

# Converting Colors

$Y_{xy}(75.5221, 0.2245, 0.3219)$

Have a look what the booklet for  
Yxy(75.5221, 0.2245, 0.3219)  
contains.

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# Color

**Yxy(75.2947, 0.2244, 0.3215)**

# Conversions

## Conversions Part 1

Format	Color
Hex	21F9FF
RGB	33, 249, 255
RGB Percent	13%, 98%, 100%
CMY	0.8697, 0.0235, 0.0001
CMYK	0.87, 0.02, 0.00, 0.00
HSL	182°, 100%, 57%
HSV	182°, 87%, 100%
XYZ	52.5541, 75.2947, 106.3494
YIQ	185.1000, -130.6620, -43.9260

# Conversions

## Conversions Part 2

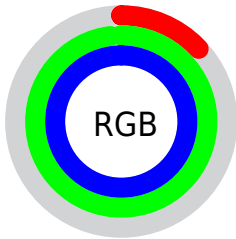
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	33, 142, 255
Decimal	2226687
CIE Lab	89.53, -44.49, -16.49
CIE LCh	90, 47.445, 200.334
Yxy	75.2947, 0.2244, 0.3215
Android (android.graphics.Color)	4280416767 (0xFF21F9FF)
YUV	185.1000, 34.4607, -133.3917
Hunter-Lab	86.7725, -43.7428, -11.9257

# Details

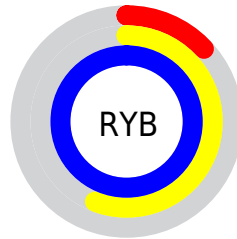
The Yxy color **75.2947, 0.2244, 0.3215** is a light color, and the websafe version is hex **33FFFF**. The color can be described as light washed cyan. A complement of this color would be **22.8302, 0.6148, 0.3323**, and the grayscale version is **48.4703, 0.3127, 0.3290**.

A 20% lighter version of the original color is **83.2520, 0.2471, 0.3288**, and **41.7765, 0.2221, 0.3194** is the 20% darker color. If you saturate the color by 10%, you get **74.5964, 0.2227, 0.3206**, and if you desaturate by 10%, it is **76.3172, 0.2278, 0.3224**.

# Distribution



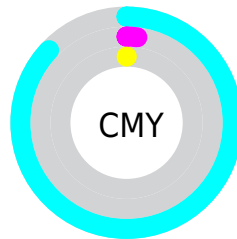
- Red (13%)
- Green (98%)
- Blue (100%)



- Red (13%)
- Yellow (56%)
- Blue (100%)



- Cyan (87%)
- Magenta (2%)
- Yellow (0%)
- Black (0%)




- Cyan (87%)
- Magenta (2%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 75.2947, 0.2244, 0.3215 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 75.2947, 0.2244, 0.3215 by changing the saturation by 10% instead.




