

# Converting Colors

$Y_{xy}(72.4728, 0.2824, 0.5365)$

Have a look what the booklet for  
Yxy(72.4728, 0.2824, 0.5365)  
contains.

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# Color

**Yxy(72.4858, 0.2823, 0.5361)**

# Conversions

## Conversions Part 1

Format	Color
Hex	01FF66
RGB	1, 255, 102
RGB Percent	0%, 100%, 40%
CMY	0.9968, 0.0000, 0.5999
CMYK	1.00, 0.00, 0.60, 0.00
HSL	144°, 100%, 50%
HSV	144°, 100%, 100%
XYZ	38.1696, 72.4858, 24.5540
YIQ	161.6120, -102.2710, -101.4310

# Conversions

## Conversions Part 2

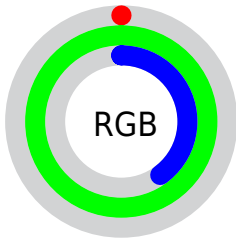
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	1, 183, 255
Decimal	130918
CIE <sub>Lab</sub>	88.20, -80.26, 57.92
CIE <sub>LCh</sub>	88, 98.975, 144.181
Yxy	72.4858, 0.2823, 0.5361
Android (android.graphics.Color)	4278320998 (0xFF01FF66)
YUV	161.6120, -29.3887, -140.8567
Hunter-Lab	85.1386, -68.9668, 42.4977

# Details

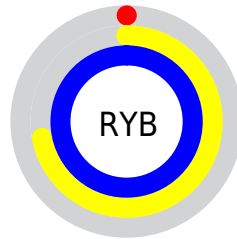
The Yxy color **72.4858, 0.2823, 0.5361** is a dark color, and the websafe version is hex **00FF66**. The color can be described as dark saturated spring green. A complement of this color would be **23.6039, 0.4559, 0.2287**, and the grayscale version is **36.0895, 0.3127, 0.3290**.

A 20% lighter version of the original color is **77.7362, 0.2872, 0.4540**, and **39.6771, 0.2929, 0.5743** is the 20% darker color. If you saturate the color by 10%, you get **72.4700, 0.2824, 0.5367**, and if you desaturate by 10%, it is **73.0368, 0.2788, 0.5164**.

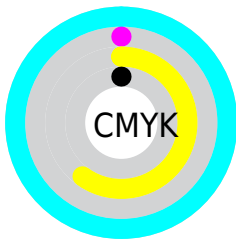
# Distribution



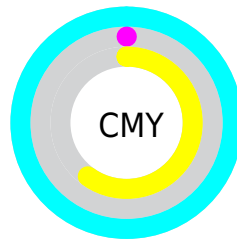
- Red (0%)
- Green (100%)
- Blue (40%)



- Red (0%)
- Yellow (72%)
- Blue (100%)



- Cyan (100%)
- Magenta (0%)
- Yellow (60%)
- Black (0%)




- Cyan (100%)
- Magenta (0%)
- Yellow (60%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 72.4858, 0.2823, 0.5361 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 72.4858, 0.2823, 0.5361 by changing the saturation by 10% instead.





