

# Converting Colors

$Y_{xy}(78.8899, 0.2356, 0.4178)$

Have a look what the booklet for  
Yxy(78.8899, 0.2356, 0.4178)  
contains.

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# Color

**Yxy(75.5512, 0.2459, 0.4054)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00FFC5
RGB	0, 255, 197
RGB Percent	0%, 100%, 77%
CMY	1.0000, 0.0000, 0.2275
CMYK	1.00, 0.00, 0.23, 0.00
HSL	166°, 100%, 50%
HSV	166°, 100%, 100%
XYZ	45.8264, 75.5512, 64.9845
YIQ	172.1430, -133.3620, -72.0980

# Conversions

## Conversions Part 2

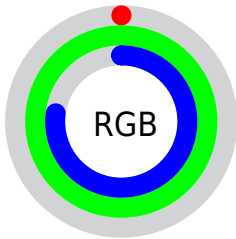
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 144, 255
Decimal	65477
CIELab	89.65, -63.32, 13.77
CIELCh	90, 64.801, 167.734
Yxy	75.5512, 0.2459, 0.4054
Android (android.graphics.Color)	4278255557 (0xFF00FFC5)
YUV	172.1430, 12.2545, -150.9694
Hunter-Lab	86.9202, -58.0008, 16.5169

# Details

The Yxy color **75.5512, 0.2459, 0.4054** 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 **21.5656, 0.6042, 0.3102**, and the grayscale version is **41.3177, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.3888, 0.2437, 0.3299**, and **41.9157, 0.2502, 0.4208** is the 20% darker color. If you saturate the color by 10%, you get **75.5508, 0.2459, 0.4054**, and if you desaturate by 10%, it is **76.0350, 0.2450, 0.3970**.

# Distribution



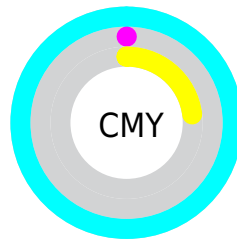
- Red (0%)
- Green (100%)
- Blue (77%)



- Red (0%)
- Yellow (56%)
- Blue (100%)



- Cyan (100%)
- Magenta (0%)
- Yellow (23%)
- Black (0%)




- Cyan (100%)
- Magenta (0%)
- Yellow (23%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 75.5512, 0.2459, 0.4054 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 75.5512, 0.2459, 0.4054 by changing the saturation by 10% instead.




