

# Converting Colors

$Yxy(62.1470, 0.2078, 0.3225)$

Have a look what the booklet for  
Yxy(62.1470, 0.2078, 0.3225)  
contains.

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# Color

**Yxy(64.4509, 0.2229, 0.3223)**

# Conversions

## Conversions Part 1

Format	Color
Hex	01E9EE
RGB	1, 233, 238
RGB Percent	0%, 91%, 93%
CMY	0.9967, 0.0863, 0.0668
CMYK	1.00, 0.02, 0.00, 0.07
HSL	181°, 99%, 47%
HSV	181°, 100%, 93%
XYZ	44.5737, 64.4509, 90.9472
YIQ	164.2020, -139.8770, -47.6290

# Conversions

## Conversions Part 2

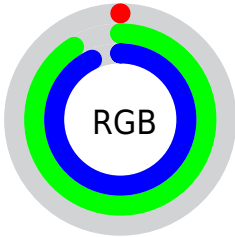
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	1, 118, 238
Decimal	125422
CIE <sub>Lab</sub>	84.20, -43.43, -15.59
CIE <sub>LCh</sub>	84, 46.148, 199.751
Yxy	64.4509, 0.2229, 0.3223
Android (android.graphics.Color)	4278315502 (0xFF01E9EE)
YUV	164.2020, 36.3824, -143.1282
Hunter-Lab	80.2813, -41.3857, -10.9701

# Details

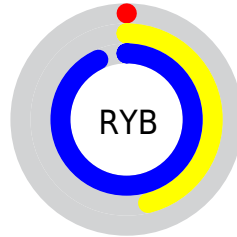
The Yxy color **64.4509, 0.2229, 0.3223** is a light color, and the websafe version is hex **33FFFF**. The color can be described as light washed cyan. A complement of this color would be **18.2977, 0.6385, 0.3308**, and the grayscale version is **37.0716, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.4530, 0.2433, 0.3288**, and **34.8217, 0.2223, 0.3204** is the 20% darker color. If you saturate the color by 10%, you get **64.4380, 0.2229, 0.3223**, and if you desaturate by 10%, it is **64.9321, 0.2243, 0.3230**.

# Distribution



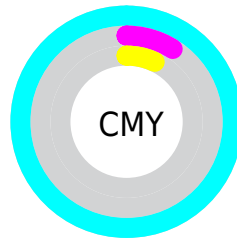
- Red (0%)
- Green (91%)
- Blue (93%)



- Red (0%)
- Yellow (46%)
- Blue (93%)



- Cyan (100%)
- Magenta (2%)
- Yellow (0%)
- Black (7%)




- Cyan (100%)
- Magenta (9%)
- Yellow (7%)

# Brightness & Saturation Gradients


These gradients show how the Yxy color 64.4509, 0.2229, 0.3223 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 64.4509, 0.2229, 0.3223 by changing the saturation by 10% instead.





