

# Converting Colors

$Y_{xy}(78.2312, 0.1964, 0.2468)$

Have a look what the booklet for  
Yxy(78.2312, 0.1964, 0.2468)  
contains.

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# Color

**Yxy(74.3548, 0.2223, 0.3202)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00F8FF
RGB	0, 248, 255
RGB Percent	0%, 97%, 100%
CMY	0.9981, 0.0275, 0.0000
CMYK	1.00, 0.03, 0.00, 0.00
HSL	182°, 100%, 50%
HSV	182°, 100%, 100%
XYZ	51.6211, 74.3548, 106.2377
YIQ	174.6460, -150.0550, -50.3990

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 126, 255
Decimal	63743
CIELab	89.09, -45.03, -17.18
CIELCh	89, 48.196, 200.880
Yxy	74.3548, 0.2223, 0.3202
Android (android.graphics.Color)	4278253823 (0xFF00F8FF)
YUV	174.6460, 39.6145, -153.1645
Hunter-Lab	86.2292, -44.0422, -12.6871

# Details

The Yxy color **74.3548, 0.2223, 0.3202** 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 **21.4238, 0.6385, 0.3310**, and the grayscale version is **42.6069, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.7331, 0.2446, 0.3288**, and **41.3388, 0.2216, 0.3179** is the 20% darker color. If you saturate the color by 10%, you get **74.3460, 0.2223, 0.3202**, and if you desaturate by 10%, it is **75.0060, 0.2237, 0.3211**.

# Distribution



- Red (0%)
- Green (97%)
- Blue (100%)



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



- Cyan (100%)
- Magenta (3%)
- Yellow (0%)
- Black (0%)




- Cyan (100%)
- Magenta (3%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 74.3548, 0.2223, 0.3202 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 74.3548, 0.2223, 0.3202 by changing the saturation by 10% instead.





 74.3548, 0.2223,  
0.3202


 74.3548, 0.2223,  
0.3202


475.6970, 0.2625,  
0.3257


 55.0845, 0.2136,  
0.3186

 125.3986, 0.2359,  
0.3224

 39.4694, 0.2031,  
0.3165


 157.9409, 0.2413,  
0.3232

 27.1251, 0.1902,  
0.3136


 195.6760, 0.2459,  
0.3238

 17.6672, 0.1740,  
0.3094

 238.9883, 0.2501,  
0.3243

 10.7113, 0.1533,  
0.3032

288.2621, 0.2537,  
0.3247

 5.8731, 0.1263,  
0.2930

343.8819, 0.2569,

 2.7680, 0.0906,

0.3251

0.2752

406.2321, 0.2598,  
0.3254

■ 1.0119, 0.0000,  
0.2519

■ 0.0000, 0.0000,  
0.0000

■ 74.3548, 0.2223,  
0.3202

■ 74.3548, 0.2223,  
0.3202

■ 74.3460, 0.2223,  
0.3202

■ 75.0060, 0.2237,  
0.3211

■ 75.9369, 0.2266,  
0.3220

■ 77.2331, 0.2313,  
0.3229

■ 78.9462, 0.2380,  
0.3239

■ 81.1198, 0.2467,  
0.3248

■ 83.7918, 0.2572,  
0.3257

■ 86.9962, 0.2693,  
0.3266

■ 90.7639, 0.2829,  
0.3275

■ 95.1237, 0.2976,  
0.3283

# Harmonies

## Analogous

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



74.3548, 0.2582, 0.3791



74.3548, 0.2223, 0.3202



74.3548, 0.2095, 0.2715

# Triad

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



74.3548, 0.2223, 0.3202



74.3548, 0.3060, 0.2538



74.3548, 0.4103, 0.4105

# Complementary

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



74.3548, 0.2223, 0.3202



21.4238, 0.6385, 0.3310

# 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.



74.3548, 0.4279, 0.3705



74.3548, 0.2223, 0.3202



74.3548, 0.3649, 0.2845

# Square

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



74.3548, 0.2223, 0.3202



74.3548, 0.2541, 0.2391



74.3548, 0.4113, 0.3257



74.3548, 0.3666, 0.4332



# Rectangle

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



74.3548, 0.2223, 0.3202



74.3548, 0.2143, 0.2508



74.3548, 0.4113, 0.3257



74.3548, 0.4196, 0.3984

# Sweetspot

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



74.3575, 0.2223, 0.3202



86.9290, 0.2691, 0.3266



71.5336, 0.2998, 0.5992



18.3038, 0.2638, 0.3262



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.