 75.5512, 0.2459,  
0.4054


 75.5512, 0.2459,  
0.4054

479.8100, 0.2772,  
0.3686

 56.0646, 0.2387,  
0.4141


 127.0923, 0.2568,  
0.3924

 40.2547, 0.2298,  
0.4251


 159.9156, 0.2610,  
0.3874


 27.7372, 0.2185,  
0.4393


 197.9532, 0.2647,  
0.3831

 18.1276, 0.2037,  
0.4582

 241.5895, 0.2678,  
0.3794

 11.0417, 0.1837,  
0.4847

 291.2089, 0.2706,  
0.3762

 6.0949, 0.1554,  
0.5241


347.1959, 0.2731,

 2.9029, 0.1065,


0.3734


0.5922

409.9348, 0.2753,  
0.3708


 1.0812, 0.0000,  
0.8434


 0.0000, 0.0000,  
0.0000


 75.5512, 0.2459,  
0.4054


 75.5512, 0.2459,  
0.4054


 75.5508, 0.2459,  
0.4054

 76.0350, 0.2450,  
0.3970


 76.8071, 0.2457,  
0.3885


 77.9523, 0.2484,  
0.3800

 79.5224, 0.2531,  
0.3715

 81.5613, 0.2598,  
0.3633

 84.1069, 0.2681,  
0.3554

 87.1936, 0.2778,  
0.3480

 90.8525, 0.2887,  
0.3411

 95.1124, 0.3004,  
0.3348

# Harmonies

## Analogous

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



75.5512, 0.3151, 0.4629



75.5512, 0.2459, 0.4054



75.5512, 0.1983, 0.3229

# Triad

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



75.5512, 0.2459, 0.4054



75.5512, 0.2300, 0.2131



75.5512, 0.4655, 0.3723

# Complementary

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



75.5512, 0.2459, 0.4054



21.5656, 0.6042, 0.3102

# 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.



75.5512, 0.4399, 0.3161



75.5512, 0.2459, 0.4054



75.5512, 0.2947, 0.2296

# Square

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



75.5512, 0.2459, 0.4054



75.5512, 0.1913, 0.2207



75.5512, 0.3736, 0.2660



75.5512, 0.4438, 0.4271



# Rectangle

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



75.5512, 0.2459, 0.4054



75.5512, 0.1830, 0.2755



75.5512, 0.3736, 0.2660



75.5512, 0.4625, 0.3533

# Sweetspot

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



75.5508, 0.2459, 0.4054



87.1936, 0.2778, 0.3480



72.4652, 0.3080, 0.5937



18.3699, 0.2736, 0.3511



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.



75.5508, 0.2459, 0.4054



42.7606, 0.1995, 0.2381



20.4066, 0.3010, 0.3345



39.5008, 0.2456, 0.4040



3.8625, 0.2429, 0.3943

# Inverse Universe

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



21.5656, 0.6042, 0.3102



25.3942, 0.6072, 0.3561



18.0547, 0.3258, 0.3236



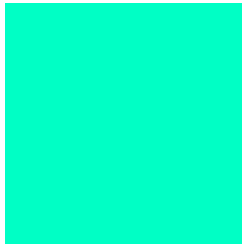
11.2870, 0.6004, 0.3081



1.1147, 0.5695, 0.2911

# Previews

## White Background



This preview shows how the Yxy color 75.5512, 0.2459, 0.4054 looks on a white background.

## Color Contrast Check

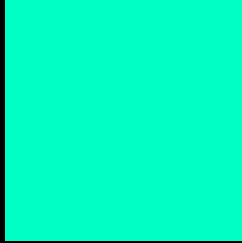
Large Text (above 18pt) WCAG AA × Fail

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 75.5512, 0.2459, 0.4054 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

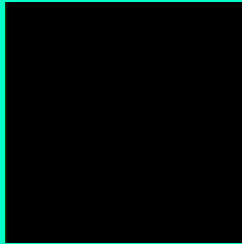
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 75.5512, 0.2459, 0.4054**

## **Background**



This preview shows how black text looks on a background with the Yxy color 75.5512, 0.2459, 0.4054.



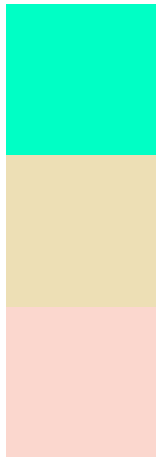
This preview shows how white text looks on a background with the Yxy color 75.5512, 0.2459, 0.4054.



# 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

75.5512, 0.2459, 0.4054

### Protanopia

74.1161, 0.3516, 0.3741

### Deuteranopia

73.5663, 0.3460, 0.3384



## Tritanopia

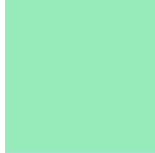
74.9434, 0.2481, 0.3115

# Trichromacy



## Original Color

75.5512, 0.2459, 0.4054



## Protanomaly

69.5838, 0.2878, 0.3893



## Deuteranomaly

68.3790, 0.2837, 0.3621



## Tritanomaly

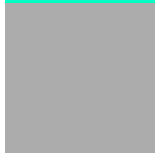
73.3200, 0.2406, 0.3424

# Monochromacy



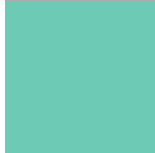
## Original Color

75.5512, 0.2459, 0.4054



## Achromatopsia

41.2543, 0.3127, 0.3290



## Achromatomaly

48.8285, 0.2633, 0.3594

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 75.5512, 0.2459, 0.4054 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, 197)` looks like.

```
.text, #text, p{  
    color:rgb(0, 255, 197)  
}
```

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, 197) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 255, 197) }
```

## Border

The CSS property to change the border of an element to Yxy 75.5512, 0.2459, 0.4054 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, 197) }
```

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

```
.border{ border-color:rgb(0, 255, 197) }
```

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, 197)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 255, 197); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 255, 197);  
box-shadow:4px 4px 4px 4px rgb(0, 255,  
197) }
```

# Background

The CSS property to change the background color of an element to Yxy 75.5512, 0.2459, 0.4054 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, 197) }
```

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

```
.background{ background-color: rgb(0, 255,  
197) }
```

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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