

# Converting Colors

$Y_{xy}(72.9382, 0.2752, 0.5106)$

Have a look what the booklet for  
Yxy(72.9382, 0.2752, 0.5106)  
contains.

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# Color

**Yxy(72.9565, 0.2751, 0.5100)**

# Conversions

## Conversions Part 1

Format	Color
Hex	02FF7B
RGB	2, 255, 123
RGB Percent	1%, 100%, 48%
CMY	0.9932, 0.0000, 0.5177
CMYK	0.99, 0.00, 0.52, 0.00
HSL	149°, 100%, 50%
HSV	149°, 99%, 100%
XYZ	39.3536, 72.9565, 30.7419
YIQ	164.3050, -108.4160, -94.6880

# Conversions

## Conversions Part 2

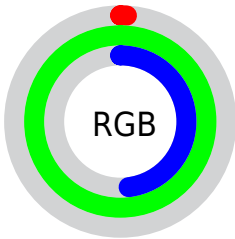
<b>Format</b>	<b>Color</b>
<b>RYB</b>	2, 173, 255
Decimal	196475
CIELab	88.43, -77.45, 48.84
CIELCh	88, 91.565, 147.765
Yxy	72.9565, 0.2751, 0.5100
Android (android.graphics.Color)	4278386555 (0xFF02FF7B)
YUV	164.3050, -20.3634, -142.3415
Hunter-Lab	85.4146, -67.2341, 38.4509

# Details

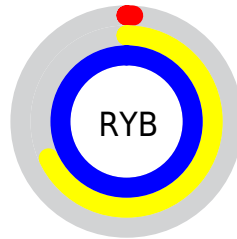
The Yxy color **72.9565, 0.2751, 0.5100** is a dark color, and the websafe version is hex **00FF66**. The color can be described as dark saturated spring green. A complement of this color would be **23.0113, 0.4894, 0.2473**, and the grayscale version is **37.3733, 0.3127, 0.3290**.

A 20% lighter version of the original color is **78.4474, 0.2771, 0.4263**, and **40.3747, 0.2850, 0.5462** is the 20% darker color. If you saturate the color by 10%, you get **72.9257, 0.2753, 0.5112**, and if you desaturate by 10%, it is **73.5402, 0.2718, 0.4914**.

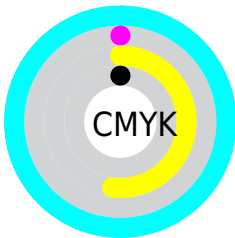
# Distribution



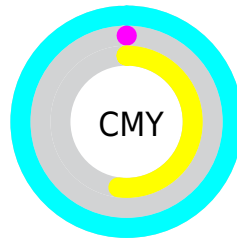
- Red (1%)
- Green (100%)
- Blue (48%)



- Red (1%)
- Yellow (68%)
- Blue (100%)



- Cyan (99%)
- Magenta (0%)
- Yellow (52%)
- Black (0%)




- Cyan (99%)
- Magenta (0%)
- Yellow (52%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 72.9565, 0.2751, 0.5100 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 72.9565, 0.2751, 0.5100 by changing the saturation by 10% instead.