 64.4509, 0.2229,  
0.3223


 64.4509, 0.2229,  
0.3223


 440.8161, 0.2639,  
0.3269

 47.0160, 0.2138,  
0.3209


 111.2601, 0.2370,  
0.3242


 33.0483, 0.2026,  
0.3189

 141.4031, 0.2425,  
0.3249


 22.1634, 0.1888,  
0.3161


 176.5509, 0.2473,  
0.3254

 13.9770, 0.1711,  
0.3119

 217.0879, 0.2514,  
0.3258

 8.1047, 0.1482,  
0.3053

 263.3986, 0.2551,  
0.3262

 4.1620, 0.1176,  
0.2940

 315.8672, 0.2584,

 1.7646, 0.0676,

0.3264

0.2751

374.8783, 0.2613,  
0.3267

■ 0.4650, 0.0000,  
0.2104

■ 0.0000, 0.0000,  
0.0000

■ 64.4509, 0.2229,  
0.3223

■ 64.4509, 0.2229,  
0.3223

■ 64.4380, 0.2229,  
0.3223

■ 64.9321, 0.2243,  
0.3230

■ 65.6520, 0.2272,  
0.3237

■ 66.6833, 0.2319,  
0.3244

■ 68.0694, 0.2386,  
0.3251

69.8469, 0.2472,  
0.3258

72.0476, 0.2576,  
0.3265

74.7001, 0.2697,  
0.3272

77.8308, 0.2832,  
0.3278

81.4636, 0.2978,  
0.3284

# Harmonies

## Analogous

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



64.4509, 0.2598, 0.3814



64.4509, 0.2229, 0.3223



64.4509, 0.2092, 0.2727

# Triad

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



64.4509, 0.2229, 0.3223



64.4509, 0.3038, 0.2527



64.4509, 0.4119, 0.4095

# Complementary

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



64.4509, 0.2229, 0.3223



18.2977, 0.6385, 0.3308

# 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.



64.4509, 0.4284, 0.3689



64.4509, 0.2229, 0.3223



64.4509, 0.3630, 0.2829

# Square

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



64.4509, 0.2229, 0.3223



64.4509, 0.2523, 0.2386



64.4509, 0.4105, 0.3240



64.4509, 0.3688, 0.4333



# Rectangle

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



64.4509, 0.2229, 0.3223



64.4509, 0.2134, 0.2513



64.4509, 0.4105, 0.3240



64.4509, 0.4209, 0.3971

# Sweetspot

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



64.4533, 0.2229, 0.3223



87.2475, 0.2691, 0.3272



61.1411, 0.2998, 0.5990



18.3815, 0.2639, 0.3269



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.



64.4533, 0.2229, 0.3223



75.3838, 0.2229, 0.3223



18.5394, 0.1751, 0.1502



17.8689, 0.2981, 0.3285



35.9894, 0.2229, 0.3224



3.0119, 0.2231, 0.3233



# Inverse Universe

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



24.0713, 0.3263, 0.1572



28.1412, 0.3263, 0.1571



32.4247, 0.5374, 0.4112



16.0254, 0.3141, 0.3062



13.4265, 0.3262, 0.1571

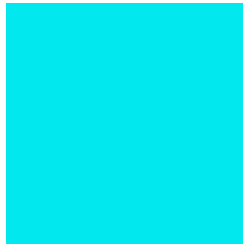


1.1188, 0.3255, 0.1567



# Previews

## White Background



This preview shows how the Yxy color 64.4509, 0.2229, 0.3223 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

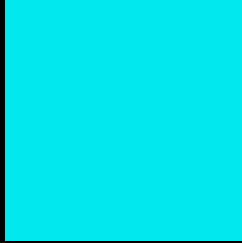
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 64.4509, 0.2229, 0.3223 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

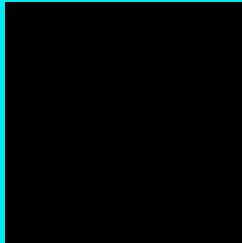
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 64.4509, 0.2229, 0.3223**

## **Background**



This preview shows how black text looks on a background with the Yxy color 64.4509, 0.2229, 0.3223.

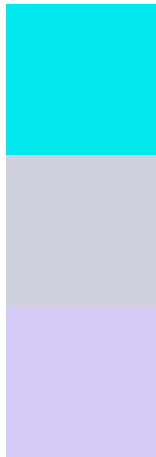


This preview shows how white text looks on a background with the Yxy color 64.4509, 0.2229, 0.3223.

# 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

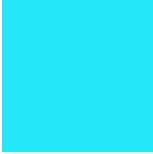
64.4573, 0.2229, 0.3223

### Protanopia

63.3095, 0.3031, 0.3120

### Deuteranopia

63.1533, 0.2901, 0.2832



## Tritanopia

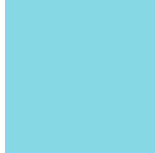
64.4473, 0.2203, 0.3048

# Trichromacy



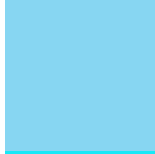
## Original Color

64.4573, 0.2229, 0.3223



## Protanomaly

59.6997, 0.2534, 0.3137



## Deuteranomaly

59.6548, 0.2471, 0.2944



## Tritanomaly

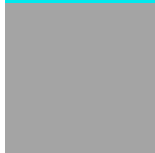
64.5612, 0.2209, 0.3109

# Monochromacy



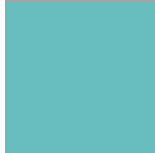
## Original Color

64.4573, 0.2229, 0.3223



## Achromatopsia

37.1238, 0.3127, 0.3290



## Achromatomaly

43.1600, 0.2524, 0.3259

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 64.4509, 0.2229, 0.3223 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(1, 233, 238)` looks like.

```
.text, #text, p{  
    color:rgb(1, 233, 238)  
}
```

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(1, 233, 238) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(1, 233, 238) }
```

## Border

The CSS property to change the border of an element to Yxy 64.4509, 0.2229, 0.3223 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(1, 233, 238) }
```

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

```
.border{ border-color:rgb(1, 233, 238) }
```

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

Here you see how a box with a 4 pixel rgb(1, 233, 238) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(1, 233, 238); -webkit-box-  
shadow:4px 4px 4px 4px rgb(1, 233, 238);  
box-shadow:4px 4px 4px 4px rgb(1, 233,  
238) }
```



# Background

The CSS property to change the background color of an element to Yxy 64.4509, 0.2229, 0.3223 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(1, 233, 238) }
```

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

```
.background{ background-color: rgb(1, 233,  
238) }
```

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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