

# Converting Colors

$Y_{xy}(77.7190, 0.2173, 0.3005)$

Have a look what the booklet for  
Yxy(77.7190, 0.2173, 0.3005)  
contains.

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# Color

**Yxy(76.3159, 0.2239, 0.3239)**

# Conversions

## Conversions Part 1

Format	Color
Hex	10FBFF
RGB	16, 251, 255
RGB Percent	6%, 98%, 100%
CMY	0.9371, 0.0157, 0.0001
CMYK	0.94, 0.02, 0.00, 0.00
HSL	181°, 100%, 53%
HSV	181°, 94%, 100%
XYZ	52.7543, 76.3159, 106.5454
YIQ	181.1910, -141.3440, -48.5760

# Conversions

## Conversions Part 2

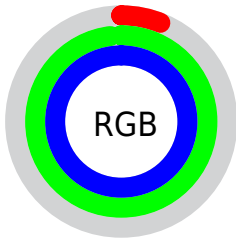
Format	Color
<a href="#">RYB</a>	16, 134, 255
Decimal	1113087
CIELab	90.01, -46.01, -15.79
CIELCh	90, 48.649, 198.939
Yxy	76.3159, 0.2239, 0.3239
Android (android.graphics.Color)	4279303167 (0xFF10FBFF)
YUV	181.1910, 36.3878, -144.8725
Hunter-Lab	87.3590, -45.0856, -11.1604

# Details

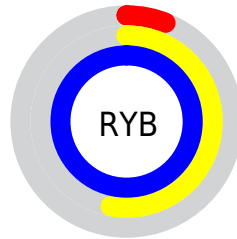
The Yxy color **76.3159, 0.2239, 0.3239** is a light color, and the websafe version is hex **33FFFF**. The color can be described as light washed cyan. A complement of this color would be **21.7962, 0.6311, 0.3308**, and the grayscale version is **46.1750, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.9510, 0.2457, 0.3288**, and **42.6608, 0.2229, 0.3226** is the 20% darker color. If you saturate the color by 10%, you get **76.0410, 0.2232, 0.3236**, and if you desaturate by 10%, it is **76.9573, 0.2260, 0.3244**.

# Distribution



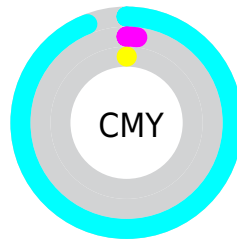
- Red (6%)
- Green (98%)
- Blue (100%)



- Red (6%)
- Yellow (53%)
- Blue (100%)



- Cyan (94%)
- Magenta (2%)
- Yellow (0%)
- Black (0%)




- Cyan (94%)
- Magenta (2%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 76.3159, 0.2239, 0.3239 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 76.3159, 0.2239, 0.3239 by changing the saturation by 10% instead.




