

# Converting Colors

$Y_{xy}(72.0094, 0.2210, 0.3155)$

Have a look what the booklet for  
Yxy(72.0094, 0.2210, 0.3155)  
contains.

<b>Yxy(71.9278, 0.2209, 0.3152)</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(71.9278, 0.2209, 0.3152)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00F4FF
RGB	0, 244, 255
RGB Percent	0%, 96%, 100%
CMY	0.9993, 0.0431, 0.0000
CMYK	1.00, 0.04, 0.00, 0.00
HSL	183°, 100%, 50%
HSV	183°, 100%, 100%
XYZ	50.4088, 71.9278, 105.8607
YIQ	172.2980, -148.9550, -48.3070

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 125, 255
Decimal	62719
CIELab	87.93, -43.27, -18.94
CIELCh	88, 47.229, 203.637
Yxy	71.9278, 0.2209, 0.3152
Android (android.graphics.Color)	4278252799 (0xFF00F4FF)
YUV	172.2980, 40.7721, -151.1053
Hunter-Lab	84.8103, -42.3227, -14.6390

# Details

The Yxy color **71.9278, 0.2209, 0.3152** 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 **21.5034, 0.6379, 0.3316**, and the grayscale version is **41.2897, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.7331, 0.2446, 0.3288**, and **39.6179, 0.2199, 0.3115** is the 20% darker color. If you saturate the color by 10%, you get **71.9228, 0.2209, 0.3152**, and if you desaturate by 10%, it is **72.8064, 0.2225, 0.3167**.

# 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 71.9278, 0.2209, 0.3152 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 71.9278, 0.2209, 0.3152 by changing the saturation by 10% instead.





 71.9278, 0.2209,  
0.3152


 71.9278, 0.2209,  
0.3152

467.2903, 0.2618,  
0.3231

 53.0997, 0.2120,  
0.3131

 121.9539, 0.2348,  
0.3182

 37.8824, 0.2012,  
0.3102


 153.9206, 0.2403,  
0.3193

 25.8914, 0.1880,  
0.3064


 191.0357, 0.2450,  
0.3202

 16.7424, 0.1714,  
0.3011

 233.6836, 0.2492,  
0.3210

 10.0510, 0.1502,  
0.2932

282.2486, 0.2529,  
0.3216

 5.4328, 0.1225,  
0.2807

337.1151, 0.2562,

 2.5034, 0.0860,

0.3222

0.2593

398.6675, 0.2592,  
0.3227

■ 0.8783, 0.0000,  
0.2283

■ 0.0000, 0.0000,  
0.0000

■ 71.9278, 0.2209,  
0.3152

■ 71.9278, 0.2209,  
0.3152

■ 71.9228, 0.2209,  
0.3152

■ 72.8064, 0.2225,  
0.3167

■ 73.9671, 0.2255,  
0.3181

■ 75.4948, 0.2304,  
0.3196

■ 77.4411, 0.2373,  
0.3210

■ 79.8498, 0.2461,  
0.3225

■ 82.7587, 0.2568,  
0.3239

■ 86.2020, 0.2690,  
0.3253

■ 90.2106, 0.2827,  
0.3266

■ 94.8133, 0.2974,  
0.3279

# Harmonies

## Analogous

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



71.9278, 0.2546, 0.3734



71.9278, 0.2209, 0.3152



71.9278, 0.2104, 0.2686

# Triad

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



71.9278, 0.2209, 0.3152



71.9278, 0.3114, 0.2566



71.9278, 0.4064, 0.4129

# Complementary

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



71.9278, 0.2209, 0.3152



21.5034, 0.6379, 0.3316

# 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.



71.9278, 0.4266, 0.3742



71.9278, 0.2209, 0.3152



71.9278, 0.3695, 0.2883

# Square

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



71.9278, 0.2209, 0.3152



71.9278, 0.2587, 0.2404



71.9278, 0.4133, 0.3298



71.9278, 0.3614, 0.4329

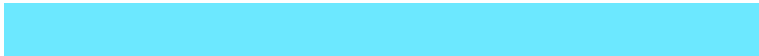


# Rectangle

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



71.9278, 0.2209, 0.3152



71.9278, 0.2165, 0.2494



71.9278, 0.4133, 0.3298



71.9278, 0.4164, 0.4013

# Sweetspot

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



71.9283, 0.2209, 0.3152



86.1772, 0.2689, 0.3253



71.5401, 0.2996, 0.5986



18.1207, 0.2636, 0.3247



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.



