

# Converting Colors

$Y_{xy}(73.0033, 0.2742, 0.5073)$

Have a look what the booklet for  
Yxy(73.0033, 0.2742, 0.5073)  
contains.

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# Color

**Yxy(73.0007, 0.2743, 0.5074)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00FF7D
RGB	0, 255, 125
RGB Percent	0%, 100%, 49%
CMY	0.9986, 0.0000, 0.5099
CMYK	1.00, 0.00, 0.51, 0.00
HSL	149°, 100%, 50%
HSV	149°, 100%, 100%
XYZ	39.4641, 73.0007, 31.4073
YIQ	163.9350, -110.2500, -94.4900

# Conversions

## Conversions Part 2

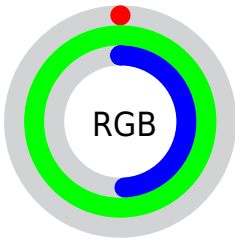
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 171, 255
Decimal	65405
CIELab	88.45, -77.19, 47.94
CIELCh	88, 90.867, 148.160
Yxy	73.0007, 0.2743, 0.5074
Android (android.graphics.Color)	4278255485 (0xFF00FF7D)
YUV	163.9350, -19.1950, -143.7710
Hunter-Lab	85.4404, -67.0734, 38.0137

# Details

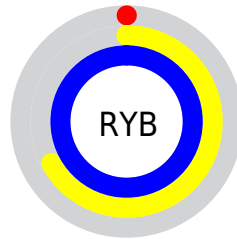
The Yxy color **73.0007, 0.2743, 0.5074** is a dark color, and the websafe version is hex **00FF66**. The color can be described as dark saturated spring green. A complement of this color would be **22.8898, 0.4952, 0.2502**, and the grayscale version is **37.2781, 0.3127, 0.3290**.

A 20% lighter version of the original color is **78.5283, 0.2762, 0.4236**, and **40.4004, 0.2843, 0.5434** is the 20% darker color. If you saturate the color by 10%, you get **72.9956, 0.2744, 0.5077**, and if you desaturate by 10%, it is **73.5730, 0.2710, 0.4890**.

# Distribution



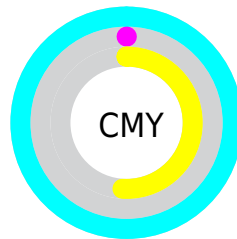
- Red (0%)
- Green (100%)
- Blue (49%)



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



- Cyan (100%)
- Magenta (0%)
- Yellow (51%)
- Black (0%)



- Cyan (100%)
- Magenta (0%)
- Yellow (51%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 73.0007, 0.2743, 0.5074 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 73.0007, 0.2743, 0.5074 by changing the saturation by 10% instead.





