

# Converting Colors

$Y_{xy}(75.2525, 0.2673, 0.4523)$

Have a look what the booklet for  
Yxy(75.2525, 0.2673, 0.4523)  
contains.

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# Color

**Yxy(75.2543, 0.2671, 0.4518)**

# Conversions

## Conversions Part 1

Format	Color
Hex	40FFA3
RGB	64, 255, 163
RGB Percent	25%, 100%, 64%
CMY	0.7485, 0.0000, 0.3609
CMYK	0.75, 0.00, 0.36, 0.00
HSL	151°, 100%, 63%
HSV	151°, 75%, 100%
XYZ	44.4896, 75.2543, 46.8216
YIQ	187.4030, -84.3040, -69.1040

# Conversions

## Conversions Part 2

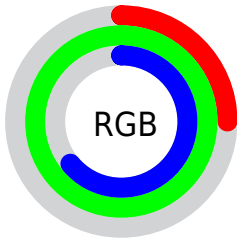
<b>Format</b>	<b>Color</b>
<b>RYB</b>	64, 190, 255
Decimal	4259747
CIELab	89.51, -66.57, 30.96
CIELCh	90, 73.420, 155.061
Yxy	75.2543, 0.2671, 0.4518
Android (android.graphics.Color)	4282449827 (0xFF40FFA3)
YUV	187.4030, -12.0307, -108.2244
Hunter-Lab	86.7492, -60.2668, 28.7236

# Details

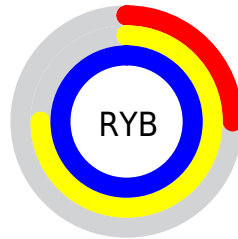
The Yxy color **75.2543, 0.2671, 0.4518** is a light color, and the websafe version is hex **33FF99**. The color can be described as light washed spring green. A complement of this color would be **27.3461, 0.4437, 0.2471**, and the grayscale version is **50.0593, 0.3127, 0.3290**.

A 20% lighter version of the original color is **81.9003, 0.2674, 0.3728**, and **41.0583, 0.2670, 0.4813** is the 20% darker color. If you saturate the color by 10%, you get **74.1677, 0.2675, 0.4708**, and if you desaturate by 10%, it is **76.7803, 0.2688, 0.4326**.

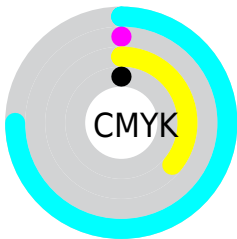
# Distribution



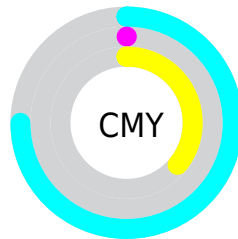
- Red (25%)
- Green (100%)
- Blue (64%)



- Red (25%)
- Yellow (75%)
- Blue (100%)



- Cyan (75%)
- Magenta (0%)
- Yellow (36%)
- Black (0%)




- Cyan (75%)
- Magenta (0%)
- Yellow (36%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 75.2543, 0.2671, 0.4518 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 75.2543, 0.2671, 0.4518 by changing the saturation by 10% instead.




