

# Converting Colors

$Y_{xy}(72.8535, 0.2764, 0.5148)$

Have a look what the booklet for  
Yxy(72.8535, 0.2764, 0.5148)  
contains.

<b>Yxy(72.8584, 0.2765, 0.5152)</b> .....	3
<b>Conversions</b> .....	4
<b>Details</b> .....	6
<b>Harmonies</b> .....	12
<b>Previews</b> .....	24
<b>Color Blindness Simulation</b> .....	27
<b>CSS Examples</b> .....	30

# Color

**Yxy(72.8584, 0.2765, 0.5152)**

# Conversions

## Conversions Part 1

Format	Color
Hex	01FF77
RGB	1, 255, 119
RGB Percent	0%, 100%, 47%
CMY	0.9963, 0.0000, 0.5333
CMYK	1.00, 0.00, 0.53, 0.00
HSL	148°, 100%, 50%
HSV	148°, 100%, 100%
XYZ	39.1020, 72.8584, 29.4573
YIQ	163.5500, -107.7280, -96.1440

# Conversions

## Conversions Part 2

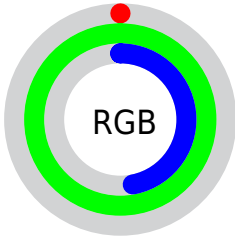
<b>Format</b>	<b>Color</b>
<b>RYB</b>	1, 174, 255
Decimal	130935
CIELab	88.38, -78.05, 50.61
CIELCh	88, 93.020, 147.036
Yxy	72.8584, 0.2765, 0.5152
Android (android.graphics.Color)	4278321015 (0xFF01FF77)
YUV	163.5500, -21.9632, -142.5564
Hunter-Lab	85.3571, -67.6044, 39.2886

# Details

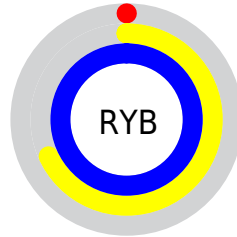
The Yxy color **72.8584, 0.2765, 0.5152** is a dark color, and the websafe version is hex **00FF66**. The color can be described as dark saturated spring green. A complement of this color would be **23.0846, 0.4841, 0.2442**, and the grayscale version is **37.0356, 0.3127, 0.3290**.

A 20% lighter version of the original color is **78.2890, 0.2790, 0.4316**, and **39.8732, 0.2864, 0.5511** is the 20% darker color. If you saturate the color by 10%, you get **72.8401, 0.2766, 0.5159**, and if you desaturate by 10%, it is **73.4296, 0.2731, 0.4963**.

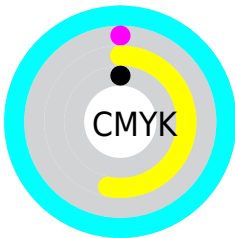
# Distribution



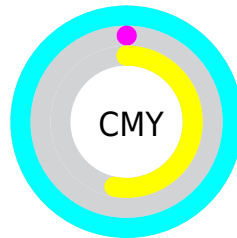
- Red (0%)
- Green (100%)
- Blue (47%)



- Red (0%)
- Yellow (68%)
- Blue (100%)



- Cyan (100%)
- Magenta (0%)
- Yellow (53%)
- Black (0%)




- Cyan (100%)
- Magenta (0%)
- Yellow (53%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 72.8584, 0.2765, 0.5152 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 72.8584, 0.2765, 0.5152 by changing the saturation by 10% instead.