 73.0007, 0.2743,  
0.5074

 73.0007, 0.2743,  
0.5074

471.0172, 0.2968,  
0.4172


 53.9765, 0.2679,  
0.5296

 123.4782, 0.2831,  
0.4748


 38.5829, 0.2592,  
0.5576


 155.7003, 0.2863,  
0.4625


 26.4354, 0.2472,  
0.5938


 193.0906, 0.2888,  
0.4520

 17.1497, 0.2297,  
0.6418

 236.0333, 0.2910,  
0.4431

 10.3412, 0.2030,  
0.7068

 284.9130, 0.2928,  
0.4353

 5.6258, 0.1664,  
0.8223


340.1139, 0.2943,

 2.6189, 0.0212,

0.4285

0.9788


402.0205, 0.2956,  
0.4226


 0.9362, 0.0000,  
1.0000


 0.0000, 0.0000,  
0.0000

 73.0007, 0.2743,  
0.5074


 73.0007, 0.2743,  
0.5074


 72.9956, 0.2744,  
0.5077

 73.5730, 0.2710,  
0.4890


 74.4686, 0.2694,  
0.4695

 75.7742, 0.2699,  
0.4493


 77.5431, 0.2723,  
0.4290

 79.8202, 0.2765,  
0.4091

 82.6447, 0.2822,  
0.3903

 86.0520, 0.2890,  
0.3726

 90.0743, 0.2965,  
0.3565

 94.7414, 0.3046,  
0.3419

# Harmonies

## Analogous

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



73.0007, 0.3724, 0.5290



73.0007, 0.2743, 0.5074



73.0007, 0.1918, 0.3968

# Triad

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



73.0007, 0.2743, 0.5074



73.0007, 0.1653, 0.1773



73.0007, 0.5119, 0.3295

# Complementary

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



73.0007, 0.2743, 0.5074



22.8898, 0.4952, 0.2502

# 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.



73.0007, 0.4350, 0.2637



73.0007, 0.2743, 0.5074



73.0007, 0.2257, 0.1807

# Square

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



73.0007, 0.2743, 0.5074



73.0007, 0.1397, 0.2061



73.0007, 0.3225, 0.2110



73.0007, 0.5170, 0.4015



# Rectangle

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



73.0007, 0.2743, 0.5074



73.0007, 0.1573, 0.3135



73.0007, 0.3225, 0.2110



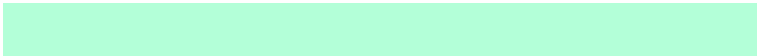
73.0007, 0.4934, 0.3067

# Sweetspot

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



73.0027, 0.2743, 0.5074



85.9990, 0.2889, 0.3729



76.4204, 0.3377, 0.5700



18.0850, 0.2859, 0.3801



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.



73.0027, 0.2743, 0.5074



72.9956, 0.2744, 0.5077



78.4720, 0.2261, 0.3339



20.3164, 0.3049, 0.3414



38.1718, 0.2735, 0.5047



3.7386, 0.2677, 0.4836



# Inverse Universe

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



22.8898, 0.4952, 0.2502



22.8770, 0.4956, 0.2504



21.2780, 0.6387, 0.3293



18.1419, 0.3214, 0.3169



11.9840, 0.4919, 0.2484

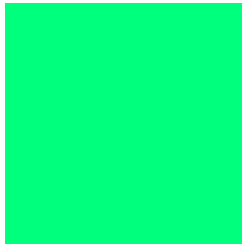


1.1889, 0.4671, 0.2347



# Previews

## White Background



This preview shows how the Yxy color 73.0007, 0.2743, 0.5074 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

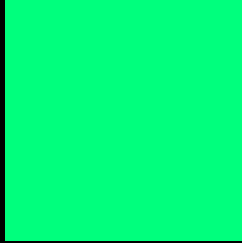
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 73.0007, 0.2743, 0.5074 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 73.0007, 0.2743, 0.5074**

## Background



This preview shows how black text looks on a background with the Yxy color 73.0007, 0.2743, 0.5074.



This preview shows how white text looks on a background with the Yxy color 73.0007, 0.2743, 0.5074.

# Color Blindness Simulation

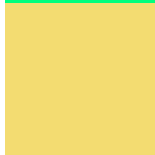
Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



### Original Color

73.0007, 0.2743, 0.5074



### Protanopia

71.4333, 0.4022, 0.4384



### Deuteranopia

70.9913, 0.3818, 0.3797



## Tritanopia

72.5800, 0.2417, 0.3089

# Trichromacy



## Original Color

73.0007, 0.2743, 0.5074



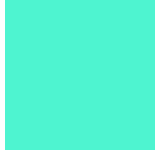
## Protanomaly

66.5307, 0.3284, 0.4764



## Deuteranomaly

65.3381, 0.3164, 0.4301



## Tritanomaly

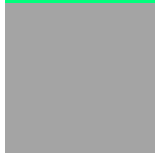
70.8751, 0.2485, 0.3757

# Monochromacy



## Original Color

73.0007, 0.2743, 0.5074



## Achromatopsia

37.1238, 0.3127, 0.3290



## Achromatomaly

45.0776, 0.2780, 0.4019

# CSS Examples

## Text

The CSS property to change the color of the text to  $Yxy$  73.0007, 0.2743, 0.5074 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, 125)` looks like.

```
.text, #text, p{  
    color:rgb(0, 255, 125)  
}
```

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, 125) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 255, 125) }
```

## Border

The CSS property to change the border of an element to Yxy 73.0007, 0.2743, 0.5074 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, 125) }
```

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

```
.border{ border-color:rgb(0, 255, 125) }
```

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, 125)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 255, 125); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 255, 125);  
box-shadow:4px 4px 4px 4px rgb(0, 255,  
125) }
```



# Background

The CSS property to change the background color of an element to Yxy 73.0007, 0.2743, 0.5074 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, 125) }
```

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

```
.background{ background-color: rgb(0, 255,  
125) }
```

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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