71.9283, 0.2209, 0.3152



71.9228, 0.2209, 0.3152



20.4363, 0.1732, 0.1436



20.3392, 0.2980, 0.3279



37.6403, 0.2210, 0.3155



3.7049, 0.2214, 0.3171



# Inverse Universe

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



27.7959, 0.3322, 0.1604



27.7918, 0.3322, 0.1604



38.8910, 0.5335, 0.4145



18.2860, 0.3145, 0.3066



14.5278, 0.3320, 0.1603

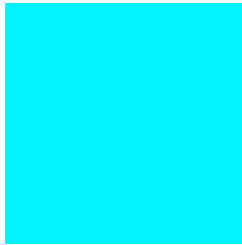


1.4186, 0.3307, 0.1595



# Previews

## White Background



This preview shows how the Yxy color 71.9278, 0.2209, 0.3152 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

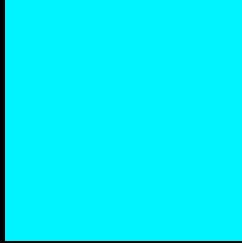
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 71.9278, 0.2209, 0.3152 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 71.9278, 0.2209, 0.3152**

## **Background**



This preview shows how black text looks on a background with the Yxy color 71.9278, 0.2209, 0.3152.

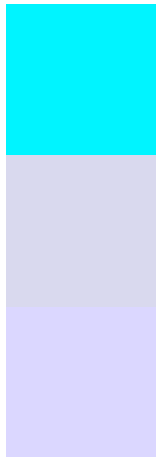


This preview shows how white text looks on a background with the Yxy color 71.9278, 0.2209, 0.3152.

# 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

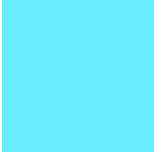
71.9214, 0.2209, 0.3152

### Protanopia

70.5505, 0.2990, 0.3064

### Deuteranopia

70.8809, 0.2898, 0.2870



## **Tritanopia**

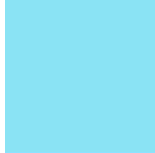
71.3723, 0.2354, 0.3085

# Trichromacy



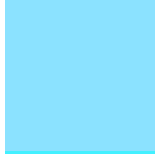
## Original Color

71.9214, 0.2209, 0.3152



## Protanomaly

66.8731, 0.2504, 0.3085



## Deuteranomaly

67.1017, 0.2456, 0.2948



## Tritanomaly

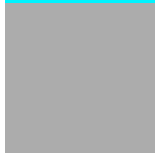
70.7335, 0.2262, 0.3105

# Monochromacy



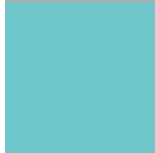
## Original Color

71.9214, 0.2209, 0.3152



## Achromatopsia

41.2543, 0.3127, 0.3290



## Achromatomaly

47.9674, 0.2512, 0.3232

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 71.9278, 0.2209, 0.3152 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, 244, 255)` looks like.

```
.text, #text, p{  
    color:rgb(0, 244, 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, 244, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 244, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 71.9278, 0.2209, 0.3152 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, 244, 255) }
```

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

```
.border{ border-color:rgb(0, 244, 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, 244, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 244, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 244, 255);  
box-shadow:4px 4px 4px 4px rgb(0, 244,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 71.9278, 0.2209, 0.3152 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 244, 255) }
```

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

```
.background{ background-color: rgb(0, 244,  
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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor