

# Converting Colors

$Y_{xy}(74.9357, 0.2260, 0.3200)$

Have a look what the booklet for  
Yxy(74.9357, 0.2260, 0.3200)  
contains.

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# Color

**Yxy(75.0586, 0.2261, 0.3203)**

# Conversions

## Conversions Part 1

Format	Color
Hex	33F8FF
RGB	51, 248, 255
RGB Percent	20%, 97%, 100%
CMY	0.7997, 0.0274, 0.0000
CMYK	0.80, 0.03, 0.00, 0.00
HSL	182°, 100%, 60%
HSV	182°, 80%, 100%
XYZ	52.9839, 75.0586, 106.2959
YIQ	189.8950, -119.6590, -39.5870

# Conversions

## Conversions Part 2

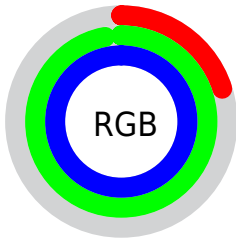
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	51, 151, 255
Decimal	3406079
CIE Lab	89.42, -42.90, -16.64
CIE LCh	89, 46.012, 201.206
Yxy	75.0586, 0.2261, 0.3203
Android (android.graphics.Color)	4281596159 (0xFF33F8FF)
YUV	189.8950, 32.0968, -121.8109
Hunter-Lab	86.6364, -42.4490, -12.0986

# Details

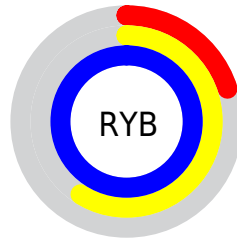
The Yxy color **75.0586, 0.2261, 0.3203** is a light color, and the websafe version is hex **33FFFF**. The color can be described as light washed cyan. A complement of this color would be **24.5320, 0.5900, 0.3339**, and the grayscale version is **51.3071, 0.3127, 0.3290**.

A 20% lighter version of the original color is **83.8083, 0.2497, 0.3288**, and **41.3388, 0.2216, 0.3179** is the 20% darker color. If you saturate the color by 10%, you get **74.0332, 0.2232, 0.3192**, and if you desaturate by 10%, it is **76.4547, 0.2309, 0.3215**.

# Distribution



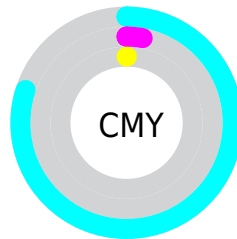
- Red (20%)
- Green (97%)
- Blue (100%)



- Red (20%)
- Yellow (59%)
- Blue (100%)



- Cyan (80%)
- Magenta (3%)
- Yellow (0%)
- Black (0%)




- Cyan (80%)
- Magenta (3%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 75.0586, 0.2261, 0.3203 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 75.0586, 0.2261, 0.3203 by changing the saturation by 10% instead.





