

# Converting Colors

$Y_{xy}(70.0010, 0.2507, 0.4225)$

Have a look what the booklet for  
Yxy(70.0010, 0.2507, 0.4225)  
contains.

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# Color

**Yxy(69.7762, 0.2507, 0.4226)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00F7B3
RGB	0, 247, 179
RGB Percent	0%, 97%, 70%
CMY	1.0000, 0.0313, 0.2980
CMYK	1.00, 0.00, 0.28, 0.03
HSL	163°, 100%, 48%
HSV	163°, 100%, 97%
XYZ	41.3935, 69.7762, 53.9420
YIQ	165.3950, -125.3840, -73.5120

# Conversions

## Conversions Part 2

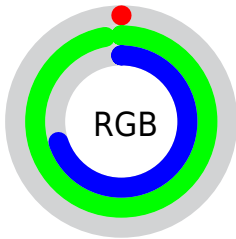
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 143, 247
Decimal	63411
CIELab	86.89, -64.48, 19.14
CIELCh	87, 67.263, 163.469
Yxy	69.7762, 0.2507, 0.4226
Android (android.graphics.Color)	4278253491 (0xFF00F7B3)
YUV	165.3950, 6.7073, -145.0514
Hunter-Lab	83.5321, -57.7274, 20.1852

# Details

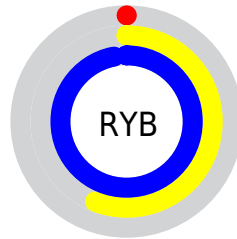
The Yxy color **69.7762, 0.2507, 0.4226** is a dark color, and the websafe version is hex **00FFCC**. The color can be described as middle saturated spring green. A complement of this color would be **20.1930, 0.5891, 0.3019**, and the grayscale version is **37.8420, 0.3127, 0.3290**.

A 20% lighter version of the original color is **81.0956, 0.2508, 0.3526**, and **37.9016, 0.2561, 0.4419** is the 20% darker color. If you saturate the color by 10%, you get **69.7823, 0.2507, 0.4226**, and if you desaturate by 10%, it is **70.2672, 0.2494, 0.4123**.

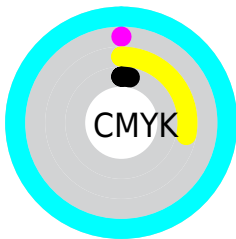
# Distribution



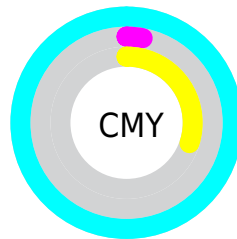
- Red (0%)
- Green (97%)
- Blue (70%)



- Red (0%)
- Yellow (56%)
- Blue (97%)



- Cyan (100%)
- Magenta (0%)
- Yellow (28%)
- Black (3%)



- Cyan (100%)
- Magenta (3%)
- Yellow (30%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 69.7762, 0.2507, 0.4226 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 69.7762, 0.2507, 0.4226 by changing the saturation by 10% instead.