 72.9565, 0.2751,  
0.5100

 72.9565, 0.2751,  
0.5100


470.8640, 0.2974,  
0.4185


 53.9404, 0.2687,  
0.5325


 123.4155, 0.2839,  
0.4769

 38.5540, 0.2600,  
0.5608


 155.6271, 0.2870,  
0.4644


 26.4130, 0.2479,  
0.5975


 193.0060, 0.2895,  
0.4538

 17.1328, 0.2302,  
0.6460

 235.9367, 0.2916,  
0.4447

 10.3292, 0.2032,  
0.7114

 284.8034, 0.2934,  
0.4368

 5.6178, 0.1669,  
0.8313


339.9906, 0.2949,

 2.6141, 0.0181,


0.4300


0.9819


401.8827, 0.2962,  
0.4239


 0.9338, 0.0000,  
1.0000


 0.0000, 0.0000,  
0.0000


 72.9565, 0.2751,  
0.5100


 72.9565, 0.2751,  
0.5100

 72.9257, 0.2753,  
0.5112


 73.5402, 0.2718,  
0.4914


 74.4564, 0.2703,  
0.4714


 75.7875, 0.2707,  
0.4508

 77.5863, 0.2732,  
0.4301

 79.8974, 0.2774,  
0.4098

 82.7599, 0.2831,  
0.3906

 86.2090, 0.2898,  
0.3727

 90.2770, 0.2972,  
0.3562

 94.9936, 0.3052,  
0.3414

# Harmonies

## Analogous

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



72.9565, 0.3738, 0.5302



72.9565, 0.2751, 0.5100



72.9565, 0.1918, 0.3990

# Triad

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



72.9565, 0.2751, 0.5100



72.9565, 0.1639, 0.1766



72.9565, 0.5128, 0.3284

# Complementary

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



72.9565, 0.2751, 0.5100



23.0113, 0.4894, 0.2473

# 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.



72.9565, 0.4345, 0.2624



72.9565, 0.2751, 0.5100



72.9565, 0.2240, 0.1796

# Square

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



72.9565, 0.2751, 0.5100



72.9565, 0.1386, 0.2058



72.9565, 0.3210, 0.2098



72.9565, 0.5187, 0.4006



# Rectangle

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



72.9565, 0.2751, 0.5100



72.9565, 0.1568, 0.3148



72.9565, 0.3210, 0.2098



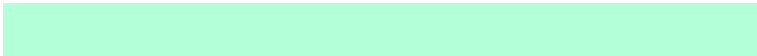
72.9565, 0.4939, 0.3055

# Sweetspot

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



72.9595, 0.2751, 0.5100



85.9570, 0.2893, 0.3738



76.8244, 0.3403, 0.5677



18.0750, 0.2864, 0.3813



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.



72.9595, 0.2751, 0.5100



72.9273, 0.2753, 0.5112



78.2177, 0.2276, 0.3391



20.3130, 0.3050, 0.3417



38.1359, 0.2745, 0.5082



3.7351, 0.2686, 0.4869



# Inverse Universe

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



23.0113, 0.4894, 0.2473



22.9511, 0.4910, 0.2478



21.3195, 0.6369, 0.3287



18.1452, 0.3212, 0.3167



12.0228, 0.4874, 0.2459

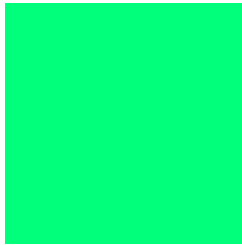


1.1927, 0.4632, 0.2325



# Previews

## White Background



This preview shows how the Yxy color 72.9565, 0.2751, 0.5100 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 72.9565, 0.2751, 0.5100 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

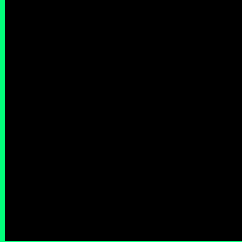
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 72.9565, 0.2751, 0.5100**

## **Background**



This preview shows how black text looks on a background with the Yxy color 72.9565, 0.2751, 0.5100.



This preview shows how white text looks on a background with the Yxy color 72.9565, 0.2751, 0.5100.

# 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

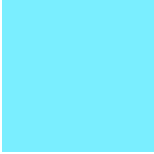
72.9630, 0.2751, 0.5100

### Protanopia

71.3888, 0.4034, 0.4402

### Deuteranopia

70.9556, 0.3826, 0.3807



## **Tritanopia**

72.5066, 0.2413, 0.3088

# Trichromacy



## Original Color

72.9630, 0.2751, 0.5100



## Protanomaly

66.4842, 0.3294, 0.4787



## Deuteranomaly

65.4115, 0.3177, 0.4312



## Tritanomaly

70.8261, 0.2489, 0.3771

# Monochromacy



## Original Color

72.9630, 0.2751, 0.5100



## Achromatopsia

37.1238, 0.3127, 0.3290



## Achromatomaly

45.1057, 0.2792, 0.4034

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 72.9565, 0.2751, 0.5100 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(2, 255, 123)` looks like.

```
.text, #text, p{  
    color:rgb(2, 255, 123)  
}
```

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(2, 255, 123) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(2, 255, 123) }
```

## Border

The CSS property to change the border of an element to Yxy 72.9565, 0.2751, 0.5100 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(2, 255, 123) }
```

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

```
.border{ border-color:rgb(2, 255, 123) }
```

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

Here you see how a box with a 4 pixel rgb(2, 255, 123) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(2, 255, 123); -webkit-box-  
shadow:4px 4px 4px 4px rgb(2, 255, 123);  
box-shadow:4px 4px 4px 4px rgb(2, 255,  
123) }
```



# Background

The CSS property to change the background color of an element to Yxy 72.9565, 0.2751, 0.5100 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(2, 255, 123) }
```

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

```
.background{ background-color: rgb(2, 255,  
123) }
```

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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