74.3575, 0.2223, 0.3202



74.3460, 0.2223, 0.3202



21.5147, 0.1748, 0.1493



20.3906, 0.2980, 0.3283



38.8859, 0.2223, 0.3203



3.8122, 0.2226, 0.3214



# Inverse Universe

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



28.0480, 0.3280, 0.1581



28.0364, 0.3280, 0.1581



37.7604, 0.5383, 0.4107



18.2912, 0.3142, 0.3062



14.6535, 0.3279, 0.1580

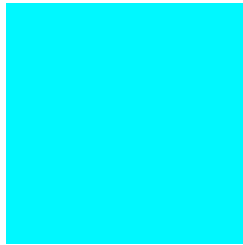


1.4294, 0.3271, 0.1575



# Previews

## White Background



This preview shows how the Yxy color 74.3548, 0.2223, 0.3202 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

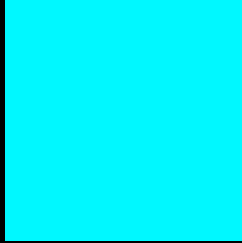
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 74.3548, 0.2223, 0.3202 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

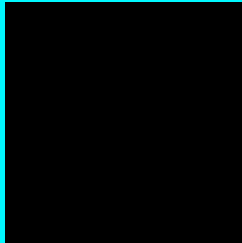
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

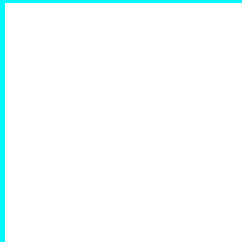
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 74.3548, 0.2223, 0.3202**

## **Background**



This preview shows how black text looks on a background with the Yxy color 74.3548, 0.2223, 0.3202.

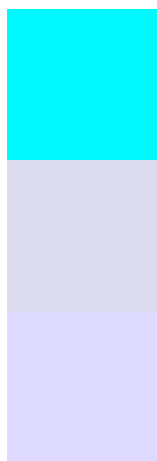


This preview shows how white text looks on a background with the Yxy color 74.3548, 0.2223, 0.3202.

# 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

74.3548, 0.2223, 0.3202

### Protanopia

72.7316, 0.3018, 0.3098

### Deuteranopia

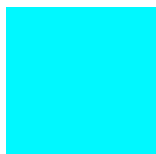
73.0508, 0.2925, 0.2905



## Tritanopia

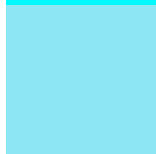
73.9758, 0.2433, 0.3113

# Trichromacy



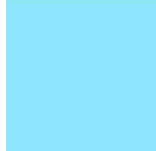
## Original Color

74.3548, 0.2223, 0.3202



## Protanomaly

68.7880, 0.2524, 0.3122



## Deuteranomaly

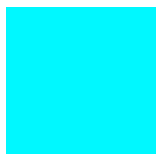
69.0094, 0.2476, 0.2986



## Tritanomaly

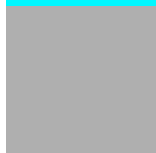
73.0267, 0.2299, 0.3143

# Monochromacy



## Original Color

74.3548, 0.2223, 0.3202



## Achromatopsia

42.8690, 0.3127, 0.3290



## Achromatomaly

50.0454, 0.2521, 0.3260

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 74.3548, 0.2223, 0.3202 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(0, 248, 255)` looks like.

```
.text, #text, p{  
    color:rgb(0, 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(0, 248, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 248, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 74.3548, 0.2223, 0.3202 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(0, 248, 255) }
```

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

```
.border{ border-color:rgb(0, 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(0, 248, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 248, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 248, 255);  
box-shadow:4px 4px 4px 4px rgb(0, 248,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 74.3548, 0.2223, 0.3202 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 248, 255) }
```

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

```
.background{ background-color: rgb(0, 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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