 76.3159, 0.2239,  
0.3239


 76.3159, 0.2239,  
0.3239


482.4284, 0.2632,  
0.3276

 56.6916, 0.2154,  
0.3227


 128.1734, 0.2372,  
0.3254

 40.7577, 0.2051,  
0.3212


 161.1753, 0.2425,  
0.3260

 28.1298, 0.1925,  
0.3189


 199.4052, 0.2470,  
0.3264

 18.4235, 0.1767,  
0.3157

 243.2475, 0.2511,  
0.3267

 11.2545, 0.1566,  
0.3107

293.0866, 0.2546,  
0.3270

 6.2383, 0.1301,  
0.3023


349.3068, 0.2578,

 2.9905, 0.0951,


0.3273


0.2874


412.2926, 0.2607,  
0.3275


 1.1268, 0.0000,  
0.2709


 0.0006, 0.0000,  
0.0006


 76.3159, 0.2239,  
0.3239


 76.3159, 0.2239,  
0.3239


 76.0410, 0.2232,  
0.3236

 76.9573, 0.2260,  
0.3244


 77.9365, 0.2299,  
0.3250


 79.3126, 0.2357,  
0.3256


 81.1318, 0.2434,  
0.3262

 83.4341, 0.2531,  
0.3267

 86.2547, 0.2645,  
0.3273

 89.6259, 0.2775,  
0.3278

 93.5771, 0.2917,  
0.3283

 98.1357, 0.3069,  
0.3288

# Harmonies

## Analogous

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



76.3159, 0.2612, 0.3827



76.3159, 0.2239, 0.3239



76.3159, 0.2095, 0.2740

# Triad

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



76.3159, 0.2239, 0.3239



76.3159, 0.3023, 0.2523



76.3159, 0.4124, 0.4083

# Complementary

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



76.3159, 0.2239, 0.3239



21.7962, 0.6311, 0.3308

# 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.



76.3159, 0.4280, 0.3676



76.3159, 0.2239, 0.3239



76.3159, 0.3613, 0.2821

# Square

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



76.3159, 0.2239, 0.3239



76.3159, 0.2513, 0.2388



76.3159, 0.4092, 0.3228



76.3159, 0.3700, 0.4326



# Rectangle

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



76.3159, 0.2239, 0.3239



76.3159, 0.2133, 0.2523



76.3159, 0.4092, 0.3228



76.3159, 0.4211, 0.3959

# Sweetspot

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



76.3187, 0.2239, 0.3239



88.1217, 0.2718, 0.3276



71.6727, 0.2999, 0.5955



18.5579, 0.2663, 0.3274



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.



76.3187, 0.2239, 0.3239



76.0498, 0.2232, 0.3236



23.7038, 0.1788, 0.1602



20.4262, 0.2980, 0.3286



39.7614, 0.2232, 0.3237



3.8874, 0.2234, 0.3243



# Inverse Universe

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



28.5935, 0.3249, 0.1579



28.2084, 0.3252, 0.1565



39.9028, 0.5271, 0.4154



18.2948, 0.3141, 0.3060



14.7419, 0.3251, 0.1565

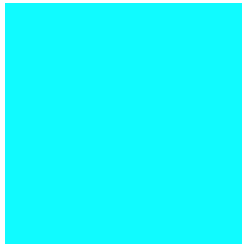


1.4370, 0.3246, 0.1562



# Previews

## White Background



This preview shows how the Yxy color 76.3159, 0.2239, 0.3239 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

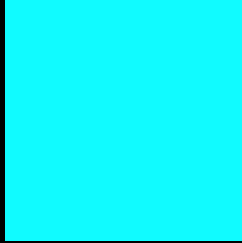
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 76.3159, 0.2239, 0.3239 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

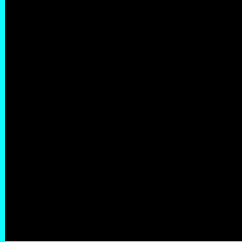
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

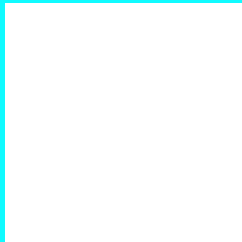
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 76.3159, 0.2239, 0.3239**

## **Background**



This preview shows how black text looks on a background with the Yxy color 76.3159, 0.2239, 0.3239.



This preview shows how white text looks on a background with the Yxy color 76.3159, 0.2239, 0.3239.

# Color Blindness Simulation

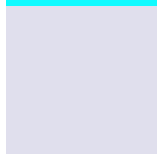
Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



### Original Color

76.3245, 0.2239, 0.3239



### Protanopia

74.7371, 0.3044, 0.3142



### Deuteranopia

74.7373, 0.2952, 0.2929



## Tritanopia

75.7060, 0.2492, 0.3127

# Trichromacy



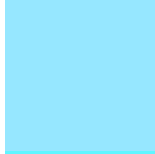
## Original Color

76.3245, 0.2239, 0.3239



## Protanomaly

71.1054, 0.2563, 0.3159



## Deuteranomaly

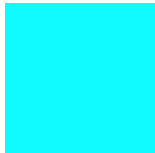
70.8559, 0.2517, 0.3012



## Tritanomaly

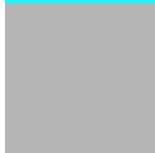
74.9577, 0.2343, 0.3169

# Monochromacy



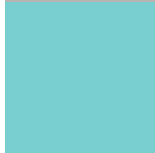
## Original Color

76.3245, 0.2239, 0.3239



## Achromatopsia

46.2077, 0.3127, 0.3290



## Achromatomaly

52.7616, 0.2555, 0.3261

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 76.3159, 0.2239, 0.3239 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(16, 251, 255)` looks like.

```
.text, #text, p{  
    color:rgb(16, 251, 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(16, 251, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(16, 251, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 76.3159, 0.2239, 0.3239 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(16, 251, 255) }
```

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

```
.border{ border-color:rgb(16, 251, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(16, 251, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(16, 251, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(16, 251, 255);  
box-shadow:4px 4px 4px 4px rgb(16, 251,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 76.3159, 0.2239, 0.3239 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(16, 251, 255) }
```

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

```
.background{ background-color: rgb(16, 251,  
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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