

# Converting Colors

$Y_{xy}(67.8296, 0.1552, 0.3971)$

Have a look what the booklet for  
Yxy(67.8296, 0.1552, 0.3971)  
contains.

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# Color

**Yxy(76.4779, 0.2386, 0.3789)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00FFD8
RGB	0, 255, 216
RGB Percent	0%, 100%, 85%
CMY	0.9988, 0.0000, 0.1528
CMYK	1.00, 0.00, 0.15, 0.00
HSL	171°, 100%, 50%
HSV	171°, 100%, 100%
XYZ	48.1595, 76.4779, 77.2045
YIQ	174.3090, -139.4610, -66.1890

# Conversions

## Conversions Part 2

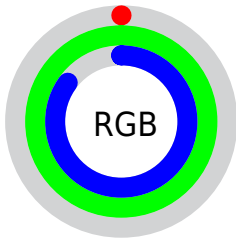
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 138, 255
Decimal	65496
CIELab	90.08, -58.63, 4.55
CIELCh	90, 58.809, 175.558
Yxy	76.4779, 0.2386, 0.3789
Android (android.graphics.Color)	4278255576 (0xFF00FFD8)
YUV	174.3090, 20.5537, -152.8690
Hunter-Lab	87.4516, -54.7407, 8.8734

# Details

The Yxy color **76.4779, 0.2386, 0.3789** is a light color, and the websafe version is hex **33FFCC**. The color can be described as light saturated cyan. A complement of this color would be **21.4152, 0.6219, 0.3200**, and the grayscale version is **42.4930, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.5916, 0.2440, 0.3288**, and **42.5057, 0.2412, 0.3884** is the 20% darker color. If you saturate the color by 10%, you get **76.4763, 0.2386, 0.3790**, and if you desaturate by 10%, it is **76.9003, 0.2384, 0.3735**.

# Distribution



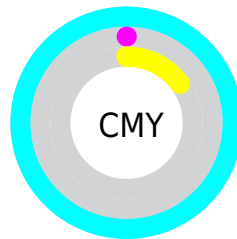
- Red (0%)
- Green (100%)
- Blue (85%)



- Red (0%)
- Yellow (54%)
- Blue (100%)



- Cyan (100%)
- Magenta (0%)
- Yellow (15%)
- Black (0%)



- Cyan (100%)
- Magenta (0%)
- Yellow (15%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 76.4779, 0.2386, 0.3789 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 76.4779, 0.2386, 0.3789 by changing the saturation by 10% instead.




 76.4779, 0.2386,  
0.3789

 76.4779, 0.2386,  
0.3789


482.9821, 0.2725,  
0.3557

 56.8245, 0.2310,  
0.3842


 128.4022, 0.2502,  
0.3708


 40.8643, 0.2217,  
0.3908

 161.4419, 0.2548,  
0.3677

 28.2131, 0.2101,  
0.3991


 199.7124, 0.2588,  
0.3650

 18.4864, 0.1951,  
0.4099

 243.5983, 0.2622,  
0.3627

 11.2997, 0.1754,  
0.4246

 293.4837, 0.2652,  
0.3606

 6.2688, 0.1482,  
0.4455


349.7533, 0.2679,


 3.0092, 0.1082,


0.3588


0.4777


412.7912, 0.2703,  
0.3571


 1.1365, 0.0000,  
0.5590

 0.0089, 0.0000,  
1.0000


 76.4779, 0.2386,  
0.3789

 76.4779, 0.2386,  
0.3789


 76.4763, 0.2386,  
0.3790

 76.9003, 0.2384,  
0.3735


 77.6043, 0.2398,  
0.3680


 78.6763, 0.2431,  
0.3625


 80.1684, 0.2484,  
0.3570

 82.1238, 0.2557,  
0.3516

 84.5807, 0.2646,  
0.3465

 87.5731, 0.2751,  
0.3416

 91.1321, 0.2869,  
0.3370

 95.2864, 0.2996,  
0.3328

# Harmonies

## Analogous

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



76.4779, 0.2984, 0.4395



76.4779, 0.2386, 0.3789



76.4779, 0.2011, 0.3063

# Triad

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



76.4779, 0.2386, 0.3789



76.4779, 0.2508, 0.2244



76.4779, 0.4504, 0.3838

# Complementary

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



76.4779, 0.2386, 0.3789



21.4152, 0.6219, 0.3200

# 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.



76.4779, 0.4379, 0.3315



76.4779, 0.2386, 0.3789



76.4779, 0.3150, 0.2449

# Square

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



76.4779, 0.2386, 0.3789



76.4779, 0.2082, 0.2257



76.4779, 0.3859, 0.2827



76.4779, 0.4219, 0.4309



# Rectangle

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



76.4779, 0.2386, 0.3789



76.4779, 0.1915, 0.2674



76.4779, 0.3859, 0.2827



76.4779, 0.4511, 0.3664

# Sweetspot

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



76.4808, 0.2386, 0.3789



87.5330, 0.2750, 0.3417



72.0288, 0.3043, 0.5965



18.4518, 0.2704, 0.3437



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.



