

# Converting Colors

$Y_{xy}(56.2621, 0.1803, 0.3328)$

Have a look what the booklet for  
Yxy(56.2621, 0.1803, 0.3328)  
contains.

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# Color

**Yxy(62.1951, 0.2254, 0.3314)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00E6E4
RGB	0, 230, 228
RGB Percent	0%, 90%, 89%
CMY	0.9994, 0.0980, 0.1059
CMYK	1.00, 0.00, 0.01, 0.10
HSL	179°, 100%, 45%
HSV	179°, 100%, 90%
XYZ	42.3017, 62.1951, 83.1770
YIQ	161.0020, -136.4380, -49.3820

# Conversions

## Conversions Part 2

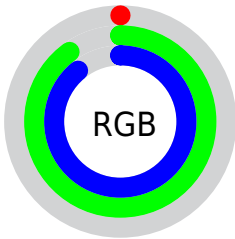
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 116, 230
Decimal	59108
CIELab	83.02, -45.05, -12.11
CIELCh	83, 46.649, 195.046
Yxy	62.1951, 0.2254, 0.3314
Android (android.graphics.Color)	4278249188 (0xFF00E6E4)
YUV	161.0020, 33.0300, -141.1988
Hunter-Lab	78.8639, -42.2664, -7.3279

# Details

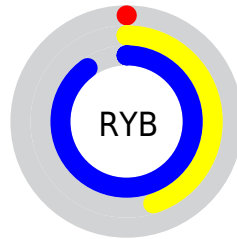
The Yxy color **62.1951, 0.2254, 0.3314** is a light color, and the websafe version is hex **33FFFF**. The color can be described as light washed cyan. A complement of this color would be **16.8312, 0.6393, 0.3296**, and the grayscale version is **35.5549, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.3174, 0.2426, 0.3288**, and **33.2892, 0.2251, 0.3305** is the 20% darker color. If you saturate the color by 10%, you get **62.1964, 0.2254, 0.3314**, and if you desaturate by 10%, it is **62.3915, 0.2265, 0.3311**.

# Distribution



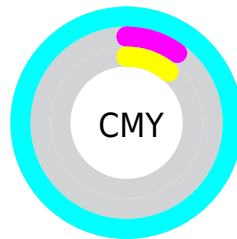
- Red (0%)
- Green (90%)
- Blue (89%)



- Red (0%)
- Yellow (45%)
- Blue (90%)



- Cyan (100%)
- Magenta (0%)
- Yellow (1%)
- Black (10%)




- Cyan (100%)
- Magenta (10%)
- Yellow (11%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 62.1951, 0.2254, 0.3314 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 62.1951, 0.2254, 0.3314 by changing the saturation by 10% instead.



 62.1951, 0.2254,  
0.3314

 62.1951, 0.2254,  
0.3314


432.6424, 0.2657,  
0.3316


 45.1904, 0.2163,  
0.3310


 108.0075, 0.2393,  
0.3317


 31.6074, 0.2052,  
0.3304


 137.5839, 0.2447,  
0.3318

 21.0618, 0.1912,  
0.3293


 172.1196, 0.2494,  
0.3318

 13.1692, 0.1734,  
0.3273

 211.9991, 0.2535,  
0.3317

 7.5452, 0.1498,  
0.3236

 257.6067, 0.2571,  
0.3317

 3.8053, 0.1180,  
0.3163

309.3269, 0.2603,

 1.5653, 0.0529,

0.3317

0.3069

367.5440, 0.2631,  
0.3316

■ 0.3340, 0.0000,  
0.2133

■ 0.0000, 0.0000,  
0.0000

■ 62.1951, 0.2254,  
0.3314

■ 62.1951, 0.2254,  
0.3314

■ 62.1964, 0.2254,  
0.3314

■ 62.3915, 0.2265,  
0.3311

■ 62.8029, 0.2291,  
0.3309

■ 63.5004, 0.2335,  
0.3306

■ 64.5238, 0.2398,  
0.3303

■ 65.9069, 0.2480,  
0.3301

■ 67.6791, 0.2582,  
0.3298

■ 69.8669, 0.2699,  
0.3296

■ 72.4943, 0.2832,  
0.3294

■ 75.5836, 0.2976,  
0.3292

# Harmonies

## Analogous

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



62.1951, 0.2662, 0.3915



62.1951, 0.2254, 0.3314



62.1951, 0.2076, 0.2780

# Triad

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



62.1951, 0.2254, 0.3314



62.1951, 0.2944, 0.2477



62.1951, 0.4188, 0.4053

# Complementary

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



62.1951, 0.2254, 0.3314



16.8312, 0.6393, 0.3296

# 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.



62.1951, 0.4305, 0.3624



62.1951, 0.2254, 0.3314



62.1951, 0.3548, 0.2762

# Square

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



62.1951, 0.2254, 0.3314



62.1951, 0.2443, 0.2363



62.1951, 0.4068, 0.3167



62.1951, 0.3781, 0.4336



# Rectangle

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



62.1951, 0.2254, 0.3314



62.1951, 0.2094, 0.2538



62.1951, 0.4068, 0.3167



62.1951, 0.4264, 0.3919

# Sweetspot

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



62.1974, 0.2254, 0.3314



88.2215, 0.2697, 0.3296



56.6207, 0.3003, 0.5997



18.6191, 0.2645, 0.3297



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.



62.1974, 0.2254, 0.3314



78.5982, 0.2254, 0.3314



18.8853, 0.1781, 0.1612



16.3341, 0.2983, 0.3292



35.2124, 0.2254, 0.3314



2.6028, 0.2253, 0.3310



# Inverse Universe

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



16.8312, 0.6393, 0.3296



21.2649, 0.6395, 0.3296



28.2457, 0.5476, 0.4034



14.3700, 0.3291, 0.3288



9.5276, 0.6391, 0.3294

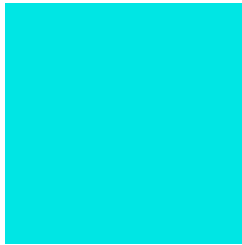


0.7048, 0.6364, 0.3279



# Previews

## White Background



This preview shows how the Yxy color 62.1951, 0.2254, 0.3314 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

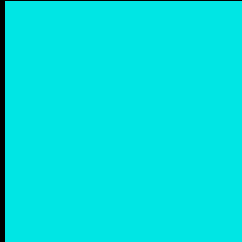
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 62.1951, 0.2254, 0.3314 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

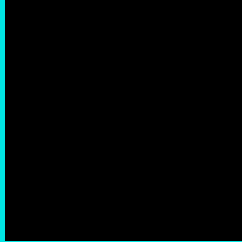
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 62.1951, 0.2254, 0.3314**

## **Background**



This preview shows how black text looks on a background with the Yxy color 62.1951, 0.2254, 0.3314.

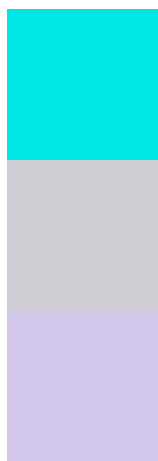


This preview shows how white text looks on a background with the Yxy color 62.1951, 0.2254, 0.3314.

# 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

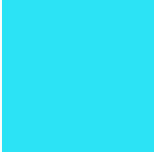
62.1951, 0.2254, 0.3314

### Protanopia

61.2046, 0.3094, 0.3198

### Deuteranopia

61.1556, 0.2966, 0.2901



## Tritanopia

62.1275, 0.2212, 0.3044

# Trichromacy



## Original Color

62.1951, 0.2254, 0.3314



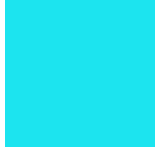
## Protanomaly

57.5560, 0.2575, 0.3224



## Deuteranomaly

57.4831, 0.2509, 0.3024



## Tritanomaly

61.9657, 0.2223, 0.3144

# Monochromacy



## Original Color

62.1951, 0.2254, 0.3314



## Achromatopsia

35.6400, 0.3127, 0.3290



## Achromatomaly

41.5042, 0.2540, 0.3303

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 62.1951, 0.2254, 0.3314 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, 230, 228)` looks like.

```
.text, #text, p{  
    color:rgb(0, 230, 228)  
}
```

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, 230, 228) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 230, 228) }
```

## Border

The CSS property to change the border of an element to Yxy 62.1951, 0.2254, 0.3314 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, 230, 228) }
```

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

```
.border{ border-color:rgb(0, 230, 228) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 230, 228)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 230, 228); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 230, 228);  
box-shadow:4px 4px 4px 4px rgb(0, 230,  
228) }
```



# Background

The CSS property to change the background color of an element to Yxy 62.1951, 0.2254, 0.3314 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 230, 228) }
```

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

```
.background{ background-color: rgb(0, 230,  
228) }
```

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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