

# Converting Colors

$Y_{xy}(76.3034, 0.1804, 0.1725)$

Have a look what the booklet for  
Yxy(76.3034, 0.1804, 0.1725)  
contains.

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# Color

**Yxy(62.7068, 0.2152, 0.2947)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00E4FF
RGB	0, 228, 255
RGB Percent	0%, 89%, 100%
CMY	1.0000, 0.1059, 0.0001
CMYK	1.00, 0.11, 0.00, 0.00
HSL	186°, 100%, 50%
HSV	186°, 100%, 100%
XYZ	45.7906, 62.7068, 104.2844
YIQ	162.9060, -144.5550, -39.9390

# Conversions

## Conversions Part 2

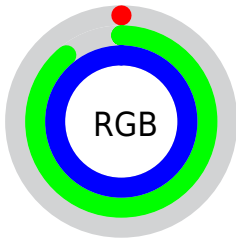
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 120, 255
Decimal	58623
CIELab	83.29, -36.00, -25.96
CIELCh	83, 44.381, 215.795
Yxy	62.7068, 0.2152, 0.2947
Android (android.graphics.Color)	4278248703 (0xFF00E4FF)
YUV	162.9060, 45.4023, -142.8686
Hunter-Lab	79.1876, -35.3598, -22.6493

# Details

The Yxy color **62.7068, 0.2152, 0.2947** is a light color, and the websafe version is hex **33CCCC**. The color can be described as light saturated cyan. A complement of this color would be **22.0403, 0.6333, 0.3353**, and the grayscale version is **36.4134, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.5219, 0.2436, 0.3288**, and **33.5823, 0.2130, 0.2867** is the 20% darker color. If you saturate the color by 10%, you get **62.7089, 0.2152, 0.2947**, and if you desaturate by 10%, it is **64.4183, 0.2175, 0.2983**.

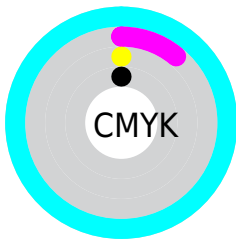
# Distribution



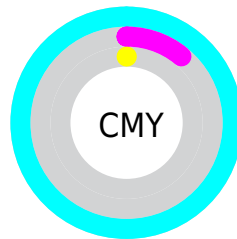
- Red (0%)
- Green (89%)
- Blue (100%)



- Red (0%)
- Yellow (47%)
- Blue (100%)



- Cyan (100%)
- Magenta (11%)
- Yellow (0%)
- Black (0%)




- Cyan (100%)
- Magenta (11%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 62.7068, 0.2152, 0.2947 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 62.7068, 0.2152, 0.2947 by changing the saturation by 10% instead.




