

# Converting Colors

$Yxy(71.9964, 0.2998, 0.5872)$

Have a look what the booklet for  
Yxy(71.9964, 0.2998, 0.5872)  
contains.

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**Color**

**Yxy(71.9898, 0.2997, 0.5871)**

# Conversions

## Conversions Part 1

Format	Color
Hex	21FF27
RGB	33, 255, 39
RGB Percent	13%, 100%, 15%
CMY	0.8714, 0.0000, 0.8469
CMYK	0.87, 0.00, 0.85, 0.00
HSL	122°, 100%, 56%
HSV	122°, 87%, 100%
XYZ	36.7490, 71.9898, 13.8805
YIQ	163.9980, -62.9760, -114.2400

# Conversions

## Conversions Part 2

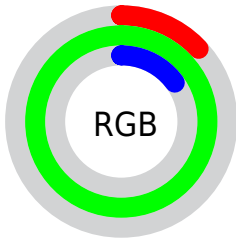
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	33, 249, 255
Decimal	2228007
CIE <sub>Lab</sub>	87.96, -83.86, 78.59
CIE <sub>LCh</sub>	88, 114.933, 136.859
Yxy	71.9898, 0.2997, 0.5871
Android (android.graphics.Color)	4280418087 (0xFF21FF27)
YUV	163.9980, -61.6240, -114.8852
Hunter-Lab	84.8468, -71.1696, 49.6932

# Details

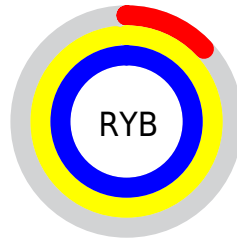
The Yxy color **71.9898, 0.2997, 0.5871** is a dark color, and the websafe version is hex **00FF33**. The color can be described as dark washed green. A complement of this color would be **29.1610, 0.3270, 0.1620**, and the grayscale version is **37.4169, 0.3127, 0.3290**.

A 20% lighter version of the original color is **76.9962, 0.3131, 0.5134**, and **39.4799, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **71.5995, 0.2997, 0.5972**, and if you desaturate by 10%, it is **72.7967, 0.3001, 0.5683**.

# Distribution



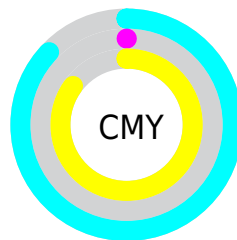
- Red (13%)
- Green (100%)
- Blue (15%)



- Red (13%)
- Yellow (98%)
- Blue (100%)



- Cyan (87%)
- Magenta (0%)
- Yellow (85%)
- Black (0%)




- Cyan (87%)
- Magenta (0%)
- Yellow (85%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 71.9898, 0.2997, 0.5871 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 71.9898, 0.2997, 0.5871 by changing the saturation by 10% instead.





 71.9898, 0.2997,  
0.5871


 71.9898, 0.2997,  
0.5871


467.5061, 0.3176,  
0.4588


 53.1503, 0.2921,  
0.6163


 122.0420, 0.3087,  
0.5421


 37.9228, 0.2808,  
0.6515

 154.0236, 0.3114,  
0.5246

 25.9228, 0.2638,  
0.6935


 191.1546, 0.3133,  
0.5096

 16.7659, 0.2394,  
0.7478

 233.8196, 0.3147,  
0.4966

 10.0677, 0.1991,  
0.8009

 282.4028, 0.3158,  
0.4853

 5.4439, 0.1414,  
0.8586

337.2887, 0.3166,

 2.5100, 0.0000,

0.4754

1.0000

398.8617, 0.3171,  
0.4666

■ 0.8816, 0.0000,  
1.0000

■ 0.0000, 0.0000,  
0.0000

■ 71.9898, 0.2997,  
0.5871

■ 71.9898, 0.2997,  
0.5871

■ 71.5995, 0.2997,  
0.5972

■ 72.7967, 0.3001,  
0.5683


■ 71.5357, 0.2997,  
0.5988


■ 74.1103, 0.3011,  
0.5418

■ 75.9913, 0.3025,  
0.5096

■ 78.4943, 0.3042,  
0.4745

 81.6673, 0.3061,  
0.4391

 85.5537, 0.3080,  
0.4053

 90.1932, 0.3098,  
0.3743

 95.6225, 0.3116,  
0.3466

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.



