

# Converting Colors

$Y_{xy}(100.0000, 0.2309, 0.3756)$

Have a look what the booklet for  
Yxy(100.0000, 0.2309, 0.3756)  
contains.

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# Color

**Yxy(78.2973, 0.2270, 0.3373)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00FFF8
RGB	0, 255, 248
RGB Percent	0%, 100%, 97%
CMY	1.0000, 0.0000, 0.0275
CMYK	1.00, 0.00, 0.03, 0.00
HSL	178°, 100%, 50%
HSV	178°, 100%, 100%
XYZ	52.6934, 78.2973, 101.1388
YIQ	177.9570, -149.7330, -56.2370

# Conversions

## Conversions Part 2

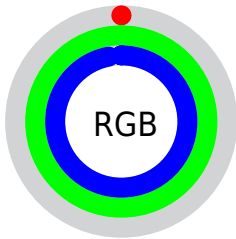
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 129, 255
Decimal	65528
CIELab	90.92, -50.09, -10.80
CIELCh	91, 51.246, 192.171
Yxy	78.2973, 0.2270, 0.3373
Android (android.graphics.Color)	4278255608 (0xFF00FF8)
YUV	177.9570, 34.5312, -156.0683
Hunter-Lab	88.4858, -48.5531, -5.8282

# Details

The Yxy color **78.2973, 0.2270, 0.3373** is a light color, and the websafe version is hex **00FFFF**. The color can be described as light saturated cyan. A complement of this color would be **21.2753, 0.6381, 0.3289**, and the grayscale version is **44.3699, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.8049, 0.2450, 0.3288**, and **43.7383, 0.2268, 0.3365** is the 20% darker color. If you saturate the color by 10%, you get **78.2971, 0.2270, 0.3373**, and if you desaturate by 10%, it is **78.5538, 0.2279, 0.3364**.

# Distribution



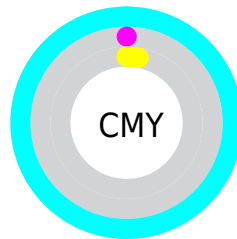
- Red (0%)
- Green (100%)
- Blue (97%)



- Red (0%)
- Yellow (51%)
- Blue (100%)



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




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

# Brightness & Saturation Gradients

These gradients show how the Yxy color 78.2973, 0.2270, 0.3373 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 78.2973, 0.2270, 0.3373 by changing the saturation by 10% instead.





 78.2973, 0.2270,  
0.3373


 78.2973, 0.2270,  
0.3373


489.1759, 0.2650,  
0.3347


 58.3182, 0.2187,  
0.3376


 130.9691, 0.2399,  
0.3366

 42.0645, 0.2088,  
0.3379


 164.4307, 0.2449,  
0.3363

 29.1518, 0.1965,  
0.3380


 203.1552, 0.2494,  
0.3360

 19.1957, 0.1811,  
0.3378

 247.5271, 0.2533,  
0.3357

 11.8118, 0.1614,  
0.3369

297.9307, 0.2567,  
0.3354

 6.6156, 0.1353,  
0.3344


354.7504, 0.2598,


 3.2229, 0.1003,

0.3351


0.3280


418.3707, 0.2625,  
0.3349


 1.2492, 0.0000,  
0.3289


 0.1013, 0.0000,  
0.1048


 78.2973, 0.2270,  
0.3373


 78.2973, 0.2270,  
0.3373


 78.2971, 0.2270,  
0.3373

 78.5538, 0.2279,  
0.3364

 79.0882, 0.2303,  
0.3355


 79.9853, 0.2345,  
0.3346

 81.2971, 0.2406,  
0.3337

 83.0670, 0.2487,  
0.3328

 85.3332, 0.2587,  
0.3320

 88.1297, 0.2703,  
0.3311

 91.4875, 0.2834,  
0.3304

 95.4354, 0.2976,  
0.3297

# Harmonies

## Analogous

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



78.2973, 0.2703, 0.3979



78.2973, 0.2270, 0.3373



78.2973, 0.2066, 0.2814

# Triad

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



78.2973, 0.2270, 0.3373



78.2973, 0.2884, 0.2445



78.2973, 0.4231, 0.4026

# Complementary

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



78.2973, 0.2270, 0.3373



21.2753, 0.6381, 0.3289

# 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.



78.2973, 0.4318, 0.3583



78.2973, 0.2270, 0.3373



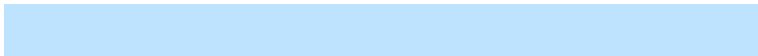
78.2973, 0.3496, 0.2720

# Square

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



78.2973, 0.2270, 0.3373



78.2973, 0.2393, 0.2348



78.2973, 0.4043, 0.3121



78.2973, 0.3839, 0.4337



# Rectangle

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



78.2973, 0.2270, 0.3373



78.2973, 0.2069, 0.2554



78.2973, 0.4043, 0.3121



78.2973, 0.4299, 0.3886

# Sweetspot

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



78.2971, 0.2270, 0.3373



88.1297, 0.2703, 0.3311



71.5749, 0.3005, 0.5996



18.5967, 0.2652, 0.3315



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.