 62.7068, 0.2152,  
0.2947

 62.7068, 0.2152,  
0.2947


434.5046, 0.2594,  
0.3125

 45.6041, 0.2055,  
0.2902


 108.7464, 0.2303,  
0.3012


 31.9335, 0.1936,  
0.2845


 138.4521, 0.2362,  
0.3037


 21.3107, 0.1791,  
0.2770


 173.1275, 0.2414,  
0.3057

 13.3513, 0.1607,  
0.2667

 213.1570, 0.2459,  
0.3075

 7.6709, 0.1373,  
0.2521

 258.9251, 0.2499,  
0.3090

 3.8851, 0.1068,  
0.2301

310.8161, 0.2534,

 1.6095, 0.0633,

0.3103

0.1960

369.2145, 0.2566,  
0.3115

■ 0.3640, 0.0000,  
0.1141

■ 0.0000, 0.0000,  
0.0000

■ 62.7068, 0.2152,  
0.2947

■ 62.7068, 0.2152,  
0.2947

■ 62.7089, 0.2152,  
0.2947

■ 64.4183, 0.2175,  
0.2983

■ 66.4284, 0.2213,  
0.3020

■ 68.8244, 0.2270,  
0.3057

■ 71.6583, 0.2346,  
0.3095

■ 74.9737, 0.2442,  
0.3131

■ 78.8088, 0.2555,  
0.3167

■ 83.1977, 0.2683,  
0.3201

■ 88.1717, 0.2823,  
0.3233

■ 93.7594, 0.2972,  
0.3263

# Harmonies

## Analogous

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



62.7068, 0.2395, 0.3494



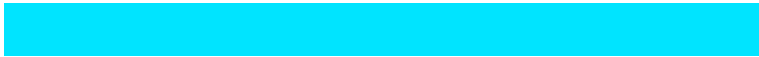
62.7068, 0.2152, 0.2947



62.7068, 0.2143, 0.2569

# Triad

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



62.7068, 0.2152, 0.2947



62.7068, 0.3350, 0.2688



62.7068, 0.3893, 0.4227

# Complementary

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



62.7068, 0.2152, 0.2947



22.0403, 0.6333, 0.3353

# 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.



62.7068, 0.4204, 0.3904



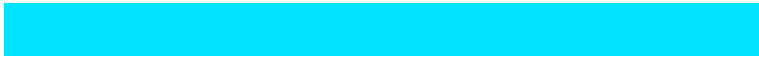
62.7068, 0.2152, 0.2947



62.7068, 0.3889, 0.3047

# Square

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



62.7068, 0.2152, 0.2947



62.7068, 0.2790, 0.2460



62.7068, 0.4211, 0.3477



62.7068, 0.3390, 0.4303

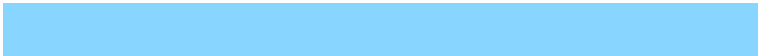


# Rectangle

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



62.7068, 0.2152, 0.2947



62.7068, 0.2266, 0.2439



62.7068, 0.4211, 0.3477



62.7068, 0.4024, 0.4139

# Sweetspot

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



62.7091, 0.2152, 0.2947



83.2080, 0.2683, 0.3201



71.5830, 0.2985, 0.5946



17.3989, 0.2628, 0.3187



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.



62.7091, 0.2152, 0.2947



62.7170, 0.2152, 0.2947



16.7210, 0.1675, 0.1228



20.1336, 0.2980, 0.3264



32.9037, 0.2154, 0.2953



3.2940, 0.2165, 0.2995



# Inverse Universe

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



26.8590, 0.3501, 0.1702



26.8625, 0.3501, 0.1702



44.0372, 0.5140, 0.4301



18.2653, 0.3154, 0.3080



14.0496, 0.3496, 0.1699

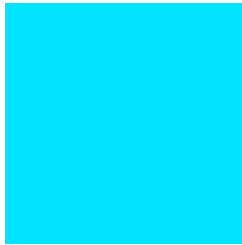


1.3771, 0.3459, 0.1679



# Previews

## White Background



This preview shows how the Yxy color 62.7068, 0.2152, 0.2947 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

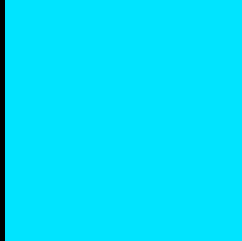
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 62.7068, 0.2152, 0.2947 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

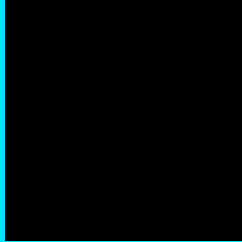
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 62.7068, 0.2152, 0.2947**

## **Background**



This preview shows how black text looks on a background with the Yxy color 62.7068, 0.2152, 0.2947.

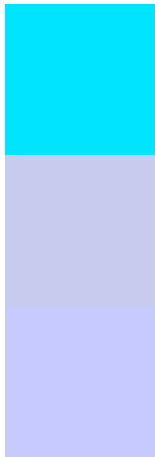


This preview shows how white text looks on a background with the Yxy color 62.7068, 0.2152, 0.2947.

# 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

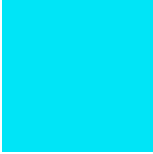
62.7068, 0.2152, 0.2947

### Protanopia

61.5598, 0.2856, 0.2895

### Deuteranopia

61.4668, 0.2750, 0.2707



## Tritanopia

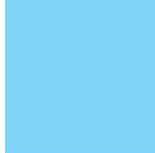
62.7540, 0.2182, 0.3057

# Trichromacy



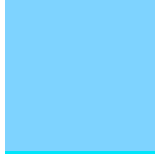
## Original Color

62.7068, 0.2152, 0.2947



## Protanomaly

58.6931, 0.2417, 0.2893



## Deuteranomaly

58.2442, 0.2363, 0.2755



## Tritanomaly

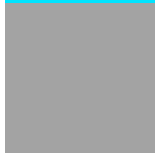
62.9408, 0.2172, 0.3020

# Monochromacy



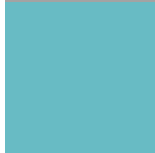
## Original Color

62.7068, 0.2152, 0.2947



## Achromatopsia

36.6253, 0.3127, 0.3290



## Achromatomaly

42.4692, 0.2485, 0.3156

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 62.7068, 0.2152, 0.2947 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, 228, 255)` looks like.

```
.text, #text, p{  
    color:rgb(0, 228, 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(0, 228, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 228, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 62.7068, 0.2152, 0.2947 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, 228, 255) }
```

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

```
.border{ border-color:rgb(0, 228, 255) }
```

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

Here you see how a box with a 4 pixel rgb(0, 228, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 228, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 228, 255);  
box-shadow:4px 4px 4px 4px rgb(0, 228,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 62.7068, 0.2152, 0.2947 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 228, 255) }
```

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

```
.background{ background-color: rgb(0, 228,  
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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