

# Converting Colors

$Y_{xy}(73.0550, 0.2735, 0.5046)$

Have a look what the booklet for  
Yxy(73.0550, 0.2735, 0.5046)  
contains.

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# Color

**Yxy(73.0523, 0.2735, 0.5047)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00FF7F
RGB	0, 255, 127
RGB Percent	0%, 100%, 50%
CMY	1.0000, 0.0000, 0.5018
CMYK	1.00, 0.00, 0.50, 0.00
HSL	150°, 100%, 50%
HSV	150°, 100%, 100%
XYZ	39.5875, 73.0523, 32.1042
YIQ	164.1630, -110.8920, -93.8680

# Conversions

## Conversions Part 2

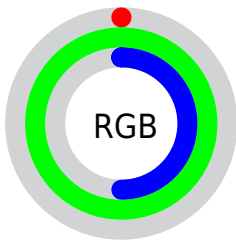
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 170, 255
Decimal	65407
CIELab	88.47, -76.91, 47.01
CIELCh	88, 90.140, 148.566
Yxy	73.0523, 0.2735, 0.5047
Android (android.graphics.Color)	4278255487 (0xFF00FF7F)
YUV	164.1630, -18.3214, -143.9710
Hunter-Lab	85.4706, -66.8977, 37.5591

# Details

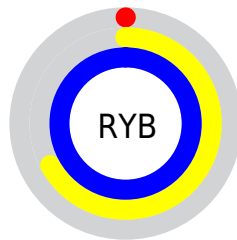
The Yxy color **73.0523, 0.2735, 0.5047** is a dark color, and the websafe version is hex **33FF66**, and the color name is **springgreen**. The color can be described as dark saturated spring green. A complement of this color would be **22.8175, 0.4993, 0.2524**, and the grayscale version is **37.3364, 0.3127, 0.3290**.

A 20% lighter version of the original color is **78.6104, 0.2753, 0.4210**, and **40.4269, 0.2835, 0.5405** is the 20% darker color. If you saturate the color by 10%, you get **73.0533, 0.2735, 0.5047**, and if you desaturate by 10%, it is **73.6216, 0.2703, 0.4865**.

# Distribution



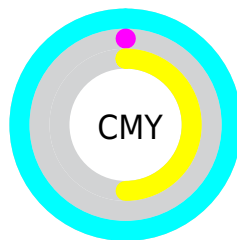
- Red (0%)
- Green (100%)
- Blue (50%)



- Red (0%)
- Yellow (67%)
- Blue (100%)



- Cyan (100%)
- Magenta (0%)
- Yellow (50%)
- Black (0%)




- Cyan (100%)
- Magenta (0%)
- Yellow (50%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 73.0523, 0.2735, 0.5047 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 73.0523, 0.2735, 0.5047 by changing the saturation by 10% instead.





