

# Converting Colors

$Y_{xy}(74.7404, 0.2532, 0.4316)$

Have a look what the booklet for  
Yxy(74.7404, 0.2532, 0.4316)  
contains.

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# Color

**Yxy(74.7747, 0.2531, 0.4311)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00FFB3
RGB	0, 255, 179
RGB Percent	0%, 100%, 70%
CMY	0.9989, 0.0000, 0.2980
CMYK	1.00, 0.00, 0.30, 0.00
HSL	162°, 100%, 50%
HSV	162°, 100%, 100%
XYZ	43.9004, 74.7747, 54.7758
YIQ	170.0910, -127.5840, -77.6960

# Conversions

## Conversions Part 2

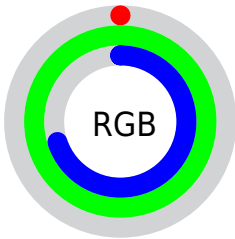
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 150, 255
Decimal	65459
CIELab	89.29, -67.33, 22.47
CIELCh	89, 70.976, 161.547
Yxy	74.7747, 0.2531, 0.4311
Android (android.graphics.Color)	4278255539 (0xFF00FFB3)
YUV	170.0910, 4.3921, -149.1698
Hunter-Lab	86.4724, -60.7055, 22.9735

# Details

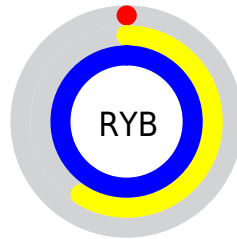
The Yxy color **74.7747, 0.2531, 0.4311** is a dark color, and the websafe version is hex **33FF99**. The color can be described as middle saturated spring green. A complement of this color would be **21.7919, 0.5814, 0.2977**, and the grayscale version is **40.3183, 0.3127, 0.3290**.

A 20% lighter version of the original color is **81.2312, 0.2515, 0.3525**, and **41.4389, 0.2589, 0.4521** is the 20% darker color. If you saturate the color by 10%, you get **74.7719, 0.2531, 0.4312**, and if you desaturate by 10%, it is **75.3087, 0.2515, 0.4198**.

# Distribution



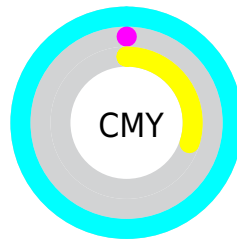
- Red (0%)
- Green (100%)
- Blue (70%)



- Red (0%)
- Yellow (59%)
- Blue (100%)



- Cyan (100%)
- Magenta (0%)
- Yellow (30%)
- Black (0%)




- Cyan (100%)
- Magenta (0%)
- Yellow (30%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 74.7747, 0.2531, 0.4311 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 74.7747, 0.2531, 0.4311 by changing the saturation by 10% instead.