 75.2947, 0.2244,  
0.3215

 75.2947, 0.2244,  
0.3215

478.9299, 0.2636,  
0.3263

 55.8544, 0.2159,  
0.3201


 126.7294, 0.2376,  
0.3234


 40.0862, 0.2056,  
0.3182


 159.4926, 0.2429,  
0.3241

 27.6057, 0.1930,  
0.3156


 197.4655, 0.2475,  
0.3247

 18.0287, 0.1772,  
0.3118

 241.0326, 0.2515,  
0.3251

 10.9706, 0.1570,  
0.3061

290.5781, 0.2550,  
0.3255

 6.0470, 0.1305,  
0.2969

346.4866, 0.2582,

 2.8737, 0.0952,

0.3258

409.1424, 0.2610,  
0.3261

0.2805

1.0662, 0.0000,  
0.2613

0.0000, 0.0000,  
0.0000

75.2947, 0.2244,  
0.3215

75.2947, 0.2244,  
0.3215

74.5964, 0.2227,  
0.3206

76.3172, 0.2278,  
0.3224

74.4186, 0.2223,  
0.3204

77.7177, 0.2331,  
0.3233

79.5481, 0.2403,  
0.3242

81.8500, 0.2495,  
0.3252

■ 84.6600, 0.2605,  
0.3260

■ 88.0114, 0.2730,  
0.3269

■ 91.9342, 0.2869,  
0.3277

■ 96.4567, 0.3019,  
0.3285

■ 99.9984, 0.3127,  
0.3290

# Harmonies

## Analogous

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



75.2947, 0.2602, 0.3790



75.2947, 0.2244, 0.3215



75.2947, 0.2113, 0.2734

# Triad

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



75.2947, 0.2244, 0.3215



75.2947, 0.3052, 0.2547



75.2947, 0.4091, 0.4085

# Complementary

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



75.2947, 0.2244, 0.3215



22.8302, 0.6148, 0.3323

# 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.



75.2947, 0.4257, 0.3691



75.2947, 0.2244, 0.3215



75.2947, 0.3629, 0.2847

# Square

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



75.2947, 0.2244, 0.3215



75.2947, 0.2545, 0.2406



75.2947, 0.4088, 0.3251



75.2947, 0.3667, 0.4310

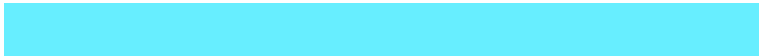


# Rectangle

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



75.2947, 0.2244, 0.3215



75.2947, 0.2157, 0.2527



75.2947, 0.4088, 0.3251



75.2947, 0.4180, 0.3966

# Sweetspot

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



75.2975, 0.2244, 0.3215



88.3861, 0.2743, 0.3270



71.9646, 0.3000, 0.5880



18.6521, 0.2698, 0.3267



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.



75.2975, 0.2244, 0.3215



74.4346, 0.2223, 0.3204



26.4191, 0.1841, 0.1730



20.3925, 0.2980, 0.3283



38.9314, 0.2224, 0.3205



3.8161, 0.2226, 0.3215



# Inverse Universe

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



29.1949, 0.3267, 0.1620



28.0454, 0.3279, 0.1580



42.4814, 0.5132, 0.4187



18.2914, 0.3142, 0.3062



14.6581, 0.3278, 0.1579

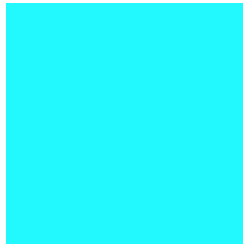


1.4298, 0.3269, 0.1575



# Previews

## White Background



This preview shows how the Yxy color 75.2947, 0.2244, 0.3215 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

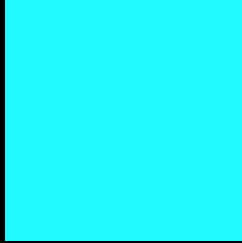
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 75.2947, 0.2244, 0.3215 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

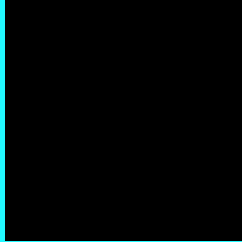
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

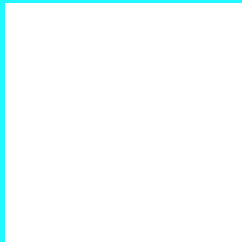
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 75.2947, 0.2244, 0.3215**

## **Background**



This preview shows how black text looks on a background with the Yxy color 75.2947, 0.2244, 0.3215.

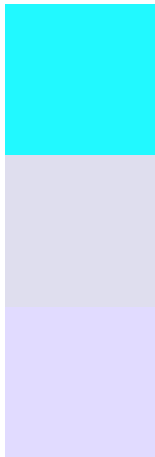


This preview shows how white text looks on a background with the Yxy color 75.2947, 0.2244, 0.3215.

# 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

75.2947, 0.2244, 0.3215

### Protanopia

74.1036, 0.3031, 0.3120

### Deuteranopia

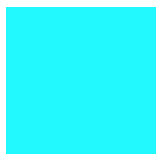
73.8906, 0.2939, 0.2917



## Tritanopia

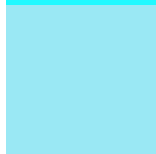
74.5267, 0.2461, 0.3114

# Trichromacy



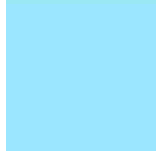
## Original Color

75.2947, 0.2244, 0.3215



## Protanomaly

71.1149, 0.2591, 0.3149



## Deuteranomaly

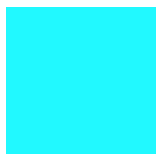
70.7822, 0.2539, 0.3002



## Tritanomaly

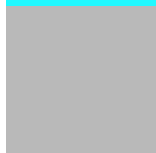
73.8626, 0.2343, 0.3145

# Monochromacy



## Original Color

75.2947, 0.2244, 0.3215



## Achromatopsia

48.5150, 0.3127, 0.3290



## Achromatomaly

54.5107, 0.2597, 0.3262

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 75.2947, 0.2244, 0.3215 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(33, 249, 255)` looks like.

```
.text, #text, p{  
    color:rgb(33, 249, 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(33, 249, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(33, 249, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 75.2947, 0.2244, 0.3215 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(33, 249, 255) }
```

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

```
.border{ border-color:rgb(33, 249, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(33, 249, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(33, 249, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(33, 249, 255);  
box-shadow:4px 4px 4px 4px rgb(33, 249,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 75.2947, 0.2244, 0.3215 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(33, 249, 255) }
```

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

```
.background{ background-color: rgb(33, 249,  
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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