

# Converting Colors

$Yxy(68.6260, 0.2342, 0.3632)$

Have a look what the booklet for  
Yxy(68.6260, 0.2342, 0.3632)  
contains.

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# Color

**Yxy(68.4621, 0.2342, 0.3633)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00F2D8
RGB	0, 242, 216
RGB Percent	0%, 95%, 85%
CMY	1.0000, 0.0509, 0.1530
CMYK	1.00, 0.00, 0.11, 0.05
HSL	174°, 100%, 47%
HSV	174°, 100%, 95%
XYZ	44.1338, 68.4621, 75.8491
YIQ	166.6780, -135.8860, -59.3900

# Conversions

## Conversions Part 2

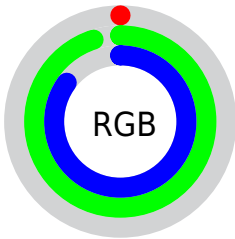
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">0, 128, 242</a>
Decimal	<a href="#">62168</a>
CIELab	<a href="#">86.24, -53.50, -1.02</a>
CIELCh	<a href="#">86, 53.505, 181.096</a>
Yxy	<a href="#">68.4621, 0.2342, 0.3633</a>
Android (android.graphics.Color)	<a href="#">4278252248 (0xFF00F2D8)</a>
YUV	<a href="#">166.6780, 24.3157, -146.1766</a>
Hunter-Lab	<a href="#">82.7418, -49.5877, 3.5683</a>

# Details

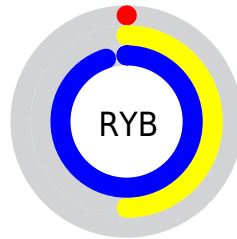
The Yxy color **68.4621, 0.2342, 0.3633** is a light color, and the websafe version is hex **33FFCC**. The color can be described as light saturated cyan. A complement of this color would be **18.9552, 0.6296, 0.3242**, and the grayscale version is **38.4129, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.3848, 0.2430, 0.3288**, and **37.2711, 0.2361, 0.3701** is the 20% darker color. If you saturate the color by 10%, you get **68.4728, 0.2343, 0.3633**, and if you desaturate by 10%, it is **68.8052, 0.2345, 0.3596**.

# Distribution



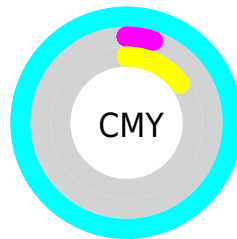
- Red (0%)
- Green (95%)
- Blue (85%)



- Red (0%)
- Yellow (50%)
- Blue (95%)



- Cyan (100%)
- Magenta (0%)
- Yellow (11%)
- Black (5%)



- Cyan (100%)
- Magenta (5%)
- Yellow (15%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 68.4621, 0.2342, 0.3633 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 68.4621, 0.2342, 0.3633 by changing the saturation by 10% instead.