 72.4858, 0.2823,  
0.5361

 72.4858, 0.2823,  
0.5361


469.2307, 0.3030,  
0.4313


 53.5556, 0.2757,  
0.5615


 122.7470, 0.2910,  
0.4984


 38.2465, 0.2664,  
0.5933


 154.8467, 0.2939,  
0.4840


 26.1741, 0.2532,  
0.6337

 192.1051, 0.2962,  
0.4719

 16.9539, 0.2333,  
0.6858

 234.9066, 0.2981,  
0.4615

 10.2016, 0.2032,  
0.7557

 283.6355, 0.2997,  
0.4524

 5.5328, 0.1556,  
0.8444


338.6762, 0.3010,

 2.5632, 0.0000,


0.4445


1.0000


400.4132, 0.3021,  
0.4375


 0.9082, 0.0000,  
1.0000


 0.0000, 0.0000,  
0.0000


 72.4858, 0.2823,  
0.5361


 72.4858, 0.2823,  
0.5361


 72.4700, 0.2824,  
0.5367


 73.0368, 0.2788,  
0.5164


 73.9307, 0.2768,  
0.4946

 75.2509, 0.2768,  
0.4712

 77.0516, 0.2786,  
0.4474

 79.3784, 0.2821,  
0.4239

 82.2714, 0.2869,  
0.4014

 85.7669, 0.2927,  
0.3804

 89.8978, 0.2992,  
0.3612

 94.6947, 0.3060,  
0.3439

# Harmonies

## Analogous

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



72.4858, 0.3869, 0.5406



72.4858, 0.2823, 0.5361



72.4858, 0.1910, 0.4222

# Triad

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



72.4858, 0.2823, 0.5361



72.4858, 0.1498, 0.1687



72.4858, 0.5224, 0.3172

# Complementary

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



72.4858, 0.2823, 0.5361



23.6039, 0.4559, 0.2287

# 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.



72.4858, 0.4302, 0.2497



72.4858, 0.2823, 0.5361



72.4858, 0.2079, 0.1688

# Square

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



72.4858, 0.2823, 0.5361



72.4858, 0.1275, 0.2030



72.4858, 0.3067, 0.1971



72.4858, 0.5359, 0.3918



# Rectangle

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



72.4858, 0.2823, 0.5361



72.4858, 0.1513, 0.3274



72.4858, 0.3067, 0.1971



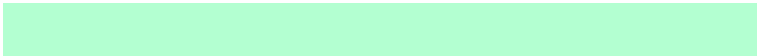
72.4858, 0.4992, 0.2938

# Sweetspot

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



72.4850, 0.2823, 0.5361



85.6457, 0.2925, 0.3811



78.7465, 0.3527, 0.5580



18.0019, 0.2900, 0.3897



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.



72.4850, 0.2823, 0.5361



72.4700, 0.2824, 0.5367



76.9803, 0.2351, 0.3664



20.2880, 0.3061, 0.3436



37.8946, 0.2816, 0.5336



3.7105, 0.2753, 0.5110



# Inverse Universe

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



23.6039, 0.4559, 0.2287



23.5754, 0.4565, 0.2289



21.3738, 0.6280, 0.3235



18.1707, 0.3199, 0.3148



12.3490, 0.4537, 0.2273

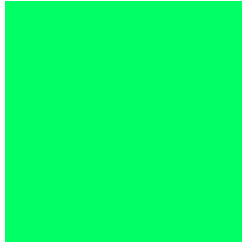


1.2239, 0.4343, 0.2166



# Previews

## White Background



This preview shows how the Yxy color 72.4858, 0.2823, 0.5361 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 72.4858, 0.2823, 0.5361 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 72.4858, 0.2823, 0.5361**

## **Background**



This preview shows how black text looks on a background with the Yxy color 72.4858, 0.2823, 0.5361.

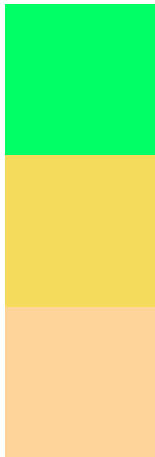


This preview shows how white text looks on a background with the Yxy color 72.4858, 0.2823, 0.5361.

# 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

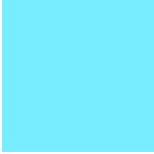
72.4858, 0.2823, 0.5361

### Protanopia

70.6515, 0.4155, 0.4549

### Deuteranopia

70.7135, 0.3877, 0.3878



## Tritanopia

71.7103, 0.2399, 0.3076

# Trichromacy



## Original Color

72.4858, 0.2823, 0.5361



## Protanomaly

65.6074, 0.3397, 0.4994



## Deuteranomaly

65.0509, 0.3246, 0.4465



## Tritanomaly

70.3614, 0.2519, 0.3883

# Monochromacy



## Original Color

72.4858, 0.2823, 0.5361



## Achromatopsia

36.1307, 0.3127, 0.3290



## Achromatomaly

44.2569, 0.2834, 0.4172

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 72.4858, 0.2823, 0.5361 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, 102)` looks like.

```
.text, #text, p{  
    color:rgb(1, 255, 102)  
}
```

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, 102) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(1, 255, 102) }
```

## Border

The CSS property to change the border of an element to Yxy 72.4858, 0.2823, 0.5361 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, 102) }
```

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

```
.border{ border-color:rgb(1, 255, 102) }
```

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, 102)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(1, 255, 102); -webkit-box-  
shadow:4px 4px 4px 4px rgb(1, 255, 102);  
box-shadow:4px 4px 4px 4px rgb(1, 255,  
102) }
```



# Background

The CSS property to change the background color of an element to Yxy 72.4858, 0.2823, 0.5361 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, 102) }
```

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

```
.background{ background-color: rgb(1, 255,  
102) }
```

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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