

# Converting Colors

$Y_{xy}(71.5722, 0.2989, 0.5959)$

Have a look what the booklet for  
Yxy(71.5722, 0.2989, 0.5959)  
contains.

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# Color

**Yxy(71.5806, 0.2989, 0.5959)**

# Conversions

## Conversions Part 1

Format	Color
Hex	01FF15
RGB	1, 255, 21
RGB Percent	0%, 100%, 8%
CMY	0.9977, 0.0000, 0.9173
CMYK	1.00, 0.00, 0.92, 0.00
HSL	125°, 100%, 50%
HSV	125°, 100%, 100%
XYZ	35.9044, 71.5806, 12.6368
YIQ	152.3780, -76.2700, -126.6220

# Conversions

## Conversions Part 2

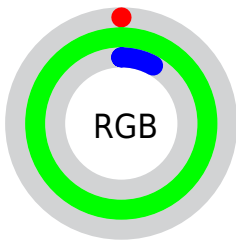
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	1, 236, 255
Decimal	130837
CIE Lab	87.77, -85.83, 81.35
CIE LCh	88, 118.254, 136.533
Yxy	71.5806, 0.2989, 0.5959
Android (android.graphics.Color)	4278320917 (0xFF01FF15)
YUV	152.3780, -64.7694, -132.7585
Hunter-Lab	84.6053, -72.3083, 50.3681

# Details

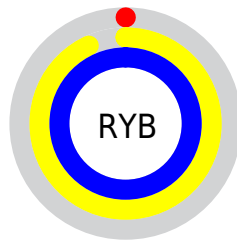
The Yxy color **71.5806, 0.2989, 0.5959** is a dark color, and the websafe version is hex **00FF00**. The color can be described as dark saturated green. A complement of this color would be **27.2409, 0.3427, 0.1662**, and the grayscale version is **31.8282, 0.3127, 0.3290**.

A 20% lighter version of the original color is **76.3949, 0.3131, 0.5233**, and **39.4799, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **71.5725, 0.2989, 0.5961**, and if you desaturate by 10%, it is **71.9265, 0.2981, 0.5849**.

# Distribution



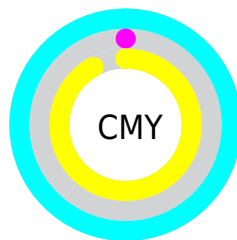
- Red (0%)
- Green (100%)
- Blue (8%)



- Red (0%)
- Yellow (93%)
- Blue (100%)



- Cyan (100%)
- Magenta (0%)
- Yellow (92%)
- Black (0%)




- Cyan (100%)
- Magenta (0%)
- Yellow (92%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 71.5806, 0.2989, 0.5959 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 71.5806, 0.2989, 0.5959 by changing the saturation by 10% instead.



