

# Converting Colors

$Y_{xy}(73.9745, 0.2082, 0.2790)$

Have a look what the booklet for  
Yxy(73.9745, 0.2082, 0.2790)  
contains.

<b>Yxy(72.5248, 0.2213, 0.3165)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

# Color

**Yxy(72.5248, 0.2213, 0.3165)**

# Conversions

## Conversions Part 1

Format	Color
Hex	01F5FF
RGB	1, 245, 255
RGB Percent	0%, 96%, 100%
CMY	0.9950, 0.0392, 0.0001
CMYK	1.00, 0.04, 0.00, 0.00
HSL	182°, 100%, 50%
HSV	182°, 100%, 100%
XYZ	50.7101, 72.5248, 105.9114
YIQ	173.1840, -148.6340, -48.6180

# Conversions

## Conversions Part 2

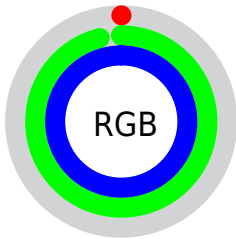
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	1, 125, 255
Decimal	128511
CIE <sub>Lab</sub>	88.22, -43.70, -18.47
CIE <sub>LCh</sub>	88, 47.442, 202.916
Yxy	72.5248, 0.2213, 0.3165
Android (android.graphics.Color)	4278318591 (0xFF01F5FF)
YUV	173.1840, 40.3353, -151.0054
Hunter-Lab	85.1615, -42.7434, -14.1232

# Details

The Yxy color **72.5248, 0.2213, 0.3165** is a light color, and the websafe version is hex **33FFFF**. The color can be described as light saturated cyan. A complement of this color would be **21.5032, 0.6376, 0.3315**, and the grayscale version is **41.7746, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.7331, 0.2446, 0.3288**, and **40.0437, 0.2203, 0.3131** is the 20% darker color. If you saturate the color by 10%, you get **72.4891, 0.2212, 0.3164**, and if you desaturate by 10%, it is **73.3577, 0.2229, 0.3178**.

# Distribution



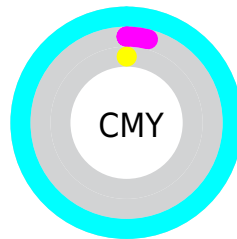
- Red (0%)
- Green (96%)
- Blue (100%)



- Red (0%)
- Yellow (49%)
- Blue (100%)



- Cyan (100%)
- Magenta (4%)
- Yellow (0%)
- Black (0%)




- Cyan (100%)
- Magenta (4%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 72.5248, 0.2213, 0.3165 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 72.5248, 0.2213, 0.3165 by changing the saturation by 10% instead.




