

# Converting Colors

$Y_{xy}(69.3943, 0.3595, 0.5527)$

Have a look what the booklet for  
Yxy(69.3943, 0.3595, 0.5527)  
contains.

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**Color**

**Yxy(69.5893, 0.3595, 0.5527)**

# Conversions

## Conversions Part 1

Format	Color
Hex	9EF000
RGB	158, 240, 0
RGB Percent	62%, 94%, 0%
CMY	0.3803, 0.0588, 0.9987
CMYK	0.34, 0.00, 1.00, 0.06
HSL	81°, 100%, 47%
HSV	81°, 100%, 94%
XYZ	45.2639, 69.5893, 11.0547
YIQ	188.1220, 28.1680, -92.0240

# Conversions

## Conversions Part 2

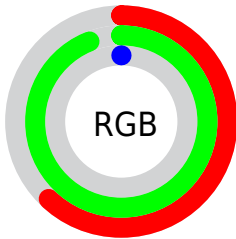
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 240, 82
Decimal	10416128
CIELab	86.80, -52.62, 83.93
CIELCh	87, 99.064, 122.087
Yxy	69.5893, 0.3595, 0.5527
Android (android.graphics.Color)	4288606208 (0xFF9EF000)
YUV	188.1220, -92.7441, -26.4170
Hunter-Lab	83.4202, -49.1311, 50.5371

# Details

The Yxy color **69.5893, 0.3595, 0.5527** is a dark color, and the websafe version is hex **99FF33**. The color can be described as middle saturated chartreuse. A complement of this color would be **8.1063, 0.1744, 0.0735**, and the grayscale version is **50.9125, 0.3127, 0.3290**.

A 20% lighter version of the original color is **87.1808, 0.3761, 0.4927**, and **36.4636, 0.3416, 0.5670** is the 20% darker color. If you saturate the color by 10%, you get **69.5804, 0.3594, 0.5528**, and if you desaturate by 10%, it is **70.5196, 0.3633, 0.5440**.

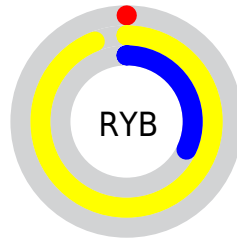
# Distribution



Red (62%)

Green (94%)

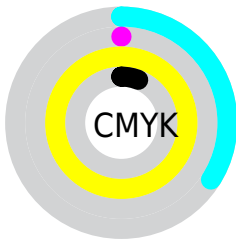
Blue (0%)



Red (0%)

Yellow (94%)

Blue (32%)

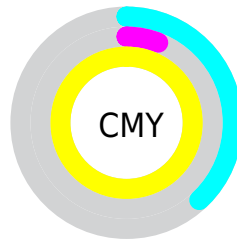


Cyan (34%)

Magenta (0%)

Yellow (100%)

Black (6%)



Cyan (38%)

Magenta (6%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 69.5893, 0.3595, 0.5527 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 69.5893, 0.3595, 0.5527 by changing the saturation by 10% instead.