71.9898, 0.4149, 0.5505



71.9898, 0.2997, 0.5871



71.9898, 0.1930, 0.4808

# Triad

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



71.9898, 0.2997, 0.5871



71.9898, 0.1229, 0.1548



71.9898, 0.5363, 0.2921

# Complementary

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



71.9898, 0.2997, 0.5871



29.1610, 0.3270, 0.1620

# 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.



71.9898, 0.4129, 0.2226



71.9898, 0.2997, 0.5871



71.9898, 0.1745, 0.1481

# Square

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



71.9898, 0.2997, 0.5871



71.9898, 0.1071, 0.2009



71.9898, 0.2727, 0.1715



71.9898, 0.5700, 0.3694



# Rectangle

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



71.9898, 0.2997, 0.5871



71.9898, 0.1430, 0.3633



71.9898, 0.2727, 0.1715



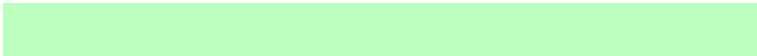
71.9898, 0.5027, 0.2678

# Sweetspot

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



71.9868, 0.2997, 0.5871



86.0429, 0.3082, 0.4016



92.1931, 0.4141, 0.5029



18.1044, 0.3075, 0.4130



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.



71.9868, 0.2997, 0.5871



71.5357, 0.2997, 0.5988



73.9656, 0.2680, 0.4754



20.1764, 0.3112, 0.3529



37.3825, 0.2995, 0.5983



3.6426, 0.2984, 0.5942



# Inverse Universe

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



29.1610, 0.3270, 0.1620



28.0271, 0.3282, 0.1582



24.2358, 0.4754, 0.2476



18.2910, 0.3142, 0.3062



14.6487, 0.3281, 0.1581

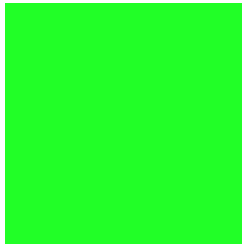


1.4290, 0.3272, 0.1576



# Previews

## White Background



This preview shows how the Yxy color 71.9898, 0.2997, 0.5871 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

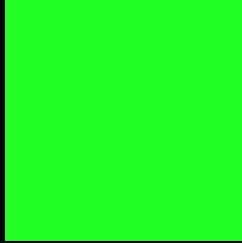
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 71.9898, 0.2997, 0.5871 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

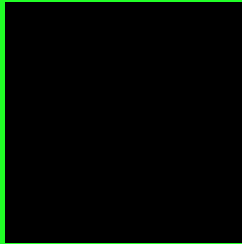
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

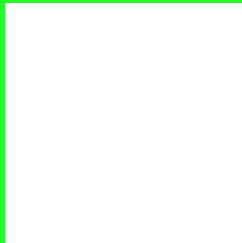
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 71.9898, 0.2997, 0.5871**

## **Background**



This preview shows how black text looks on a background with the Yxy color 71.9898, 0.2997, 0.5871.

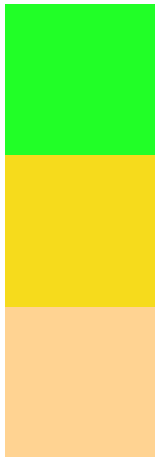


This preview shows how white text looks on a background with the Yxy color 71.9898, 0.2997, 0.5871.

# 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

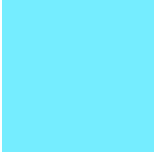
71.9898, 0.2997, 0.5871

### Protanopia

70.3397, 0.4376, 0.4844

### Deuteranopia

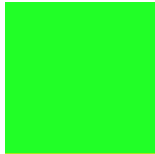
69.9239, 0.3947, 0.3958



## **Tritanopia**

71.5703, 0.2392, 0.3075

# Trichromacy



## Original Color

71.9898, 0.2997, 0.5871



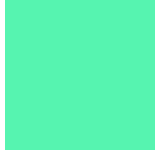
## Protanomaly

66.1423, 0.3675, 0.5371



## Deuteranomaly

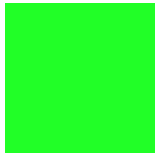
64.9984, 0.3485, 0.4761



## Tritanomaly

69.8144, 0.2651, 0.4204

# Monochromacy



## Original Color

71.9898, 0.2997, 0.5871



## Achromatopsia

37.1238, 0.3127, 0.3290



## Achromatomaly

44.9774, 0.3050, 0.4498

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 71.9898, 0.2997, 0.5871 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(33, 255, 39)` looks like.

```
.text, #text, p{  
    color:rgb(33, 255, 39)  
}
```

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(33, 255, 39) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(33, 255, 39) }
```

## Border

The CSS property to change the border of an element to Yxy 71.9898, 0.2997, 0.5871 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(33, 255, 39) }
```

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

```
.border{ border-color:rgb(33, 255, 39) }
```

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

Here you see how a box with a 4 pixel rgb(33, 255, 39) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(33, 255, 39); -webkit-box-  
shadow:4px 4px 4px 4px rgb(33, 255, 39);  
box-shadow:4px 4px 4px 4px rgb(33, 255,  
39) }
```



# Background

The CSS property to change the background color of an element to Yxy 71.9898, 0.2997, 0.5871 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(33, 255, 39) }
```

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

```
.background{ background-color: rgb(33, 255,  
39) }
```

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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