 72.5248, 0.2213,  
0.3165


 72.5248, 0.2213,  
0.3165


469.3662, 0.2620,  
0.3238


 53.5875, 0.2124,  
0.3145


 122.8024, 0.2351,  
0.3193


 38.2720, 0.2018,  
0.3119


 154.9114, 0.2405,  
0.3203

 26.1938, 0.1886,  
0.3083


 192.1798, 0.2453,  
0.3212

 16.9687, 0.1722,  
0.3033

 234.9920, 0.2495,  
0.3219

 10.2122, 0.1511,  
0.2958

283.7323, 0.2532,  
0.3225

 5.5399, 0.1235,  
0.2839


338.7852, 0.2564,

 2.5674, 0.0873,

0.3230


400.5350, 0.2594,  
0.3234


0.2634

 0.9103, 0.0000,  
0.2343


 0.0000, 0.0000,  
0.0000


 72.5248, 0.2213,  
0.3165


 72.5248, 0.2213,  
0.3165


 72.4891, 0.2212,  
0.3164


 73.3577, 0.2229,  
0.3178


 74.4769, 0.2260,  
0.3191

 75.9647, 0.2309,  
0.3204

 77.8724, 0.2378,  
0.3218

 80.2435, 0.2466,  
0.3231

 83.1155, 0.2573,  
0.3244

 86.5225, 0.2696,  
0.3257

 90.4954, 0.2833,  
0.3269

 95.0627, 0.2980,  
0.3280

# Harmonies

## Analogous

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



72.5248, 0.2556, 0.3748



72.5248, 0.2213, 0.3165



72.5248, 0.2102, 0.2694

# Triad

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



72.5248, 0.2213, 0.3165



72.5248, 0.3100, 0.2559



72.5248, 0.4073, 0.4122

# Complementary

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



72.5248, 0.2213, 0.3165



21.5032, 0.6376, 0.3315

# 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.



72.5248, 0.4269, 0.3732



72.5248, 0.2213, 0.3165



72.5248, 0.3683, 0.2873

# Square

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



72.5248, 0.2213, 0.3165



72.5248, 0.2576, 0.2401



72.5248, 0.4128, 0.3287



72.5248, 0.3628, 0.4329



# Rectangle

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



72.5248, 0.2213, 0.3165



72.5248, 0.2160, 0.2498



72.5248, 0.4128, 0.3287



72.5248, 0.4172, 0.4005

# Sweetspot

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



72.5275, 0.2213, 0.3165



86.3589, 0.2690, 0.3256



71.5337, 0.2996, 0.5983



18.1649, 0.2636, 0.3251



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.



72.5275, 0.2213, 0.3165



72.5051, 0.2212, 0.3164



20.5791, 0.1735, 0.1443



20.3516, 0.2980, 0.3280



37.9397, 0.2213, 0.3167



3.7307, 0.2217, 0.3181



# Inverse Universe

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



27.8750, 0.3311, 0.1599



27.8506, 0.3312, 0.1598



39.0299, 0.5328, 0.4149



18.2873, 0.3144, 0.3065



14.5580, 0.3310, 0.1597

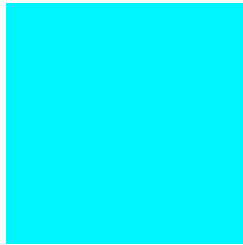


1.4212, 0.3298, 0.1590



# Previews

## White Background



This preview shows how the Yxy color 72.5248, 0.2213, 0.3165 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

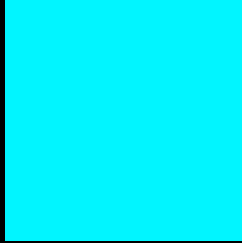
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 72.5248, 0.2213, 0.3165 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

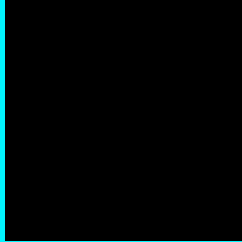
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 72.5248, 0.2213, 0.3165**

## **Background**



This preview shows how black text looks on a background with the Yxy color 72.5248, 0.2213, 0.3165.

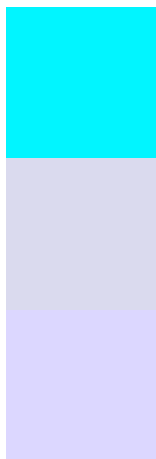


This preview shows how white text looks on a background with the Yxy color 72.5248, 0.2213, 0.3165.

# 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

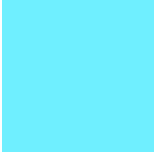
72.5313, 0.2213, 0.3165

### Protanopia

71.2213, 0.2997, 0.3075

### Deuteranopia

71.0365, 0.2904, 0.2871



## Tritanopia

72.3325, 0.2376, 0.3098

# Trichromacy



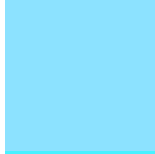
## Original Color

72.5313, 0.2213, 0.3165



## Protanomaly

67.5074, 0.2511, 0.3097



## Deuteranomaly

67.1882, 0.2460, 0.2949



## Tritanomaly

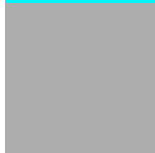
71.4702, 0.2273, 0.3118

# Monochromacy



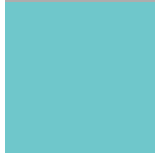
## Original Color

72.5313, 0.2213, 0.3165



## Achromatopsia

41.7885, 0.3127, 0.3290



## Achromatomaly

48.5382, 0.2514, 0.3232

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 72.5248, 0.2213, 0.3165 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(1, 245, 255)` looks like.

```
.text, #text, p{  
    color:rgb(1, 245, 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(1, 245, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(1, 245, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 72.5248, 0.2213, 0.3165 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(1, 245, 255) }
```

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

```
.border{ border-color:rgb(1, 245, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(1, 245, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(1, 245, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(1, 245, 255);  
box-shadow:4px 4px 4px 4px rgb(1, 245,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 72.5248, 0.2213, 0.3165 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(1, 245, 255) }
```

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

```
.background{ background-color: rgb(1, 245,  
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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