 75.2543, 0.2671,  
0.4518


 75.2543, 0.2671,  
0.4518


478.7912, 0.2903,  
0.3909

 55.8212, 0.2613,  
0.4667


 126.6723, 0.2756,  
0.4299


 40.0596, 0.2539,  
0.4855


 159.4260, 0.2787,  
0.4216

 27.5850, 0.2440,  
0.5101


 197.3887, 0.2814,  
0.4146

 18.0131, 0.2305,  
0.5433

 240.9448, 0.2837,  
0.4085

 10.9594, 0.2109,  
0.5901

290.4787, 0.2857,  
0.4032

 6.0395, 0.1808,  
0.6598

346.3748, 0.2874,

 2.8691, 0.1228,

0.3986

0.8234

409.0175, 0.2889,  
0.3945

■ 1.0638, 0.0000,  
1.0000

■ 0.0000, 0.0000,  
0.0000

■ 75.2543, 0.2671,  
0.4518

■ 75.2543, 0.2671,  
0.4518

■ 74.1677, 0.2675,  
0.4708

■ 76.7803, 0.2688,  
0.4326

■ 73.4524, 0.2699,  
0.4889

■ 78.7851, 0.2724,  
0.4136

■ 73.1872, 0.2716,  
0.4979

■ 81.3131, 0.2776,  
0.3954

■ 84.4013, 0.2842,  
0.3782

■ 88.0833, 0.2917,  
0.3623

■ 92.3898, 0.2999,  
0.3478

■ 97.3493, 0.3085,  
0.3348

■ 99.9993, 0.3127,  
0.3290

# Harmonies

## Analogous

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



75.2543, 0.3485, 0.4910



75.2543, 0.2671, 0.4518



75.2543, 0.2027, 0.3609

# Triad

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



75.2543, 0.2671, 0.4518



75.2543, 0.1986, 0.2003



75.2543, 0.4801, 0.3481

# Complementary

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



75.2543, 0.2671, 0.4518



27.3461, 0.4437, 0.2471

# 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.



75.2543, 0.4293, 0.2887



75.2543, 0.2671, 0.4518



75.2543, 0.2582, 0.2082

# Square

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



75.2543, 0.2671, 0.4518



75.2543, 0.1693, 0.2201



75.2543, 0.3428, 0.2394



75.2543, 0.4755, 0.4106



# Rectangle

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



75.2543, 0.2671, 0.4518



75.2543, 0.1771, 0.2994



75.2543, 0.3428, 0.2394



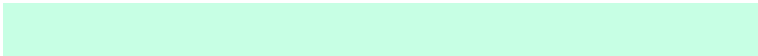
75.2543, 0.4690, 0.3277

# Sweetspot

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



75.2573, 0.2671, 0.4518



89.2474, 0.2940, 0.3580



78.9970, 0.3435, 0.5377



18.8656, 0.2918, 0.3621



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.



75.2573, 0.2671, 0.4518



73.7578, 0.2685, 0.4802



77.8206, 0.2294, 0.3250



20.3253, 0.3045, 0.3407



38.2726, 0.2708, 0.4950



3.7486, 0.2652, 0.4747



# Inverse Universe

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



27.3461, 0.4437, 0.2471



23.7583, 0.4832, 0.2493



25.6825, 0.5712, 0.3319



18.1330, 0.3218, 0.3176



11.8850, 0.5040, 0.2550

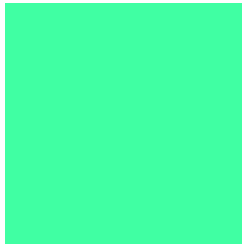


1.1792, 0.4776, 0.2405



# Previews

## White Background



This preview shows how the Yxy color 75.2543, 0.2671, 0.4518 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

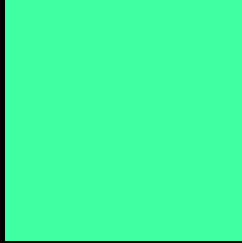
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 75.2543, 0.2671, 0.4518 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

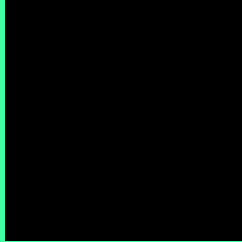
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 75.2543, 0.2671, 0.4518**

## **Background**



This preview shows how black text looks on a background with the Yxy color 75.2543, 0.2671, 0.4518.

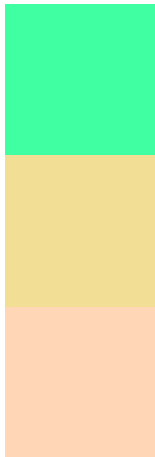


This preview shows how white text looks on a background with the Yxy color 75.2543, 0.2671, 0.4518.

# 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

75.2543, 0.2671, 0.4518

### Protanopia

73.8225, 0.3774, 0.4071

### Deuteranopia

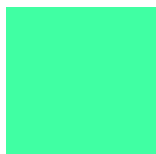
73.2383, 0.3668, 0.3631



## Tritanopia

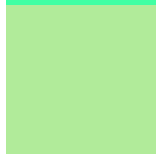
74.6157, 0.2492, 0.3104

# Trichromacy



## Original Color

75.2543, 0.2671, 0.4518



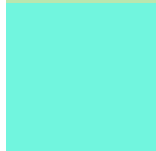
## Protanomaly

71.0969, 0.3229, 0.4277



## Deuteranomaly

70.1279, 0.3170, 0.3950



## Tritanomaly

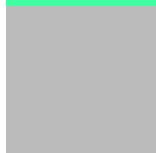
74.0895, 0.2539, 0.3573

# Monochromacy



## Original Color

75.2543, 0.2671, 0.4518



## Achromatopsia

49.6933, 0.3127, 0.3290



## Achromatomaly

56.0521, 0.2859, 0.3750

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 75.2543, 0.2671, 0.4518 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(64, 255, 163)` looks like.

```
.text, #text, p{  
    color:rgb(64, 255, 163)  
}
```

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(64, 255, 163) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(64, 255, 163) }
```

## Border

The CSS property to change the border of an element to Yxy 75.2543, 0.2671, 0.4518 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(64, 255, 163) }
```

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

```
.border{ border-color:rgb(64, 255, 163) }
```

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

Here you see how a box with a 4 pixel `rgb(64, 255, 163)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(64, 255, 163); -webkit-box-  
shadow:4px 4px 4px 4px rgb(64, 255, 163);  
box-shadow:4px 4px 4px 4px rgb(64, 255,  
163) }
```



# Background

The CSS property to change the background color of an element to Yxy 75.2543, 0.2671, 0.4518 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(64, 255, 163) }
```

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

```
.background{ background-color: rgb(64, 255,  
163) }
```

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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