 73.0523, 0.2735,  
0.5047


 73.0523, 0.2735,  
0.5047


471.1961, 0.2962,  
0.4159


 54.0187, 0.2671,  
0.5265


 123.5515, 0.2824,  
0.4726


 38.6166, 0.2585,  
0.5541


 155.7858, 0.2855,  
0.4604


 26.4616, 0.2465,  
0.5899


 193.1893, 0.2881,  
0.4502

 17.1693, 0.2292,  
0.6374

 236.1461, 0.2903,  
0.4414

 10.3553, 0.2028,  
0.7019

 285.0409, 0.2921,  
0.4337

 5.6351, 0.1659,  
0.8131


340.2578, 0.2937,

 2.6245, 0.0246,


0.4271


0.9754


402.1814, 0.2950,  
0.4212


 0.9390, 0.0000,  
1.0000


 0.0000, 0.0000,  
0.0000


 73.0523, 0.2735,  
0.5047


 73.0523, 0.2735,  
0.5047


 73.0533, 0.2735,  
0.5047


 73.6216, 0.2703,  
0.4865


 74.5115, 0.2687,  
0.4673


 75.8092, 0.2692,  
0.4474


 77.5681, 0.2716,  
0.4274

 79.8329, 0.2759,  
0.4080

 82.6431, 0.2816,  
0.3894

 86.0338, 0.2885,  
0.3721

 90.0373, 0.2962,  
0.3562

 94.6834, 0.3043,  
0.3419

# Harmonies

## Analogous

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



73.0523, 0.3710, 0.5278



73.0523, 0.2735, 0.5047



73.0523, 0.1919, 0.3945

# Triad

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



73.0523, 0.2735, 0.5047



73.0523, 0.1668, 0.1782



73.0523, 0.5109, 0.3306

# Complementary

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



73.0523, 0.2735, 0.5047



22.8175, 0.4993, 0.2524

# 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.



73.0523, 0.4354, 0.2650



73.0523, 0.2735, 0.5047



73.0523, 0.2274, 0.1819

# Square

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



73.0523, 0.2735, 0.5047



73.0523, 0.1409, 0.2063



73.0523, 0.3240, 0.2124



73.0523, 0.5152, 0.4024



# Rectangle

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



73.0523, 0.2735, 0.5047



73.0523, 0.1579, 0.3123



73.0523, 0.3240, 0.2124



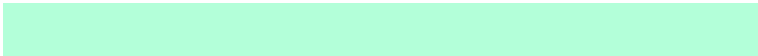
73.0523, 0.4929, 0.3079

# Sweetspot

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



73.0533, 0.2735, 0.5047



86.0338, 0.2885, 0.3721



76.4054, 0.3376, 0.5702



18.0932, 0.2855, 0.3792



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.



73.0533, 0.2735, 0.5047



78.4693, 0.2261, 0.3339



20.3191, 0.3047, 0.3412



38.2020, 0.2727, 0.5017



3.7416, 0.2669, 0.4809

# Inverse Universe

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



22.8175, 0.4993, 0.2524



21.2693, 0.6389, 0.3293



18.1392, 0.3215, 0.3171



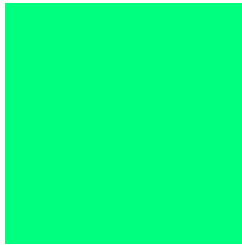
11.9528, 0.4957, 0.2504



1.1859, 0.4703, 0.2365

# Previews

## White Background



This preview shows how the Yxy color 73.0523, 0.2735, 0.5047 looks on a white background.

## Color Contrast Check

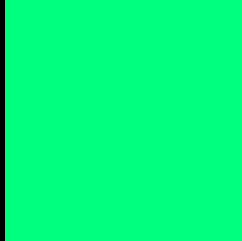
Large Text (above 18pt) WCAG AA × Fail

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 73.0523, 0.2735, 0.5047 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 73.0523, 0.2735, 0.5047**

## **Background**



This preview shows how black text looks on a background with the Yxy color 73.0523, 0.2735, 0.5047.



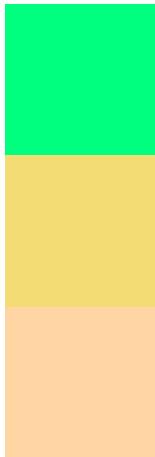
This preview shows how white text looks on a background with the Yxy color 73.0523, 0.2735, 0.5047.



# 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

73.0523, 0.2735, 0.5047

### Protanopia

71.3014, 0.4003, 0.4370

### Deuteranopia

71.4928, 0.3815, 0.3807



## **Tritanopia**

72.5800, 0.2417, 0.3089

# Trichromacy



## Original Color

73.0523, 0.2735, 0.5047



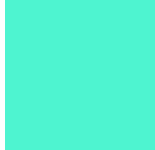
## Protanomaly

66.4798, 0.3268, 0.4744



## Deuteranomaly

65.3702, 0.3158, 0.4288



## Tritanomaly

70.8751, 0.2485, 0.3757

# Monochromacy



## Original Color

73.0523, 0.2735, 0.5047



## Achromatopsia

37.1238, 0.3127, 0.3290



## Achromatomaly

45.1099, 0.2774, 0.4002

# CSS Examples

## Text

The CSS property to change the color of the text to  $Yxy$  73.0523, 0.2735, 0.5047 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, 127)` looks like.

```
.text, #text, p{  
    color:rgb(0, 255, 127)  
}
```

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, 127) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 255, 127) }
```

## Border

The CSS property to change the border of an element to Yxy 73.0523, 0.2735, 0.5047 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, 127) }
```

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

```
.border{ border-color:rgb(0, 255, 127) }
```

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, 127)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 255, 127); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 255, 127);  
box-shadow:4px 4px 4px 4px rgb(0, 255,  
127) }
```

# Background

The CSS property to change the background color of an element to Yxy 73.0523, 0.2735, 0.5047 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, 127) }
```

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

```
.background{ background-color: rgb(0, 255,  
127) }
```

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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