 74.7747, 0.2531,  
0.4311

 74.7747, 0.2531,  
0.4311

477.1428, 0.2819,  
0.3809


 55.4283, 0.2462,  
0.4433


 125.9934, 0.2633,  
0.4131


 39.7448, 0.2376,  
0.4587


 158.6345, 0.2673,  
0.4063

 27.3396, 0.2265,  
0.4787


 196.4760, 0.2706,  
0.4005

 17.8284, 0.2117,  
0.5059

 239.9022, 0.2735,  
0.3955

 10.8269, 0.1911,  
0.5443

 289.2977, 0.2760,  
0.3911

 5.9505, 0.1609,  
0.6022


345.0466, 0.2782,

 2.8150, 0.0976,

0.3873

0.7117


407.5336, 0.2802,  
0.3839

 1.0359, 0.0000,  
1.0000


 0.0000, 0.0000,  
0.0000


 74.7747, 0.2531,  
0.4311

 74.7747, 0.2531,  
0.4311


 74.7719, 0.2531,  
0.4312

 75.3087, 0.2515,  
0.4198


 76.1369, 0.2516,  
0.4084

 77.3458, 0.2537,  
0.3969


 78.9874, 0.2579,  
0.3855

 81.1056, 0.2639,  
0.3745

 83.7384, 0.2716,  
0.3639

 86.9203, 0.2807,  
0.3540

 90.6824, 0.2907,  
0.3449

 95.0537, 0.3016,  
0.3365

# Harmonies

## Analogous

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



74.7747, 0.3306, 0.4832



74.7747, 0.2531, 0.4311



74.7747, 0.1961, 0.3399

# Triad

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



74.7747, 0.2531, 0.4311



74.7747, 0.2118, 0.2031



74.7747, 0.4787, 0.3614

# Complementary

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



74.7747, 0.2531, 0.4311



21.7919, 0.5814, 0.2977

# 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.



74.7747, 0.4404, 0.3021



74.7747, 0.2531, 0.4311



74.7747, 0.2760, 0.2160

# Square

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



74.7747, 0.2531, 0.4311



74.7747, 0.1766, 0.2164



74.7747, 0.3612, 0.2510



74.7747, 0.4636, 0.4220



# Rectangle

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



74.7747, 0.2531, 0.4311



74.7747, 0.1757, 0.2839



74.7747, 0.3612, 0.2510



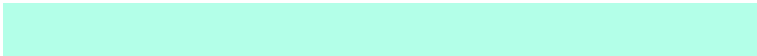
74.7747, 0.4719, 0.3411

# Sweetspot

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



74.7773, 0.2531, 0.4311



86.8806, 0.2805, 0.3541



73.0861, 0.3130, 0.5896



18.2947, 0.2766, 0.3582



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290



# Same Dimension

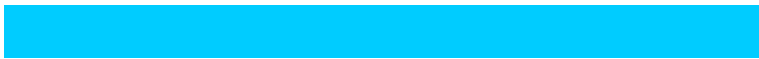
The Same Dimension uses a secret algorithm to generate beautiful new colors.



74.7773, 0.2531, 0.4311



74.7719, 0.2531, 0.4312



50.4354, 0.2062, 0.2622



20.3837, 0.3020, 0.3362



39.0975, 0.2526, 0.4294



3.8261, 0.2490, 0.4164



# Inverse Universe

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



21.7919, 0.5814, 0.2977



21.7827, 0.5817, 0.2978



23.6487, 0.6202, 0.3456



18.0762, 0.3247, 0.3219



11.4047, 0.5775, 0.2955

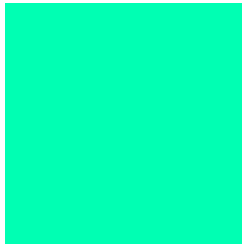


1.1287, 0.5454, 0.2778



# Previews

## White Background



This preview shows how the Yxy color 74.7747, 0.2531, 0.4311 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

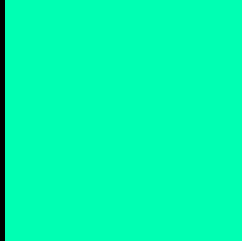
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 74.7747, 0.2531, 0.4311 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

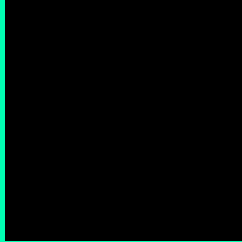
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 74.7747, 0.2531, 0.4311**

## **Background**



This preview shows how black text looks on a background with the Yxy color 74.7747, 0.2531, 0.4311.

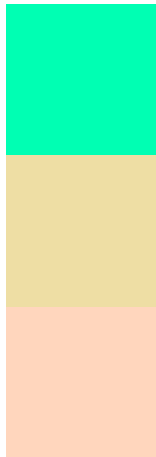


This preview shows how white text looks on a background with the Yxy color 74.7747, 0.2531, 0.4311.

# 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

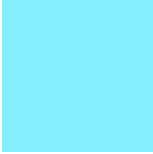
74.7747, 0.2531, 0.4311

### Protanopia

73.1000, 0.3644, 0.3913

### Deuteranopia

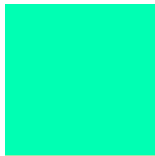
73.0273, 0.3618, 0.3548



## **Tritanopia**

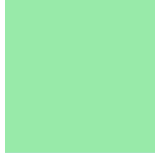
74.0213, 0.2463, 0.3103

# Trichromacy



## Original Color

74.7747, 0.2531, 0.4311



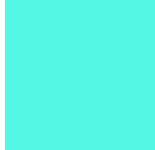
## Protanomaly

68.3856, 0.2983, 0.4119



## Deuteranomaly

67.2228, 0.2952, 0.3840



## Tritanomaly

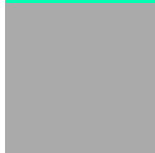
72.7822, 0.2427, 0.3514

# Monochromacy



## Original Color

74.7747, 0.2531, 0.4311



## Achromatopsia

40.1978, 0.3127, 0.3290



## Achromatomaly

47.9786, 0.2672, 0.3703

# CSS Examples

## Text

The CSS property to change the color of the text to  $Yxy$  74.7747, 0.2531, 0.4311 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, 179)` looks like.

```
.text, #text, p{  
    color:rgb(0, 255, 179)  
}
```

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, 179) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 255, 179) }
```

## Border

The CSS property to change the border of an element to Yxy 74.7747, 0.2531, 0.4311 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, 179) }
```

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

```
.border{ border-color:rgb(0, 255, 179) }
```

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, 179)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 255, 179); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 255, 179);  
box-shadow:4px 4px 4px 4px rgb(0, 255,  
179) }
```



# Background

The CSS property to change the background color of an element to Yxy 74.7747, 0.2531, 0.4311 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, 179) }
```

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

```
.background{ background-color: rgb(0, 255,  
179) }
```

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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