

# Converting Colors

$Y_{xy}(68.6089, 0.2830, 0.5390)$

Have a look what the booklet for  
Yxy(68.6089, 0.2830, 0.5390)  
contains.

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# Color

**Yxy(68.6144, 0.2831, 0.5390)**

# Conversions

## Conversions Part 1

| Format      | Color                        |
|-------------|------------------------------|
| Hex         | 01F961                       |
| RGB         | 1, 249, 97                   |
| RGB Percent | 0%, 98%, 38%                 |
| CMY         | 0.9973, 0.0235, 0.6197       |
| CMYK        | 1.00, 0.00, 0.61, 0.02       |
| HSL         | 143°, 99%, 49%               |
| HSV         | 143°, 100%, 98%              |
| XYZ         | 36.0385, 68.6144, 22.6466    |
| YIQ         | 157.5200, -99.0160, -99.8480 |

# Conversions

## Conversions Part 2

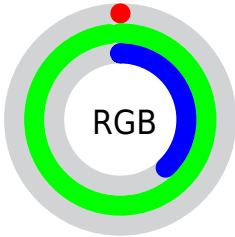
| <b>Format</b>                       | <b>Color</b>                     |
|-------------------------------------|----------------------------------|
| <b>RYB</b>                          | 1, 180, 249                      |
| Decimal                             | 129377                           |
| CIELab                              | 86.31, -79.11, 57.90             |
| CIELCh                              | 86, 98.037, 143.799              |
| Yxy                                 | 68.6144, 0.2831,<br>0.5390       |
| Android<br>(android.graphics.Color) | 4278319457<br>(0xFF01F961)       |
| YUV                                 | 157.5200, -29.8364,<br>-137.2680 |
| Hunter-Lab                          | 82.8338, -67.2992,<br>41.7739    |

# Details

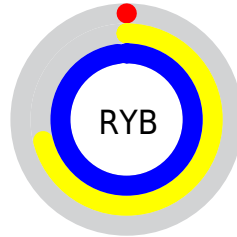
The Yxy color **68.6144, 0.2831, 0.5390** is a dark color, and the websafe version is hex **00FF66**. The color can be described as dark saturated spring green. A complement of this color would be **22.4443, 0.4515, 0.2262**, and the grayscale version is **34.0867, 0.3127, 0.3290**.

A 20% lighter version of the original color is **77.4318, 0.2886, 0.4608**, and **37.4148, 0.2941, 0.5787** is the 20% darker color. If you saturate the color by 10%, you get **68.6051, 0.2832, 0.5395**, and if you desaturate by 10%, it is **69.1391, 0.2796, 0.5193**.

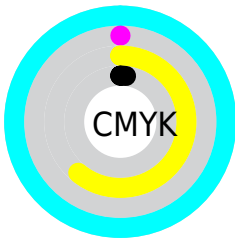
# Distribution



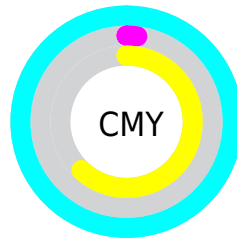
- Red (0%)
- Green (98%)
- Blue (38%)



- Red (0%)
- Yellow (71%)
- Blue (98%)



- Cyan (100%)
- Magenta (0%)
- Yellow (61%)
- Black (2%)




- Cyan (100%)
- Magenta (2%)
- Yellow (62%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 68.6144, 0.2831, 0.5390 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 68.6144, 0.2831, 0.5390 by changing the saturation by 10% instead.