 72.8584, 0.2765,  
0.5152


 72.8584, 0.2765,  
0.5152


470.5239, 0.2984,  
0.4210


 53.8602, 0.2700,  
0.5383


 123.2762, 0.2853,  
0.4811

 38.4899, 0.2613,  
0.5674


 155.4645, 0.2883,  
0.4683


 26.3631, 0.2490,  
0.6049


 192.8184, 0.2908,  
0.4574

 17.0955, 0.2309,  
0.6543

 235.7221, 0.2929,  
0.4480

 10.3026, 0.2032,  
0.7204

 284.5601, 0.2946,  
0.4399

 5.6001, 0.1647,  
0.8353


339.7168, 0.2961,

 2.6034, 0.0109,


0.4328


0.9891


401.5766, 0.2973,  
0.4266


 0.9284, 0.0000,  
1.0000


 0.0000, 0.0000,  
0.0000


 72.8584, 0.2765,  
0.5152


 72.8584, 0.2765,  
0.5152

 72.8401, 0.2766,  
0.5159


 73.4296, 0.2731,  
0.4963


 74.3335, 0.2714,  
0.4760


 75.6528, 0.2718,  
0.4549


 77.4408, 0.2741,  
0.4336

 79.7424, 0.2781,  
0.4128

 82.5970, 0.2836,  
0.3929

 86.0399, 0.2901,  
0.3744

 90.1037, 0.2974,  
0.3575

 94.8182, 0.3051,  
0.3422

# Harmonies

## Analogous

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



72.8584, 0.3764, 0.5325



72.8584, 0.2765, 0.5152



72.8584, 0.1916, 0.4034

# Triad

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



72.8584, 0.2765, 0.5152



72.8584, 0.1610, 0.1750



72.8584, 0.5148, 0.3262

# Complementary

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



72.8584, 0.2765, 0.5152



23.0846, 0.4841, 0.2442

# 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.



72.8584, 0.4338, 0.2599



72.8584, 0.2765, 0.5152



72.8584, 0.2208, 0.1774

# Square

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



72.8584, 0.2765, 0.5152



72.8584, 0.1364, 0.2052



72.8584, 0.3183, 0.2072



72.8584, 0.5221, 0.3990



# Rectangle

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



72.8584, 0.2765, 0.5152



72.8584, 0.1557, 0.3172



72.8584, 0.3183, 0.2072



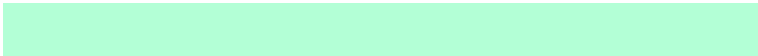
72.8584, 0.4951, 0.3032

# Sweetspot

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



72.8583, 0.2765, 0.5152



85.9019, 0.2898, 0.3751



77.1562, 0.3426, 0.5660



18.0621, 0.2870, 0.3827



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.



72.8583, 0.2765, 0.5152



72.8401, 0.2766, 0.5159



77.9547, 0.2290, 0.3444



20.3087, 0.3052, 0.3420



38.0900, 0.2758, 0.5129



3.7305, 0.2698, 0.4912



# Inverse Universe

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



23.0846, 0.4841, 0.2442



23.0516, 0.4849, 0.2445



21.3112, 0.6360, 0.3280



18.1497, 0.3210, 0.3163



12.0755, 0.4815, 0.2426

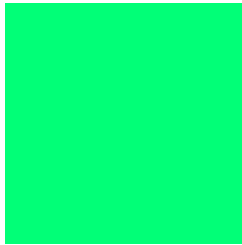


1.1978, 0.4581, 0.2297



# Previews

## White Background



This preview shows how the Yxy color 72.8584, 0.2765, 0.5152 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 72.8584, 0.2765, 0.5152 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 72.8584, 0.2765, 0.5152**

## **Background**



This preview shows how black text looks on a background with the Yxy color 72.8584, 0.2765, 0.5152.

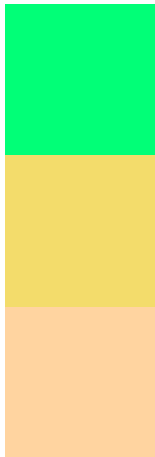


This preview shows how white text looks on a background with the Yxy color 72.8584, 0.2765, 0.5152.

# 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

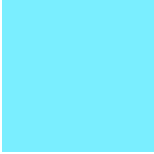
72.8584, 0.2765, 0.5152

### Protanopia

71.3026, 0.4057, 0.4436

### Deuteranopia

70.8850, 0.3841, 0.3827



## **Tritanopia**

72.5066, 0.2413, 0.3088

# Trichromacy



## Original Color

72.8584, 0.2765, 0.5152



## Protanomaly

66.3941, 0.3314, 0.4833



## Deuteranomaly

65.3177, 0.3194, 0.4350



## Tritanomaly

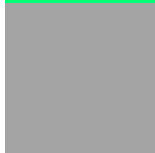
70.7773, 0.2494, 0.3785

# Monochromacy



## Original Color

72.8584, 0.2765, 0.5152



## Achromatopsia

37.1238, 0.3127, 0.3290



## Achromatomaly

45.0739, 0.2798, 0.4050

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 72.8584, 0.2765, 0.5152 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, 119)` looks like.

```
.text, #text, p{  
    color:rgb(1, 255, 119)  
}
```

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, 119) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(1, 255, 119) }
```

## Border

The CSS property to change the border of an element to Yxy 72.8584, 0.2765, 0.5152 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, 119) }
```

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

```
.border{ border-color:rgb(1, 255, 119) }
```

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, 119)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(1, 255, 119); -webkit-box-  
shadow:4px 4px 4px 4px rgb(1, 255, 119);  
box-shadow:4px 4px 4px 4px rgb(1, 255,  
119) }
```



# Background

The CSS property to change the background color of an element to Yxy 72.8584, 0.2765, 0.5152 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, 119) }
```

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

```
.background{ background-color: rgb(1, 255,  
119) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor