

# Converting Colors

$Y_{xy}(75.3819, 0.2587, 0.4330)$

Have a look what the booklet for  
Yxy(75.3819, 0.2587, 0.4330)  
contains.

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# Color

**Yxy(75.3981, 0.2586, 0.4327)**

# Conversions

## Conversions Part 1

Format	Color
Hex	33FFB1
RGB	51, 255, 177
RGB Percent	20%, 100%, 69%
CMY	0.8002, 0.0000, 0.3057
CMYK	0.80, 0.00, 0.31, 0.00
HSL	157°, 100%, 60%
HSV	157°, 80%, 100%
XYZ	45.0611, 75.3981, 53.7911
YIQ	185.1120, -96.5460, -67.5060

# Conversions

## Conversions Part 2

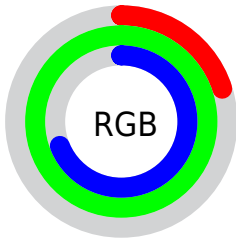
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">51, 177, 255</a>
Decimal	<a href="#">3407793</a>
CIELab	<a href="#">89.58, -65.21, 23.93</a>
CIELCh	<a href="#">90, 69.460, 159.850</a>
Yxy	<a href="#">75.3981, 0.2586, 0.4327</a>
Android (android.graphics.Color)	<a href="#">4281597873 (0xFF33FFB1)</a>
YUV	<a href="#">185.1120, -3.9992, -117.6162</a>
Hunter-Lab	<a href="#">86.8321, -59.3244, 24.0533</a>

# Details

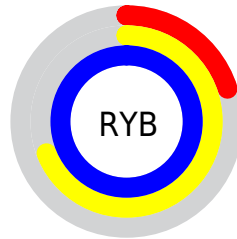
The Yxy color **75.3981, 0.2586, 0.4327** is a light color, and the websafe version is hex **33FF99**. The color can be described as light washed spring green. A complement of this color would be **25.2046, 0.4895, 0.2660**, and the grayscale version is **48.6352, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.1490, 0.2576, 0.3547**, and **41.3877, 0.2599, 0.4558** is the 20% darker color. If you saturate the color by 10%, you get **74.5332, 0.2593, 0.4476**, and if you desaturate by 10%, it is **76.6529, 0.2600, 0.4176**.

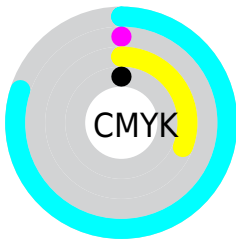
# Distribution



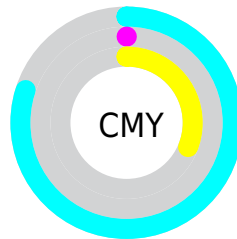
- Red (20%)
- Green (100%)
- Blue (69%)



- Red (20%)
- Yellow (69%)
- Blue (100%)



- Cyan (80%)
- Magenta (0%)
- Yellow (31%)
- Black (0%)




- Cyan (80%)
- Magenta (0%)
- Yellow (31%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 75.3981, 0.2586, 0.4327 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 75.3981, 0.2586, 0.4327 by changing the saturation by 10% instead.




 75.3981, 0.2586,  
0.4327

 75.3981, 0.2586,  
0.4327

479.2848, 0.2850,  
0.3817

 55.9391, 0.2523,  
0.4451


 126.8757, 0.2680,  
0.4144

 40.1541, 0.2443,  
0.4607


 159.6631, 0.2716,  
0.4075

 27.6587, 0.2340,  
0.4811


 197.6621, 0.2746,  
0.4016

 18.0685, 0.2201,  
0.5086

 241.2571, 0.2773,  
0.3965

 10.9992, 0.2006,  
0.5475

290.8325, 0.2796,  
0.3921

 6.0663, 0.1718,  
0.6061

346.7726, 0.2816,

 2.8854, 0.1159,

0.3882

0.7140

409.4619, 0.2834,  
0.3848

■ 1.0722, 0.0000,  
1.0000

■ 0.0000, 0.0000,  
0.0000

■ 75.3981, 0.2586,  
0.4327

■ 75.3981, 0.2586,  
0.4327

■ 74.5332, 0.2593,  
0.4476


■ 76.6529, 0.2600,  
0.4176

■ 73.9740, 0.2617,  
0.4621


■ 78.3505, 0.2634,  
0.4027

■ 80.5348, 0.2687,  
0.3882

■ 83.2445, 0.2756,  
0.3744

 86.5141, 0.2838,  
0.3615

 90.3752, 0.2929,  
0.3496

 94.8570, 0.3026,  
0.3388

99.9867, 0.3127,  
0.3290

100.0000, 0.3127,  
0.3290

# Harmonies

## Analogous

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



75.3981, 0.3351, 0.4801



75.3981, 0.2586, 0.4327



75.3981, 0.2011, 0.3449

# Triad

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



75.3981, 0.2586, 0.4327



75.3981, 0.2111, 0.2056



75.3981, 0.4742, 0.3578

# Complementary

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



75.3981, 0.2586, 0.4327



25.2046, 0.4895, 0.2660

# 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.



75.3981, 0.4337, 0.2997



75.3981, 0.2586, 0.4327



75.3981, 0.2727, 0.2169

# Square

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



75.3981, 0.2586, 0.4327



75.3981, 0.1782, 0.2204



75.3981, 0.3553, 0.2502



75.3981, 0.4626, 0.4173



# Rectangle

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



75.3981, 0.2586, 0.4327



75.3981, 0.1797, 0.2894



75.3981, 0.3553, 0.2502



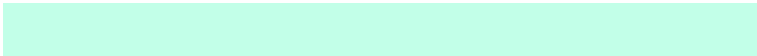
75.3981, 0.4664, 0.3380

# Sweetspot

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



75.3980, 0.2586, 0.4327



88.7674, 0.2892, 0.3542



76.4383, 0.3308, 0.5565



18.7090, 0.2859, 0.3585



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290



# Same Dimension

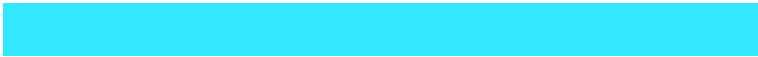
The Same Dimension uses a secret algorithm to generate beautiful new colors.



75.3980, 0.2586, 0.4327



74.1757, 0.2606, 0.4563



65.1820, 0.2205, 0.2992



20.3569, 0.3031, 0.3382



38.6831, 0.2610, 0.4597



3.7878, 0.2564, 0.4431



# Inverse Universe

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



25.2046, 0.4895, 0.2660



22.4754, 0.5388, 0.2762



26.4961, 0.5778, 0.3453



18.1019, 0.3234, 0.3200



11.5908, 0.5457, 0.2780

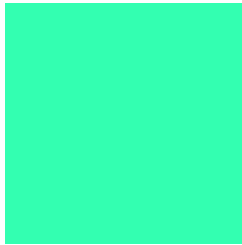


1.1491, 0.5150, 0.2610



# Previews

## White Background



This preview shows how the Yxy color 75.3981, 0.2586, 0.4327 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 75.3981, 0.2586, 0.4327 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

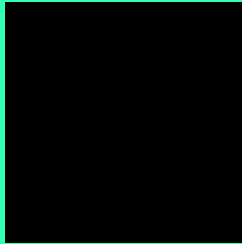
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 75.3981, 0.2586, 0.4327**

## **Background**



This preview shows how black text looks on a background with the Yxy color 75.3981, 0.2586, 0.4327.

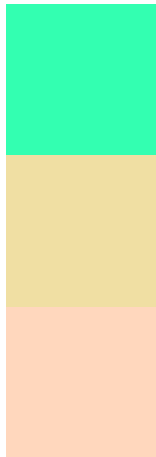


This preview shows how white text looks on a background with the Yxy color 75.3981, 0.2586, 0.4327.

# 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

75.3981, 0.2586, 0.4327

### Protanopia

73.9450, 0.3663, 0.3930

### Deuteranopia

73.5350, 0.3616, 0.3558



## Tritanopia

74.5285, 0.2488, 0.3104

# Trichromacy



## Original Color

75.3981, 0.2586, 0.4327



## Protanomaly

70.9017, 0.3108, 0.4113



## Deuteranomaly

69.9202, 0.3075, 0.3832



## Tritanomaly

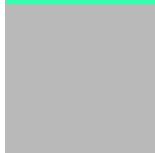
74.0390, 0.2499, 0.3510

# Monochromacy



## Original Color

75.3981, 0.2586, 0.4327



## Achromatopsia

48.5150, 0.3127, 0.3290



## Achromatomaly

54.7048, 0.2795, 0.3672

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 75.3981, 0.2586, 0.4327 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(51, 255, 177)` looks like.

```
.text, #text, p{  
    color:rgb(51, 255, 177)  
}
```

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(51, 255, 177) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(51, 255, 177) }
```

## Border

The CSS property to change the border of an element to Yxy 75.3981, 0.2586, 0.4327 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(51, 255, 177) }
```

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

```
.border{ border-color:rgb(51, 255, 177) }
```

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

Here you see how a box with a 4 pixel `rgb(51, 255, 177)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(51, 255, 177); -webkit-box-  
shadow:4px 4px 4px 4px rgb(51, 255, 177);  
box-shadow:4px 4px 4px 4px rgb(51, 255,  
177) }
```



# Background

The CSS property to change the background color of an element to  $\text{Yxy } 75.3981, 0.2586, 0.4327$  is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(51, 255, 177) }
```

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

```
.background{ background-color: rgb(51, 255,  
177) }
```

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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