

# Converting Colors

$Y_{xy}(79.8849, 0.2121, 0.4103)$

Have a look what the booklet for  
Yxy(79.8849, 0.2121, 0.4103)  
contains.

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# Color

**Yxy(76.1234, 0.2413, 0.3886)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00FFD1
RGB	0, 255, 209
RGB Percent	0%, 100%, 82%
CMY	0.9983, 0.0000, 0.1805
CMYK	1.00, 0.00, 0.18, 0.00
HSL	169°, 100%, 50%
HSV	169°, 100%, 100%
XYZ	47.2686, 76.1234, 72.4994
YIQ	173.5110, -137.2140, -68.3660

# Conversions

## Conversions Part 2

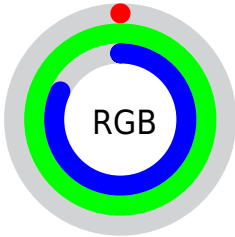
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 140, 255
Decimal	65489
CIELab	89.92, -60.40, 7.97
CIELCh	90, 60.921, 172.482
Yxy	76.1234, 0.2413, 0.3886
Android (android.graphics.Color)	4278255569 (0xFF00FFD1)
YUV	173.5110, 17.4961, -152.1691
Hunter-Lab	87.2487, -55.9796, 11.8070

# Details

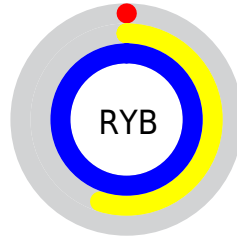
The Yxy color **76.1234, 0.2413, 0.3886** is a light color, and the websafe version is hex **00FFCC**. The color can be described as light saturated cyan. A complement of this color would be **21.4707, 0.6158, 0.3167**, and the grayscale version is **42.0947, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.5219, 0.2436, 0.3288**, and **42.2991, 0.2442, 0.3991** is the 20% darker color. If you saturate the color by 10%, you get **76.1177, 0.2413, 0.3887**, and if you desaturate by 10%, it is **76.5723, 0.2408, 0.3821**.

# Distribution



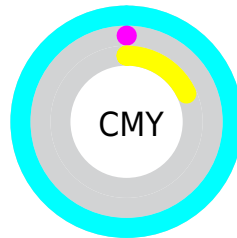
- Red (0%)
- Green (100%)
- Blue (82%)



- Red (0%)
- Yellow (55%)
- Blue (100%)



- Cyan (100%)
- Magenta (0%)
- Yellow (18%)
- Black (0%)



- Cyan (100%)
- Magenta (0%)
- Yellow (18%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 76.1234, 0.2413, 0.3886 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 76.1234, 0.2413, 0.3886 by changing the saturation by 10% instead.