 68.6144, 0.2831,  
0.5390


 68.6144, 0.2831,  
0.5390


455.6698, 0.3038,  
0.4318


 50.3977, 0.2763,  
0.5652

 117.2307, 0.2919,  
0.5002


 35.7295, 0.2667,  
0.5982


 148.3990, 0.2948,  
0.4855


 24.2254, 0.2528,  
0.6401


 184.6535, 0.2972,  
0.4731

 15.5009, 0.2317,  
0.6943


 226.3783, 0.2990,  
0.4625

 9.1717, 0.2006,  
0.7717

 273.9580, 0.3006,  
0.4532

 4.8533, 0.1472,  
0.8528


327.7768, 0.3018,

 2.1615, 0.0000,

0.4452

1.0000


388.2193, 0.3029,  
0.4381


 0.6989, 0.0000,  
1.0000


 0.0000, 0.0000,  
0.0000


 68.6144, 0.2831,  
0.5390


 68.6144, 0.2831,  
0.5390

 68.6051, 0.2832,  
0.5395


 69.1391, 0.2796,  
0.5193


 69.9850, 0.2776,  
0.4972


 71.2357, 0.2775,  
0.4736

 72.9424, 0.2793,  
0.4495

 75.1484, 0.2827,  
0.4256

 77.8915, 0.2874,  
0.4027

 81.2061, 0.2931,  
0.3814

 85.1235, 0.2994,  
0.3618

 89.6725, 0.3061,  
0.3443

# Harmonies

## Analogous

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



68.6144, 0.3883, 0.5416



68.6144, 0.2831, 0.5390



68.6144, 0.1909, 0.4249

# Triad

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



68.6144, 0.2831, 0.5390



68.6144, 0.1483, 0.1678



68.6144, 0.5234, 0.3160

# Complementary

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



68.6144, 0.2831, 0.5390



22.4443, 0.4515, 0.2262

# 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.



68.6144, 0.4296, 0.2483



68.6144, 0.2831, 0.5390



68.6144, 0.2061, 0.1676

# Square

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



68.6144, 0.2831, 0.5390



68.6144, 0.1263, 0.2028



68.6144, 0.3051, 0.1957



68.6144, 0.5378, 0.3908



# Rectangle

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



68.6144, 0.2831, 0.5390



68.6144, 0.1507, 0.3290



68.6144, 0.3051, 0.1957



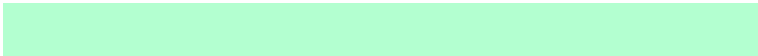
68.6144, 0.4997, 0.2925

# Sweetspot

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



68.6172, 0.2831, 0.5390



85.6065, 0.2929, 0.3820



74.6031, 0.3528, 0.5580



17.9927, 0.2904, 0.3908



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.



68.6172, 0.2831, 0.5390



72.4187, 0.2833, 0.5397



72.9234, 0.2351, 0.3663



19.4207, 0.3063, 0.3439



36.7496, 0.2824, 0.5365



3.4237, 0.2757, 0.5126



# Inverse Universe

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



22.4443, 0.4515, 0.2262



23.6642, 0.4522, 0.2265



20.2461, 0.6279, 0.3235



17.4038, 0.3198, 0.3146



12.0304, 0.4493, 0.2249

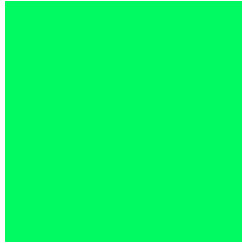


1.1350, 0.4297, 0.2141



# Previews

## White Background



This preview shows how the Yxy color 68.6144, 0.2831, 0.5390 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 68.6144, 0.2831, 0.5390 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

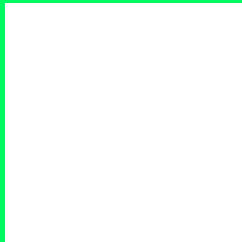
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 68.6144, 0.2831, 0.5390**

## **Background**



This preview shows how black text looks on a background with the Yxy color 68.6144, 0.2831, 0.5390.

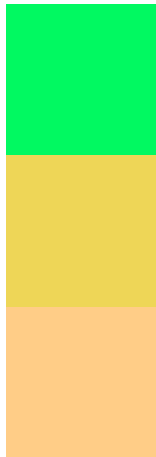


This preview shows how white text looks on a background with the Yxy color 68.6144, 0.2831, 0.5390.

# 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

68.6209, 0.2831, 0.5390

### Protanopia

66.9584, 0.4160, 0.4564

### Deuteranopia

66.6719, 0.4054, 0.4008



## Tritanopia

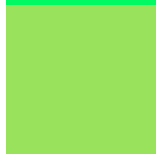
67.9588, 0.2333, 0.3057

# Trichromacy



## Original Color

68.6209, 0.2831, 0.5390



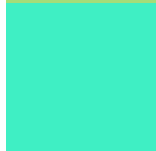
## Protanomaly

62.3689, 0.3401, 0.5014



## Deuteranomaly

60.8799, 0.3344, 0.4585



## Tritanomaly

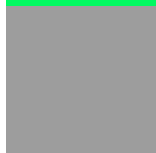
66.7753, 0.2486, 0.3871

# Monochromacy



## Original Color

68.6209, 0.2831, 0.5390



## Achromatopsia

33.7164, 0.3127, 0.3290



## Achromatomaly

41.2855, 0.2840, 0.4181

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 68.6144, 0.2831, 0.5390 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, 249, 97)` looks like.

```
.text, #text, p{  
    color:rgb(1, 249, 97)  
}
```

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, 249, 97) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(1, 249, 97) }
```

## Border

The CSS property to change the border of an element to Yxy 68.6144, 0.2831, 0.5390 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, 249, 97) }
```

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

```
.border{ border-color:rgb(1, 249, 97) }
```

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

Here you see how a box with a 4 pixel `rgb(1, 249, 97)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(1, 249, 97); -webkit-box-  
shadow:4px 4px 4px 4px rgb(1, 249, 97);  
box-shadow:4px 4px 4px 4px rgb(1, 249, 97)  
}
```



# Background

The CSS property to change the background color of an element to Yxy 68.6144, 0.2831, 0.5390 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(1, 249, 97) }
```

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

```
.background{ background-color: rgb(1, 249,  
97) }
```

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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