 75.0586, 0.2261,  
0.3203


 75.0586, 0.2261,  
0.3203


478.1190, 0.2646,  
0.3256


 55.6609, 0.2177,  
0.3188

 126.3953, 0.2391,  
0.3224


 39.9311, 0.2076,  
0.3168


 159.1031, 0.2443,  
0.3231

 27.4848, 0.1952,  
0.3140


 197.0164, 0.2488,  
0.3238

 17.9377, 0.1797,  
0.3101

 240.5196, 0.2527,  
0.3243

 10.9053, 0.1597,  
0.3042

289.9970, 0.2562,  
0.3247

 6.0032, 0.1334,  
0.2947

345.8331, 0.2593,

 2.8470, 0.0982,

0.3251

0.2780

408.4123, 0.2621,  
0.3254

■ 1.0524, 0.0000,  
0.2591

■ 0.0000, 0.0000,  
0.0000

■ 75.0586, 0.2261,  
0.3203

■ 75.0586, 0.2261,  
0.3203

■ 74.0332, 0.2232,  
0.3192

■ 76.4547, 0.2309,  
0.3215

■ 73.2858, 0.2217,  
0.3180

■ 78.2652, 0.2376,  
0.3226

■ 73.2835, 0.2217,  
0.3180

■ 80.5363, 0.2463,  
0.3238

■ 83.3061, 0.2569,  
0.3249

86.6086, 0.2691,  
0.3260

90.4749, 0.2826,  
0.3271

94.9337, 0.2973,  
0.3281

99.9971, 0.3127,  
0.3290

99.9996, 0.3127,  
0.3290

# Harmonies

## Analogous

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



75.0586, 0.2604, 0.3759



75.0586, 0.2261, 0.3203



75.0586, 0.2139, 0.2740

# Triad

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



75.0586, 0.2261, 0.3203



75.0586, 0.3071, 0.2573



75.0586, 0.4055, 0.4074

# Complementary

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



75.0586, 0.2261, 0.3203



24.5320, 0.5900, 0.3339

# 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.



75.0586, 0.4224, 0.3695



75.0586, 0.2261, 0.3203



75.0586, 0.3630, 0.2869

# Square

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



75.0586, 0.2261, 0.3203



75.0586, 0.2573, 0.2430



75.0586, 0.4069, 0.3266



75.0586, 0.3639, 0.4282



# Rectangle

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



75.0586, 0.2261, 0.3203



75.0586, 0.2187, 0.2541



75.0586, 0.4069, 0.3266



75.0586, 0.4144, 0.3960

# Sweetspot

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



75.0614, 0.2261, 0.3203



88.8513, 0.2770, 0.3267



72.5259, 0.2997, 0.5738



18.7266, 0.2722, 0.3263



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.



75.0614, 0.2261, 0.3203



73.5669, 0.2222, 0.3185



28.5575, 0.1896, 0.1821



20.3683, 0.2980, 0.3281



38.3420, 0.2217, 0.3182



3.7654, 0.2221, 0.3195



# Inverse Universe

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



30.4109, 0.3274, 0.1677



28.1726, 0.3294, 0.1598



46.5828, 0.4933, 0.4226



18.2890, 0.3143, 0.3064



14.5986, 0.3297, 0.1590

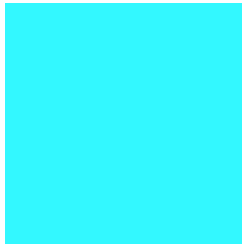


1.4247, 0.3286, 0.1584



# Previews

## White Background



This preview shows how the Yxy color 75.0586, 0.2261, 0.3203 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

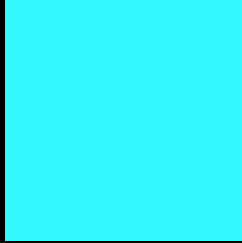
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 75.0586, 0.2261, 0.3203 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

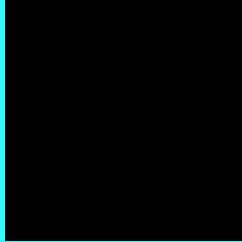
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

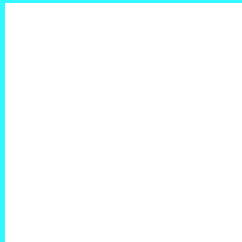
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 75.0586, 0.2261, 0.3203**

## **Background**



This preview shows how black text looks on a background with the Yxy color 75.0586, 0.2261, 0.3203.

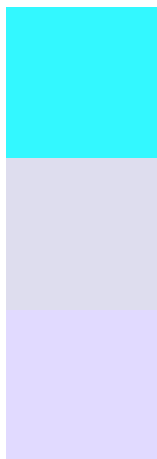


This preview shows how white text looks on a background with the Yxy color 75.0586, 0.2261, 0.3203.

# 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

75.0586, 0.2261, 0.3203

### Protanopia

73.4155, 0.3024, 0.3109

### Deuteranopia

73.3704, 0.2939, 0.2907



## Tritanopia

74.5267, 0.2461, 0.3114

# Trichromacy



## Original Color

75.0586, 0.2261, 0.3203



## Protanomaly

71.1571, 0.2620, 0.3138



## Deuteranomaly

70.9400, 0.2573, 0.2993



## Tritanomaly

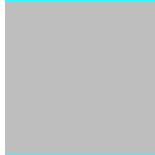
74.2047, 0.2361, 0.3146

# Monochromacy



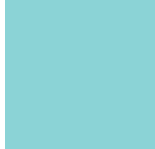
## Original Color

75.0586, 0.2261, 0.3203



## Achromatopsia

51.4918, 0.3127, 0.3290



## Achromatomaly

56.9325, 0.2630, 0.3250

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 75.0586, 0.2261, 0.3203 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, 248, 255)` looks like.

```
.text, #text, p{  
    color:rgb(51, 248, 255)  
}
```

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, 248, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(51, 248, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 75.0586, 0.2261, 0.3203 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, 248, 255) }
```

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

```
.border{ border-color:rgb(51, 248, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(51, 248, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(51, 248, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(51, 248, 255);  
box-shadow:4px 4px 4px 4px rgb(51, 248,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 75.0586, 0.2261, 0.3203 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(51, 248, 255) }
```

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

```
.background{ background-color: rgb(51, 248,  
255) }
```

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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