 69.7762, 0.2507,  
0.4226


 69.7762, 0.2507,  
0.4226

459.7638, 0.2807,  
0.3763

 51.3441, 0.2435,  
0.4339

 118.8895, 0.2614,  
0.4059


 36.4825, 0.2345,  
0.4483


 150.3396, 0.2654,  
0.3996

 24.8071, 0.2229,  
0.4672


 186.8977, 0.2689,  
0.3943

 15.9334, 0.2074,  
0.4929

 228.9484, 0.2719,  
0.3897

 9.4770, 0.1857,  
0.5298

 276.8759, 0.2746,  
0.3857

 5.0536, 0.1539,  
0.5862


331.0647, 0.2769,

 2.2788, 0.0638,

0.3822

0.7168


391.8992, 0.2789,  
0.3791


 0.7624, 0.0000,  
1.0000


 0.0000, 0.0000,  
0.0000


 69.7762, 0.2507,  
0.4226


 69.7762, 0.2507,  
0.4226


 69.7823, 0.2507,  
0.4226

 70.2672, 0.2494,  
0.4123


 71.0230, 0.2497,  
0.4018


 72.1296, 0.2520,  
0.3913


 73.6351, 0.2563,  
0.3809

 75.5799, 0.2626,  
0.3708

 77.9993, 0.2704,  
0.3612

 80.9251, 0.2797,  
0.3521

 84.3860, 0.2900,  
0.3437

 88.4089, 0.3011,  
0.3360

# Harmonies

## Analogous

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



69.7762, 0.3256, 0.4768



69.7762, 0.2507, 0.4226



69.7762, 0.1968, 0.3342

# Triad

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



69.7762, 0.2507, 0.4226



69.7762, 0.2176, 0.2063



69.7762, 0.4745, 0.3650

# Complementary

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



69.7762, 0.2507, 0.4226



20.1930, 0.5891, 0.3019

# 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.



69.7762, 0.4404, 0.3066



69.7762, 0.2507, 0.4226



69.7762, 0.2821, 0.2204

# Square

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



69.7762, 0.2507, 0.4226



69.7762, 0.1813, 0.2177



69.7762, 0.3654, 0.2558



69.7762, 0.4572, 0.4238



# Rectangle

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



69.7762, 0.2507, 0.4226



69.7762, 0.1780, 0.2810



69.7762, 0.3654, 0.2558



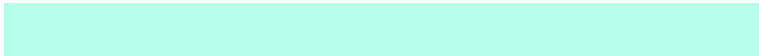
69.7762, 0.4690, 0.3451

# Sweetspot

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



69.7823, 0.2507, 0.4226



86.9814, 0.2797, 0.3521



67.8285, 0.3117, 0.5907



18.3189, 0.2756, 0.3559



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.



69.7823, 0.2507, 0.4226



75.0147, 0.2508, 0.4228



45.0730, 0.2045, 0.2563



18.6754, 0.3017, 0.3356



36.9278, 0.2502, 0.4209



3.2629, 0.2466, 0.4079



# Inverse Universe

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



20.1930, 0.5891, 0.3019



21.7046, 0.5895, 0.3021



22.3695, 0.6172, 0.3481



16.5575, 0.3250, 0.3225



10.6990, 0.5849, 0.2996

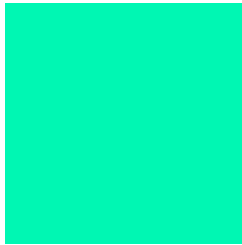


0.9570, 0.5496, 0.2801



# Previews

## White Background



This preview shows how the Yxy color 69.7762, 0.2507, 0.4226 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 69.7762, 0.2507, 0.4226 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

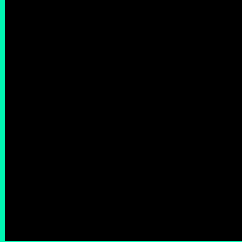
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 69.7762, 0.2507, 0.4226**

## **Background**



This preview shows how black text looks on a background with the Yxy color 69.7762, 0.2507, 0.4226.

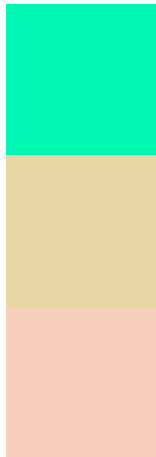


This preview shows how white text looks on a background with the Yxy color 69.7762, 0.2507, 0.4226.

# 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

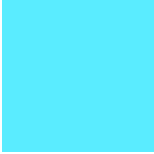
69.7762, 0.2507, 0.4226

### Protanopia

68.1042, 0.3602, 0.3855

### Deuteranopia

68.3354, 0.3570, 0.3503



## **Tritanopia**

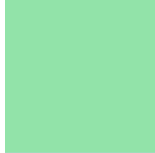
69.3846, 0.2303, 0.3058

# Trichromacy



## Original Color

69.7762, 0.2507, 0.4226



## Protanomaly

63.9137, 0.2945, 0.4050



## Deuteranomaly

62.9134, 0.2918, 0.3763



## Tritanomaly

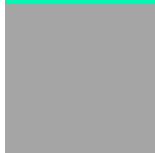
68.7361, 0.2348, 0.3455

# Monochromacy



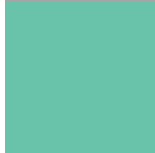
## Original Color

69.7762, 0.2507, 0.4226



## Achromatopsia

37.6262, 0.3127, 0.3290



## Achromatomaly

44.9358, 0.2661, 0.3668

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 69.7762, 0.2507, 0.4226 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, 247, 179)` looks like.

```
.text, #text, p{  
    color:rgb(0, 247, 179)  
}
```

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, 247, 179) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 247, 179) }
```

## Border

The CSS property to change the border of an element to Yxy 69.7762, 0.2507, 0.4226 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, 247, 179) }
```

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

```
.border{ border-color:rgb(0, 247, 179) }
```

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

Here you see how a box with a 4 pixel rgb(0, 247, 179) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 247, 179); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 247, 179);  
box-shadow:4px 4px 4px 4px rgb(0, 247,  
179) }
```



# Background

The CSS property to change the background color of an element to Yxy 69.7762, 0.2507, 0.4226 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 247, 179) }
```

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

```
.background{ background-color: rgb(0, 247,  
179) }
```

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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