76.4808, 0.2386, 0.3789



76.4767, 0.2386, 0.3790



36.0109, 0.1928, 0.2140



20.4309, 0.3000, 0.3327



39.9788, 0.2384, 0.3781



3.9049, 0.2366, 0.3718



# Inverse Universe

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



21.4152, 0.6219, 0.3200



21.4066, 0.6222, 0.3201



27.7908, 0.5909, 0.3689



18.0324, 0.3270, 0.3254



11.1988, 0.6192, 0.3185

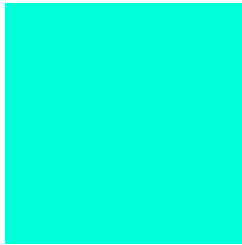


1.1030, 0.5920, 0.3035



# Previews

## White Background



This preview shows how the Yxy color 76.4779, 0.2386, 0.3789 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

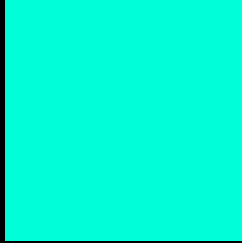
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 76.4779, 0.2386, 0.3789 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

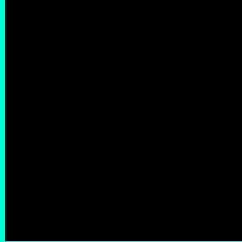
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

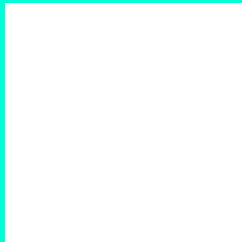
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 76.4779, 0.2386, 0.3789**

## **Background**



This preview shows how black text looks on a background with the Yxy color 76.4779, 0.2386, 0.3789.

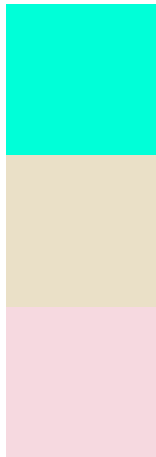


This preview shows how white text looks on a background with the Yxy color 76.4779, 0.2386, 0.3789.

# 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

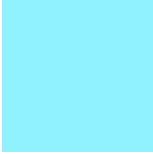
76.4779, 0.2386, 0.3789

### Protanopia

74.9273, 0.3367, 0.3558

### Deuteranopia

74.6004, 0.3291, 0.3219



## **Tritanopia**

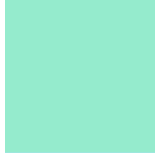
76.0599, 0.2509, 0.3128

# Trichromacy



## Original Color

76.4779, 0.2386, 0.3789



## Protanomaly

70.2140, 0.2769, 0.3660



## Deuteranomaly

69.5404, 0.2722, 0.3409



## Tritanomaly

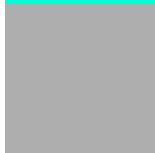
74.5377, 0.2392, 0.3349

# Monochromacy



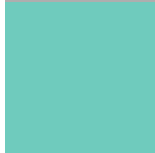
## Original Color

76.4779, 0.2386, 0.3789



## Achromatopsia

42.3268, 0.3127, 0.3290



## Achromatomaly

49.7655, 0.2600, 0.3488

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 76.4779, 0.2386, 0.3789 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, 216)` looks like.

```
.text, #text, p{  
    color:rgb(0, 255, 216)  
}
```

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, 216) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 255, 216) }
```

## Border

The CSS property to change the border of an element to Yxy 76.4779, 0.2386, 0.3789 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, 216) }
```

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

```
.border{ border-color:rgb(0, 255, 216) }
```

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, 216)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 255, 216); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 255, 216);  
box-shadow:4px 4px 4px 4px rgb(0, 255,  
216) }
```



# Background

The CSS property to change the background color of an element to Yxy 76.4779, 0.2386, 0.3789 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, 216) }
```

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

```
.background{ background-color: rgb(0, 255,  
216) }
```

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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