4798, -35.6685
Hunter-Lab	88.6535, -55.5206, 53.5966

# Details

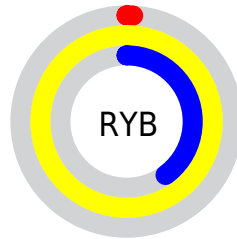
The Yxy color **78.5945, 0.3516, 0.5585** is a dark color, and the websafe version is hex **99FF00**. The color can be described as middle saturated chartreuse. A complement of this color would be **10.1236, 0.1828, 0.0785**, and the grayscale version is **56.2005, 0.3127, 0.3290**.

A 20% lighter version of the original color is **87.0799, 0.3743, 0.4909**, and **42.7679, 0.3329, 0.5739** is the 20% darker color. If you saturate the color by 10%, you get **78.4600, 0.3510, 0.5595**, and if you desaturate by 10%, it is **79.7106, 0.3560, 0.5489**.

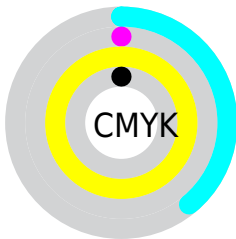
# Distribution



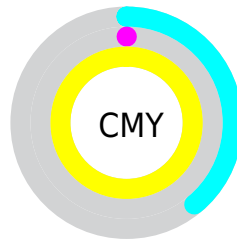
- Red (61%)
- Green (100%)
- Blue (1%)



- Red (1%)
- Yellow (100%)
- Blue (40%)



- Cyan (39%)
- Magenta (0%)
- Yellow (99%)
- Black (0%)




- Cyan (39%)
- Magenta (0%)
- Yellow (99%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 78.5945, 0.3516, 0.5585 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 78.5945, 0.3516, 0.5585 by changing the saturation by 10% instead.





 78.5945, 0.3516,  
0.5585


 78.5945, 0.3516,  
0.5585

490.1835, 0.3457,  
0.4517

 58.5625, 0.3492,  
0.5808


 131.3878, 0.3525,  
0.5227


 42.2610, 0.3444,  
0.6065


 164.9179, 0.3520,  
0.5084

 29.3057, 0.3354,  
0.6360


 203.7162, 0.3511,  
0.4958

 19.3122, 0.3225,  
0.6749

 248.1670, 0.3501,  
0.4848

 11.8961, 0.2938,  
0.7062

 298.6547, 0.3490,  
0.4750

 6.6730, 0.2523,  
0.7477

 355.5638, 0.3479,

 3.2584, 0.1911,

0.4664

0.8089

419.2786, 0.3468,  
0.4587

■ 1.2681, 0.0000,  
1.0000

■ 0.1163, 0.0000,  
1.0000

■ 78.5945, 0.3516,  
0.5585

■ 78.5945, 0.3516,  
0.5585


■ 78.4600, 0.3510,  
0.5595


■ 79.7106, 0.3560,  
0.5489


■ 81.0174, 0.3583,  
0.5343


■ 82.5362, 0.3582,  
0.5145


■ 84.2858, 0.3556,  
0.4905

 86.2826, 0.3509,  
0.4635

 88.5409, 0.3445,  
0.4349

 91.0739, 0.3369,  
0.4060

 93.8935, 0.3287,  
0.3778

 97.0110, 0.3202,  
0.3510

# Harmonies

## Analogous

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



78.5945, 0.4537, 0.5023



78.5945, 0.3516, 0.5585



78.5945, 0.2458, 0.5153

# Triad

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



78.5945, 0.3516, 0.5585



78.5945, 0.1271, 0.1828



78.5945, 0.4732, 0.2692

# Complementary

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



78.5945, 0.3516, 0.5585



10.1236, 0.1828, 0.0785

# 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.



78.5945, 0.3483, 0.2092



78.5945, 0.3516, 0.5585



78.5945, 0.1612, 0.1613

# Square

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



78.5945, 0.3516, 0.5585



78.5945, 0.1265, 0.2490



78.5945, 0.2341, 0.1714



78.5945, 0.5433, 0.3405



# Rectangle

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



78.5945, 0.3516, 0.5585



78.5945, 0.1868, 0.4252



78.5945, 0.2341, 0.1714



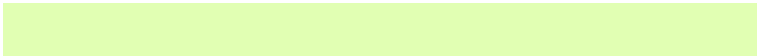
78.5945, 0.4343, 0.2474

# Sweetspot

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



78.5888, 0.3516, 0.5585



90.7481, 0.3379, 0.4096



30.3196, 0.5749, 0.3807



19.1910, 0.3412, 0.4217



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.