 76.1234, 0.2413,  
0.3886

 76.1234, 0.2413,  
0.3886


481.7700, 0.2742,  
0.3604


 56.5337, 0.2339,  
0.3952


 127.9013, 0.2527,  
0.3787

 40.6310, 0.2247,  
0.4033


 160.8583, 0.2571,  
0.3749


 28.0309, 0.2132,  
0.4137


 199.0399, 0.2609,  
0.3717

 18.3489, 0.1984,  
0.4274

 242.8304, 0.2643,  
0.3688

 11.2008, 0.1785,  
0.4463

 292.6143, 0.2672,  
0.3663

 6.2021, 0.1511,  
0.4738


348.7760, 0.2698,

 2.9683, 0.1085,


0.3641


0.5183


411.6997, 0.2721,  
0.3622


 1.1152, 0.0000,  
0.6361

 0.0000, 0.0000,  
0.0000

 76.1234, 0.2413,  
0.3886

 76.1234, 0.2413,  
0.3886

 76.1177, 0.2413,  
0.3887


 76.5723, 0.2408,  
0.3821


 77.3072, 0.2420,  
0.3755


 78.4124, 0.2451,  
0.3689


 79.9397, 0.2502,  
0.3623

 81.9324, 0.2573,  
0.3559

 84.4288, 0.2660,  
0.3498

 87.4628, 0.2762,  
0.3439

 91.0655, 0.2877,  
0.3385

 95.2655, 0.3000,  
0.3335

# Harmonies

## Analogous

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



76.1234, 0.3047, 0.4484



76.1234, 0.2413, 0.3886



76.1234, 0.2001, 0.3124

# Triad

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



76.1234, 0.2413, 0.3886



76.1234, 0.2430, 0.2202



76.1234, 0.4561, 0.3796

# Complementary

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



76.1234, 0.2413, 0.3886



21.4707, 0.6158, 0.3167

# 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.



76.1234, 0.4388, 0.3257



76.1234, 0.2413, 0.3886



76.1234, 0.3074, 0.2391

# Square

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



76.1234, 0.2413, 0.3886



76.1234, 0.2018, 0.2238



76.1234, 0.3814, 0.2764



76.1234, 0.4301, 0.4296



# Rectangle

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



76.1234, 0.2413, 0.3886



76.1234, 0.1883, 0.2703



76.1234, 0.3814, 0.2764



76.1234, 0.4554, 0.3616

# Sweetspot

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



76.1246, 0.2413, 0.3886



87.4050, 0.2761, 0.3440



72.1280, 0.3051, 0.5958



18.4209, 0.2716, 0.3464



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.



76.1246, 0.2413, 0.3886



76.1177, 0.2413, 0.3887



37.6463, 0.1945, 0.2201



20.4218, 0.3004, 0.3333



39.7936, 0.2410, 0.3876



3.8886, 0.2389, 0.3801



# Inverse Universe

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



21.4707, 0.6158, 0.3167



21.4582, 0.6162, 0.3168



27.1539, 0.5950, 0.3656



18.0407, 0.3266, 0.3247



11.2277, 0.6128, 0.3150

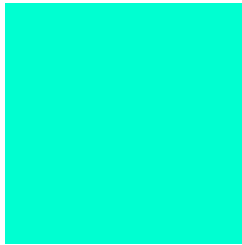


1.1070, 0.5840, 0.2991



# Previews

## White Background



This preview shows how the Yxy color 76.1234, 0.2413, 0.3886 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

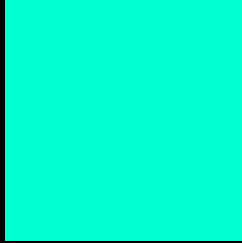
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 76.1234, 0.2413, 0.3886 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

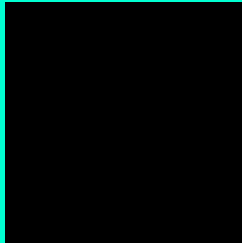
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 76.1234, 0.2413, 0.3886**

## **Background**



This preview shows how black text looks on a background with the Yxy color 76.1234, 0.2413, 0.3886.

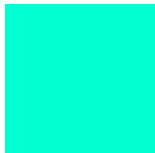


This preview shows how white text looks on a background with the Yxy color 76.1234, 0.2413, 0.3886.

# Color Blindness Simulation

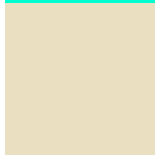
Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



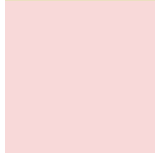
### Original Color

76.1234, 0.2413, 0.3886



### Protanopia

74.2878, 0.3417, 0.3612



### Deuteranopia

74.5919, 0.3355, 0.3291



## Tritanopia

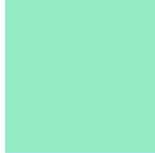
75.2910, 0.2498, 0.3116

# Trichromacy



## Original Color

76.1234, 0.2413, 0.3886



## Protanomaly

70.0242, 0.2807, 0.3737



## Deuteranomaly

69.2760, 0.2766, 0.3495



## Tritanomaly

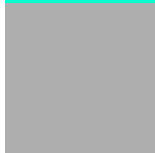
73.7020, 0.2399, 0.3374

# Monochromacy



## Original Color

76.1234, 0.2413, 0.3886



## Achromatopsia

42.3268, 0.3127, 0.3290



## Achromatomaly

49.6792, 0.2612, 0.3518

# CSS Examples

## Text

The CSS property to change the color of the text to  $Yxy$  76.1234, 0.2413, 0.3886 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, 209)` looks like.

```
.text, #text, p{  
    color:rgb(0, 255, 209)  
}
```

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, 209) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 255, 209) }
```

## Border

The CSS property to change the border of an element to Yxy 76.1234, 0.2413, 0.3886 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, 209) }
```

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

```
.border{ border-color:rgb(0, 255, 209) }
```

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, 209)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 255, 209); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 255, 209);  
box-shadow:4px 4px 4px 4px rgb(0, 255,  
209) }
```



# Background

The CSS property to change the background color of an element to Yxy 76.1234, 0.2413, 0.3886 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, 209) }
```

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

```
.background{ background-color: rgb(0, 255,  
209) }
```

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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