 68.4621, 0.2342,  
0.3633

 68.4621, 0.2342,  
0.3633

455.1315, 0.2704,  
0.3476


 50.2738, 0.2260,  
0.3668


 117.0130, 0.2467,  
0.3579

 35.6310, 0.2159,  
0.3711


 148.1443, 0.2516,  
0.3558

 24.1493, 0.2033,  
0.3765

 184.3587, 0.2558,  
0.3539

 15.4444, 0.1870,  
0.3834

 226.0407, 0.2595,  
0.3524

 9.1319, 0.1653,  
0.3925

 273.5745, 0.2627,  
0.3509

 4.8273, 0.1355,  
0.4048

327.3447, 0.2656,

 2.1463, 0.0802,

0.3497

0.4278

387.7356, 0.2681,  
0.3486

■ 0.6905, 0.0000,  
0.4561

■ 0.0000, 0.0000,  
0.0000

■ 68.4621, 0.2342,  
0.3633

■ 68.4621, 0.2342,  
0.3633

■ 68.4728, 0.2343,  
0.3633

■ 68.8052, 0.2345,  
0.3596

■ 69.3846, 0.2363,  
0.3559

■ 70.2874, 0.2400,  
0.3521

■ 71.5593, 0.2456,  
0.3484

■ 73.2384, 0.2532,  
0.3447

■ 75.3582, 0.2625,  
0.3412

■ 77.9487, 0.2734,  
0.3378

■ 81.0372, 0.2856,  
0.3346

■ 84.6490, 0.2988,  
0.3317

# Harmonies

## Analogous

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



68.4621, 0.2881, 0.4246



68.4621, 0.2342, 0.3633



68.4621, 0.2029, 0.2968

# Triad

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



68.4621, 0.2342, 0.3633



68.4621, 0.2642, 0.2316



68.4621, 0.4407, 0.3908

# Complementary

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



68.4621, 0.2342, 0.3633



18.9552, 0.6296, 0.3242

# 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.



68.4621, 0.4362, 0.3411



68.4621, 0.2342, 0.3633



68.4621, 0.3276, 0.2545

# Square

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



68.4621, 0.2342, 0.3633



68.4621, 0.2191, 0.2289



68.4621, 0.3930, 0.2932



68.4621, 0.4083, 0.4326



# Rectangle

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



68.4621, 0.2342, 0.3633



68.4621, 0.1968, 0.2627



68.4621, 0.3930, 0.2932



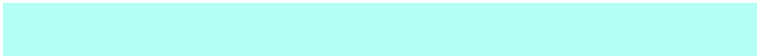
68.4621, 0.4438, 0.3745

# Sweetspot

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



68.4728, 0.2343, 0.3633



87.7457, 0.2733, 0.3378



63.7655, 0.3024, 0.5981



18.5034, 0.2685, 0.3392



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.



68.4728, 0.2343, 0.3633



77.0981, 0.2343, 0.3634



27.9843, 0.1878, 0.1960



17.8980, 0.2995, 0.3315



36.7902, 0.2341, 0.3627



3.0689, 0.2327, 0.3578



# Inverse Universe

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



18.9552, 0.6296, 0.3242



21.3411, 0.6300, 0.3244



26.6695, 0.5772, 0.3799



15.7865, 0.3276, 0.3265



10.1906, 0.6272, 0.3229

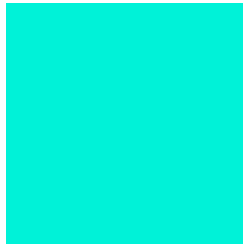


0.8569, 0.6012, 0.3086



# Previews

## White Background



This preview shows how the Yxy color 68.4621, 0.2342, 0.3633 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

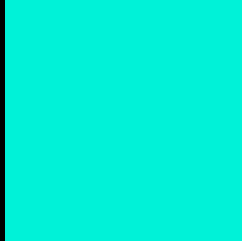
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 68.4621, 0.2342, 0.3633 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

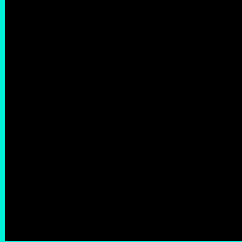
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

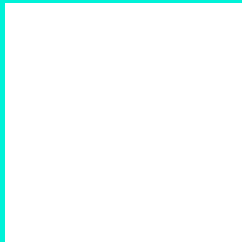
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 68.4621, 0.2342, 0.3633**

## **Background**



This preview shows how black text looks on a background with the Yxy color 68.4621, 0.2342, 0.3633.



This preview shows how white text looks on a background with the Yxy color 68.4621, 0.2342, 0.3633.

# 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

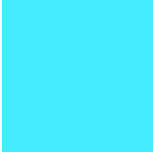
68.4621, 0.2342, 0.3633

### Protanopia

67.1308, 0.3277, 0.3436

### Deuteranopia

66.8305, 0.3181, 0.3108



## **Tritanopia**

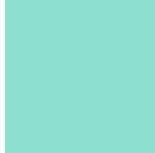
68.4398, 0.2251, 0.3055

# Trichromacy



## Original Color

68.4621, 0.2342, 0.3633



## Protanomaly

63.4303, 0.2706, 0.3519



## Deuteranomaly

62.5178, 0.2646, 0.3276



## Tritanomaly

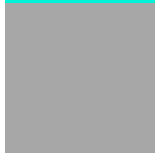
68.0135, 0.2267, 0.3249

# Monochromacy



## Original Color

68.4621, 0.2342, 0.3633



## Achromatopsia

38.6429, 0.3127, 0.3290



## Achromatomaly

45.1505, 0.2576, 0.3421

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 68.4621, 0.2342, 0.3633 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, 242, 216)` looks like.

```
.text, #text, p{  
  color:rgb(0, 242, 216)  
}
```

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, 242, 216) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 242, 216) }
```

## Border

The CSS property to change the border of an element to Yxy 68.4621, 0.2342, 0.3633 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, 242, 216) }
```

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

```
.border{ border-color:rgb(0, 242, 216) }
```

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

Here you see how a box with a 4 pixel rgb(0, 242, 216) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 242, 216); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 242, 216);  
box-shadow:4px 4px 4px 4px rgb(0, 242,  
216) }
```



# Background

The CSS property to change the background color of an element to Yxy 68.4621, 0.2342, 0.3633 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 242, 216) }
```

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

```
.background{ background-color: rgb(0, 242,  
216) }
```

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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