 71.5806, 0.2989,  
0.5959


 71.5806, 0.2989,  
0.5959


466.0805, 0.3181,  
0.4634

 52.8161, 0.2907,  
0.6258


 121.4601, 0.3086,  
0.5496


 37.6560, 0.2785,  
0.6615


 153.3439, 0.3115,  
0.5315

 25.7158, 0.2603,  
0.7038


 190.3696, 0.3136,  
0.5160

 16.6112, 0.2354,  
0.7614

 232.9216, 0.3151,  
0.5026

 9.9577, 0.1918,  
0.8082

 281.3843, 0.3163,  
0.4909

 5.3709, 0.1334,  
0.8666

 336.1421, 0.3171,

 2.4665, 0.0000,

0.4806

1.0000

397.5794, 0.3177,  
0.4715

■ 0.8598, 0.0000,  
1.0000

■ 0.0000, 0.0000,  
0.0000

■ 71.5806, 0.2989,  
0.5959

■ 71.5806, 0.2989,  
0.5959


■ 71.5725, 0.2989,  
0.5961

■ 71.9265, 0.2981,  
0.5849


■ 72.6559, 0.2976,  
0.5662

■ 73.8635, 0.2980,  
0.5403


■ 75.6132, 0.2991,  
0.5094

 77.9589, 0.3008,  
0.4758

 80.9482, 0.3029,  
0.4418

 84.6237, 0.3054,  
0.4092

 89.0243, 0.3079,  
0.3792

 94.1863, 0.3104,  
0.3522

# Harmonies

## Analogous

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



71.5806, 0.4164, 0.5540



71.5806, 0.2989, 0.5959



71.5806, 0.1902, 0.4880

# Triad

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



71.5806, 0.2989, 0.5959



71.5806, 0.1188, 0.1512



71.5806, 0.5418, 0.2895

# Complementary

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



71.5806, 0.2989, 0.5959



27.2409, 0.3427, 0.1662

# 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.



71.5806, 0.4140, 0.2192



71.5806, 0.2989, 0.5959



71.5806, 0.1705, 0.1443

# Square

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



71.5806, 0.2989, 0.5959



71.5806, 0.1031, 0.1981



71.5806, 0.2700, 0.1678



71.5806, 0.5764, 0.3673



# Rectangle

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



71.5806, 0.2989, 0.5959



71.5806, 0.1393, 0.3657



71.5806, 0.2700, 0.1678



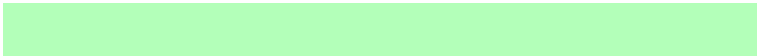
71.5806, 0.5069, 0.2649

# Sweetspot

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



71.5782, 0.2989, 0.5959



84.5330, 0.3053, 0.4099



89.7050, 0.4075, 0.5146



17.7449, 0.3043, 0.4234



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.



71.5782, 0.2989, 0.5959



71.5725, 0.2989, 0.5961



73.5603, 0.2668, 0.4803



20.1919, 0.3105, 0.3516



37.4064, 0.2986, 0.5949



3.6499, 0.2955, 0.5838



# Inverse Universe

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



27.2409, 0.3427, 0.1662



27.2257, 0.3427, 0.1662



22.4163, 0.5281, 0.2684



18.2736, 0.3150, 0.3074



14.2366, 0.3423, 0.1659

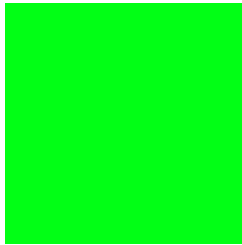


1.3934, 0.3396, 0.1644



# Previews

## White Background



This preview shows how the Yxy color 71.5806, 0.2989, 0.5959 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

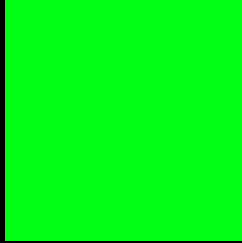
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 71.5806, 0.2989, 0.5959 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

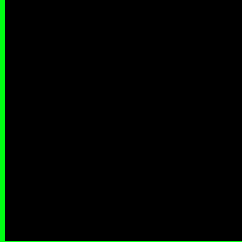
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

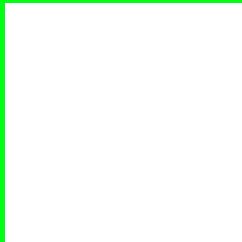
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 71.5806, 0.2989, 0.5959**

## Background



This preview shows how black text looks on a background with the Yxy color 71.5806, 0.2989, 0.5959.



This preview shows how white text looks on a background with the Yxy color 71.5806, 0.2989, 0.5959.

# 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

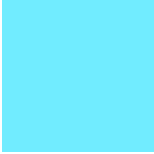
71.5806, 0.2989, 0.5959

### Protanopia

69.7356, 0.4413, 0.4878

### Deuteranopia

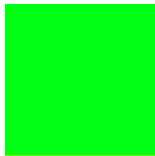
69.8317, 0.3968, 0.3987



## **Tritanopia**

70.7216, 0.2375, 0.3062

# Trichromacy



## Original Color

71.5806, 0.2989, 0.5959



## Protanomaly

64.3375, 0.3626, 0.5486



## Deuteranomaly

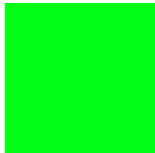
63.5204, 0.3436, 0.4892



## Tritanomaly

68.3812, 0.2634, 0.4291

# Monochromacy



## Original Color

71.5806, 0.2989, 0.5959



## Achromatopsia

31.3989, 0.3127, 0.3290



## Achromatomaly

39.9361, 0.3014, 0.4697

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 71.5806, 0.2989, 0.5959 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(1, 255, 21)` looks like.

```
.text, #text, p{  
    color:rgb(1, 255, 21)  
}
```

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(1, 255, 21) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(1, 255, 21) }
```

## Border

The CSS property to change the border of an element to Yxy 71.5806, 0.2989, 0.5959 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(1, 255, 21) }
```

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

```
.border{ border-color:rgb(1, 255, 21) }
```

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

Here you see how a box with a 4 pixel `rgb(1, 255, 21)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(1, 255, 21); -webkit-box-  
shadow:4px 4px 4px 4px rgb(1, 255, 21);  
box-shadow:4px 4px 4px 4px rgb(1, 255, 21)  
}
```



# Background

The CSS property to change the background color of an element to Yxy 71.5806, 0.2989, 0.5959 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(1, 255, 21) }
```

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

```
.background{ background-color: rgb(1, 255,  
21) }
```

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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