 69.5893, 0.3595,  
0.5527

 69.5893, 0.3595,  
0.5527


459.1066, 0.3493,  
0.4473

 51.1918, 0.3579,  
0.5749


 118.6229, 0.3590,  
0.5172


 36.3613, 0.3537,  
0.6006

 150.0277, 0.3579,  
0.5029

 24.7133, 0.3452,  
0.6299


 186.5372, 0.3566,  
0.4905

 15.8636, 0.3319,  
0.6681

 228.5356, 0.3551,  
0.4797

 9.4277, 0.3016,  
0.6984

 276.4073, 0.3536,  
0.4701

 5.0212, 0.2576,  
0.7424

 330.5368, 0.3522,

 2.2597, 0.1760,

0.4616

0.8240

391.3085, 0.3507,  
0.4540

0.7523, 0.0000,  
1.0000

0.0000, 0.0000,  
0.0000

69.5893, 0.3595,  
0.5527

69.5893, 0.3595,  
0.5527

69.5804, 0.3594,  
0.5528

70.5196, 0.3633,  
0.5440

71.5858, 0.3651,  
0.5307

72.8169, 0.3644,  
0.5124

74.2290, 0.3612,  
0.4898

■ 75.8359, 0.3558,  
0.4640

■ 77.6495, 0.3486,  
0.4364

■ 79.6807, 0.3403,  
0.4082

■ 81.9396, 0.3313,  
0.3804

■ 84.4354, 0.3219,  
0.3537

# Harmonies

## Analogous

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



69.5893, 0.4589, 0.4948



69.5893, 0.3595, 0.5527



69.5893, 0.2545, 0.5183

# Triad

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



69.5893, 0.3595, 0.5527



69.5893, 0.1284, 0.1882



69.5893, 0.4624, 0.2657

# Complementary

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



69.5893, 0.3595, 0.5527



8.1063, 0.1744, 0.0735

# 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.



69.5893, 0.3387, 0.2075



69.5893, 0.3595, 0.5527



69.5893, 0.1598, 0.1640

# Square

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



69.5893, 0.3595, 0.5527



69.5893, 0.1304, 0.2576



69.5893, 0.2289, 0.1720



69.5893, 0.5371, 0.3358



# Rectangle

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



69.5893, 0.3595, 0.5527



69.5893, 0.1946, 0.4339



69.5893, 0.2289, 0.1720



69.5893, 0.4233, 0.2444

# Sweetspot

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



69.5924, 0.3595, 0.5527



91.3847, 0.3405, 0.4089



24.2953, 0.5903, 0.3694



19.3429, 0.3441, 0.4208



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.



69.5924, 0.3595, 0.5527



79.8196, 0.3593, 0.5529



62.7785, 0.3045, 0.5964



18.1726, 0.3215, 0.3527



38.1651, 0.3604, 0.5521



3.2297, 0.3682, 0.5458



# Inverse Universe

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



8.1063, 0.1744, 0.0735



9.2573, 0.1739, 0.0732



18.5854, 0.2785, 0.1308



15.4915, 0.3033, 0.3050



4.4943, 0.1758, 0.0742

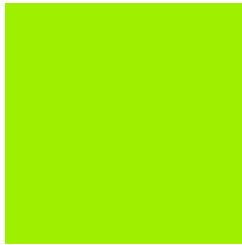


0.4269, 0.1901, 0.0821



# Previews

## White Background



This preview shows how the Yxy color 69.5893, 0.3595, 0.5527 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

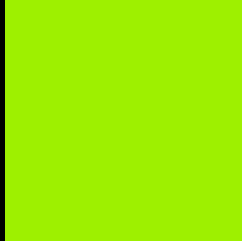
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 69.5893, 0.3595, 0.5527 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

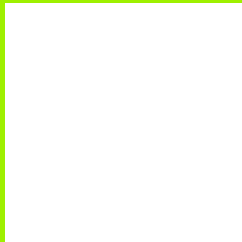
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 69.5893, 0.3595, 0.5527**

## Background



This preview shows how black text looks on a background with the Yxy color 69.5893, 0.3595, 0.5527.



This preview shows how white text looks on a background with the Yxy color 69.5893, 0.3595, 0.5527.

# 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

69.5893, 0.3595, 0.5527

### Protanopia

68.8588, 0.4406, 0.4884

### Deuteranopia

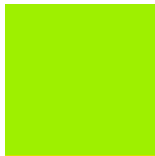
68.6385, 0.4027, 0.4036



## Tritanopia

69.1935, 0.2755, 0.3085

# Trichromacy



## Original Color

69.5893, 0.3595, 0.5527



## Protanomaly

67.9966, 0.4099, 0.5127



## Deuteranomaly

67.0902, 0.3977, 0.4695



## Tritanomaly

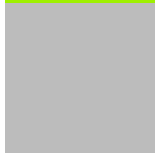
67.3372, 0.3222, 0.4235

# Monochromacy



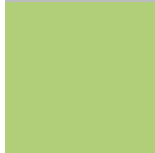
## Original Color

69.5893, 0.3595, 0.5527



## Achromatopsia

50.2886, 0.3127, 0.3290



## Achromatomaly

55.3288, 0.3498, 0.4416

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 69.5893, 0.3595, 0.5527 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(158, 240, 0)` looks like.

```
.text, #text, p{  
    color:rgb(158, 240, 0)  
}
```

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(158, 240, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(158, 240, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 69.5893, 0.3595, 0.5527 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(158, 240, 0) }
```

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

```
.border{ border-color:rgb(158, 240, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(158, 240, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(158, 240, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(158, 240, 0);  
box-shadow:4px 4px 4px 4px rgb(158, 240,  
0) }
```



# Background

The CSS property to change the background color of an element to Yxy 69.5893, 0.3595, 0.5527 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(158, 240, 0) }
```

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

```
.background{ background-color: rgb(158,  
240, 0) }
```

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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