78.5888, 0.3516, 0.5585



78.4600, 0.3510, 0.5595



71.8422, 0.3026, 0.5973



20.7134, 0.3208, 0.3529



41.0860, 0.3521, 0.5587



4.0637, 0.3596, 0.5527



# Inverse Universe

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



10.1236, 0.1828, 0.0785



9.9459, 0.1815, 0.0774



23.3944, 0.2915, 0.1382



17.7262, 0.3040, 0.3049



5.2772, 0.1832, 0.0783

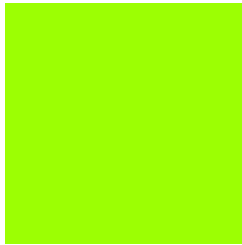


0.5749, 0.1957, 0.0852



# Previews

## White Background



This preview shows how the Yxy color 78.5945, 0.3516, 0.5585 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

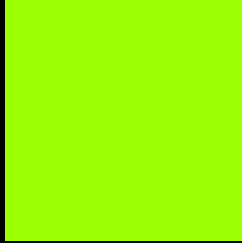
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 78.5945, 0.3516, 0.5585 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

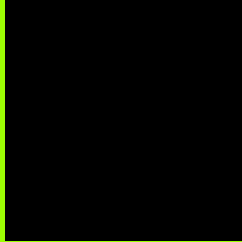
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

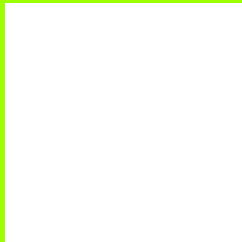
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 78.5945, 0.3516, 0.5585**

## **Background**



This preview shows how black text looks on a background with the Yxy color 78.5945, 0.3516, 0.5585.

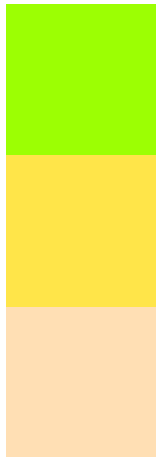


This preview shows how white text looks on a background with the Yxy color 78.5945, 0.3516, 0.5585.

# 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

78.5945, 0.3516, 0.5585

### Protanopia

77.7797, 0.4249, 0.4690

### Deuteranopia

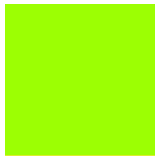
77.3306, 0.3660, 0.3730



## Tritanopia

78.2275, 0.2712, 0.3093

# Trichromacy



## Original Color

78.5945, 0.3516, 0.5585



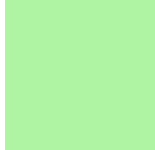
## Protanomaly

76.4225, 0.3992, 0.5057



## Deuteranomaly

75.7377, 0.3747, 0.4571



## Tritanomaly

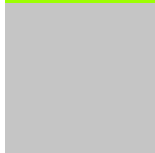
76.4597, 0.3155, 0.4259

# Monochromacy



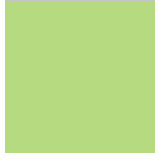
## Original Color

78.5945, 0.3516, 0.5585



## Achromatopsia

55.8340, 0.3127, 0.3290



## Achromatomaly

61.6202, 0.3461, 0.4425

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 78.5945, 0.3516, 0.5585 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(156, 255, 3)` looks like.

```
.text, #text, p{  
    color:rgb(156, 255, 3)  
}
```

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(156, 255, 3) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(156, 255, 3) }
```

## Border

The CSS property to change the border of an element to Yxy 78.5945, 0.3516, 0.5585 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(156, 255, 3) }
```

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

```
.border{ border-color:rgb(156, 255, 3) }
```

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

Here you see how a box with a 4 pixel `rgb(156, 255, 3)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(156, 255, 3); -webkit-box-  
shadow:4px 4px 4px 4px rgb(156, 255,  
box-shadow:4px 4px 4px 4px rgb(156, 255,  
3) }
```



# Background

The CSS property to change the background color of an element to Yxy 78.5945, 0.3516, 0.5585 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(156, 255, 3) }
```

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

```
.background{ background-color: rgb(156,  
255, 3) }
```

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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