78.2971, 0.2270, 0.3373



24.8283, 0.1794, 0.1659



20.4724, 0.2984, 0.3296



40.9158, 0.2270, 0.3371



3.9865, 0.2267, 0.3361

# Inverse Universe

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



21.2753, 0.6381, 0.3289



34.4537, 0.5535, 0.3987



17.9952, 0.3290, 0.3284



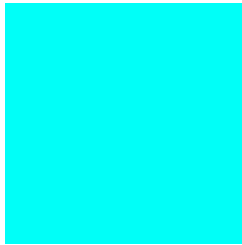
11.1203, 0.6373, 0.3284



1.0855, 0.6307, 0.3248

# Previews

## White Background



This preview shows how the Yxy color 78.2973, 0.2270, 0.3373 looks on a white background.

## Color Contrast Check

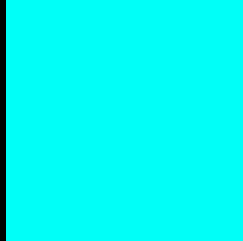
Large Text (above 18pt) WCAG AA × Fail

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 78.2973, 0.2270, 0.3373 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

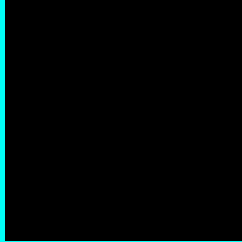
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 78.2973, 0.2270, 0.3373**

## **Background**



This preview shows how black text looks on a background with the Yxy color 78.2973, 0.2270, 0.3373.



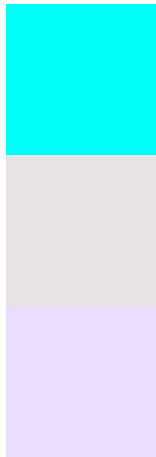
This preview shows how white text looks on a background with the Yxy color 78.2973, 0.2270, 0.3373.



# 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

78.2973, 0.2270, 0.3373

### Protanopia

76.9289, 0.3129, 0.3248

### Deuteranopia

76.5951, 0.3006, 0.2946



## Tritanopia

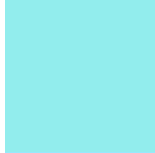
77.5943, 0.2556, 0.3142

# Trichromacy



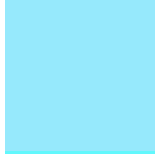
## Original Color

78.2973, 0.2270, 0.3373



## Protanomaly

72.7938, 0.2594, 0.3288



## Deuteranomaly

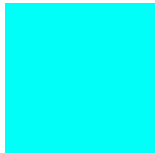
71.7901, 0.2535, 0.3069



## Tritanomaly

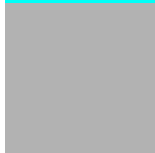
76.1465, 0.2369, 0.3228

# Monochromacy



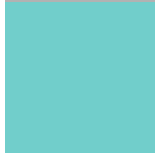
## Original Color

78.2973, 0.2270, 0.3373



## Achromatopsia

44.5201, 0.3127, 0.3290



## Achromatomaly

51.9651, 0.2541, 0.3330

# CSS Examples

## Text

The CSS property to change the color of the text to  $Yxy$  78.2973, 0.2270, 0.3373 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, 255, 248)` looks like.

```
.text, #text, p{  
    color:rgb(0, 255, 248)  
}
```

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, 255, 248) colored shadow looks like.

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

## Border

The CSS property to change the border of an element to Yxy 78.2973, 0.2270, 0.3373 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, 255, 248) }
```

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

```
.border{ border-color:rgb(0, 255, 248) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 255, 248)` colored shadow looks like.

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

# Background

The CSS property to change the background color of an element to Yxy 78.2973, 0.2270, 0.3373 is called "background". The background property can be set on classes, ids or directly on the HTML element.

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

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

```
.background{ background-color: rgb(0, 255,  
248) }
```

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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