

# Converting Colors

$Y_{xy}(72.0455, 0.2897, 0.5630)$

Have a look what the booklet for  
Yxy(72.0455, 0.2897, 0.5630)  
contains.

<b>Yxy(72.0418, 0.2898, 0.5633)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	22
<b><i>Color Blindness Simulation</i></b> .....	25
<b><i>CSS Examples</i></b> .....	28

# Color

**Yxy(72.0418, 0.2898, 0.5633)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00FF4C
RGB	0, 255, 76
RGB Percent	0%, 100%, 30%
CMY	1.0000, 0.0000, 0.7020
CMYK	1.00, 0.00, 0.70, 0.00
HSL	138°, 100%, 50%
HSV	138°, 100%, 100%
XYZ	37.0632, 72.0418, 18.7874
YIQ	158.3490, -94.5210, -109.7290

# Conversions

## Conversions Part 2

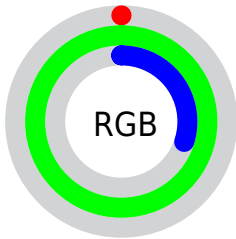
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 196, 255
Decimal	65356
CIELab	87.99, -82.94, 67.95
CIELCh	88, 107.216, 140.673
Yxy	72.0418, 0.2898, 0.5633
Android (android.graphics.Color)	4278255436 (0xFF00FF4C)
YUV	158.3490, -40.5981, -138.8721
Hunter-Lab	84.8774, -70.5904, 46.2905

# Details

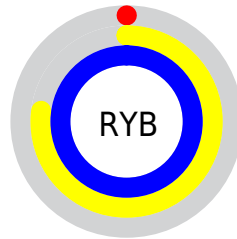
The Yxy color **72.0418, 0.2898, 0.5633** is a dark color, and the websafe version is hex **00FF33**. The color can be described as dark saturated green. A complement of this color would be **24.5149, 0.4161, 0.2066**, and the grayscale version is **34.5788, 0.3127, 0.3290**.

A 20% lighter version of the original color is **77.0650, 0.2983, 0.4844**, and **39.4799, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **72.0417, 0.2898, 0.5633**, and if you desaturate by 10%, it is **72.5394, 0.2865, 0.5443**.

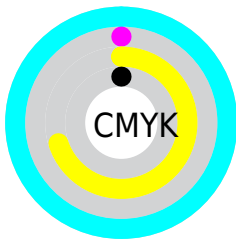
# Distribution



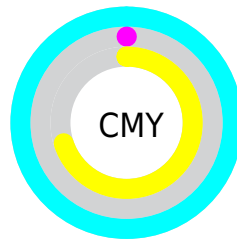
- Red (0%)
- Green (100%)
- Blue (30%)



- Red (0%)
- Yellow (77%)
- Blue (100%)



- Cyan (100%)
- Magenta (0%)
- Yellow (70%)
- Black (0%)




- Cyan (100%)
- Magenta (0%)
- Yellow (70%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 72.0418, 0.2898, 0.5633 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 72.0418, 0.2898, 0.5633 by changing the saturation by 10% instead.





 72.0418, 0.2898,  
0.5633


 72.0418, 0.2898,  
0.5633


467.6871, 0.3094,  
0.4453

 53.1928, 0.2827,  
0.5913

 122.1160, 0.2987,  
0.5212


 37.9567, 0.2725,  
0.6257


 154.1099, 0.3015,  
0.5051


 25.9491, 0.2574,  
0.6684


 191.2543, 0.3037,  
0.4913

 16.7856, 0.2344,  
0.7211

 233.9336, 0.3054,  
0.4795

 10.0817, 0.2022,  
0.7978

 282.5321, 0.3067,  
0.4693

 5.4532, 0.1447,  
0.8553


337.4343, 0.3078,

 2.5155, 0.0000,


0.4603


1.0000


399.0245, 0.3087,  
0.4523

 0.8844, 0.0000,  
1.0000


 0.0000, 0.0000,  
0.0000


 72.0418, 0.2898,  
0.5633


 72.0418, 0.2898,  
0.5633


 72.0417, 0.2898,  
0.5633

 72.5394, 0.2865,  
0.5443


 73.3891, 0.2845,  
0.5214


 74.6806, 0.2840,  
0.4957

 76.4702, 0.2853,  
0.4686

 78.8053, 0.2880,  
0.4413

 81.7278, 0.2918,  
0.4149

 85.2753, 0.2965,  
0.3901

 89.4823, 0.3017,  
0.3675

 94.3806, 0.3072,  
0.3471

# Harmonies

## Analogous

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



72.0418, 0.4002, 0.5487



72.0418, 0.2898, 0.5633



72.0418, 0.1904, 0.4493

# Triad

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



72.0418, 0.2898, 0.5633



72.0418, 0.1357, 0.1607



72.0418, 0.5317, 0.3052

# Complementary

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



72.0418, 0.2898, 0.5633



24.5149, 0.4161, 0.2066

# 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.



72.0418, 0.4241, 0.2363



72.0418, 0.2898, 0.5633



72.0418, 0.1911, 0.1577

# Square

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



72.0418, 0.2898, 0.5633



72.0418, 0.1164, 0.2005



72.0418, 0.2909, 0.1839



72.0418, 0.5539, 0.3816



# Rectangle

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



72.0418, 0.2898, 0.5633



72.0418, 0.1458, 0.3427



72.0418, 0.2909, 0.1839



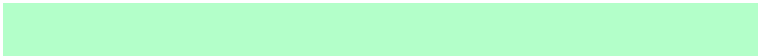
72.0418, 0.5035, 0.2812

# Sweetspot

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



72.0417, 0.2898, 0.5633



85.2753, 0.2965, 0.3901



81.5566, 0.3691, 0.5451



17.9155, 0.2945, 0.4004



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.



72.0417, 0.2898, 0.5633



75.6784, 0.2449, 0.4015



20.2572, 0.3075, 0.3461



37.6661, 0.2890, 0.5605



3.6857, 0.2828, 0.5382

# Inverse Universe

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



24.5149, 0.4161, 0.2066



21.5382, 0.6072, 0.3118



18.2027, 0.3184, 0.3125



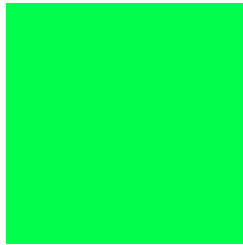
12.8371, 0.4141, 0.2055



1.2692, 0.4009, 0.1982

# Previews

## White Background



This preview shows how the Yxy color 72.0418, 0.2898, 0.5633 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 72.0418, 0.2898, 0.5633 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

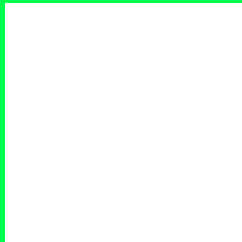
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 72.0418, 0.2898, 0.5633**

## **Background**



This preview shows how black text looks on a background with the Yxy color 72.0418, 0.2898, 0.5633.



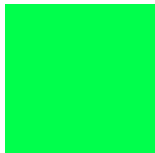
This preview shows how white text looks on a background with the Yxy color 72.0418, 0.2898, 0.5633.



# Color Blindness Simulation

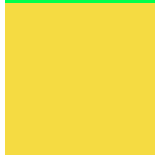
Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



### Original Color

72.0418, 0.2898, 0.5633



### Protanopia

70.4689, 0.4270, 0.4703



### Deuteranopia

70.0185, 0.3925, 0.3928



## Tritanopia

71.5014, 0.2388, 0.3075

# Trichromacy



## Original Color

72.0418, 0.2898, 0.5633



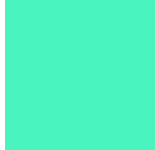
## Protanomaly

65.2233, 0.3494, 0.5219



## Deuteranomaly

64.0247, 0.3319, 0.4631



## Tritanomaly

69.8749, 0.2553, 0.4011

# Monochromacy



## Original Color

72.0418, 0.2898, 0.5633



## Achromatopsia

34.1914, 0.3127, 0.3290



## Achromatomaly

42.4651, 0.2893, 0.4337

# CSS Examples

## Text

The CSS property to change the color of the text to  $Yxy$  72.0418, 0.2898, 0.5633 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(0, 255, 76)` looks like.

```
.text, #text, p{  
    color:rgb(0, 255, 76)  
}
```

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(0, 255, 76) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 255, 76) }
```

## Border

The CSS property to change the border of an element to Yxy 72.0418, 0.2898, 0.5633 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(0, 255, 76) }
```

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

```
.border{ border-color:rgb(0, 255, 76) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 255, 76)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 255, 76); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 255, 76);  
box-shadow:4px 4px 4px 4px rgb(0, 255, 76)  
}
```

# Background

The CSS property to change the background color of an element to Yxy 72.0418, 0.2898, 0.5633 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 255, 76) }
```

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

```
.background{ background-color: rgb(0, 255,  
76) }
```

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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