

# Converting Colors

$Y_{xy}(63.9014, 0.2335, 0.3606)$

Have a look what the booklet for  
Yxy(63.9014, 0.2335, 0.3606)  
contains.

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# Color

**Yxy(64.1198, 0.2337, 0.3614)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00EBD3
RGB	0, 235, 211
RGB Percent	0%, 92%, 83%
CMY	1.0000, 0.0784, 0.1724
CMYK	1.00, 0.00, 0.10, 0.08
HSL	174°, 100%, 46%
HSV	174°, 100%, 92%
XYZ	41.4632, 64.1198, 71.8376
YIQ	161.9990, -132.3560, -57.2840

# Conversions

## Conversions Part 2

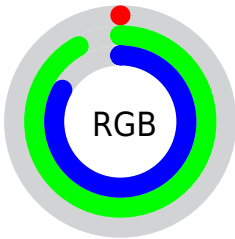
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 124, 235
Decimal	60371
CIELab	84.03, -51.95, -1.65
CIElCh	84, 51.973, 181.818
Yxy	64.1198, 0.2337, 0.3614
Android (android.graphics.Color)	4278250451 (0xFF00EBD3)
YUV	161.9990, 24.1575, -142.0731
Hunter-Lab	80.0748, -47.7027, 2.8615

# Details

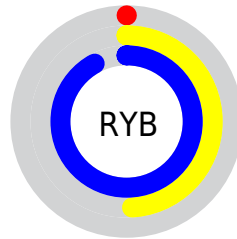
The Yxy color **64.1198, 0.2337, 0.3614** is a light color, and the websafe version is hex **00FFFF**. The color can be described as light washed cyan. A complement of this color would be **17.7294, 0.6302, 0.3245**, and the grayscale version is **36.0657, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.2507, 0.2423, 0.3288**, and **34.2751, 0.2350, 0.3660** is the 20% darker color. If you saturate the color by 10%, you get **64.1260, 0.2337, 0.3614**, and if you desaturate by 10%, it is **64.4353, 0.2341, 0.3579**.

# Distribution



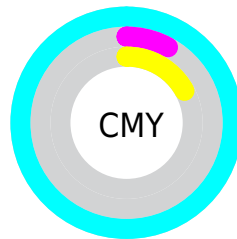
- Red (0%)
- Green (92%)
- Blue (83%)



- Red (0%)
- Yellow (49%)
- Blue (92%)



- Cyan (100%)
- Magenta (0%)
- Yellow (10%)
- Black (8%)




- Cyan (100%)
- Magenta (8%)
- Yellow (17%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 64.1198, 0.2337, 0.3614 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 64.1198, 0.2337, 0.3614 by changing the saturation by 10% instead.




 64.1198, 0.2337,  
0.3614


 64.1198, 0.2337,  
0.3614


439.6221, 0.2705,  
0.3465

 46.7477, 0.2253,  
0.3648

 110.7834, 0.2465,  
0.3562

 32.8363, 0.2149,  
0.3689


 140.8438, 0.2515,  
0.3542


 22.0010, 0.2017,  
0.3741


 175.9024, 0.2558,  
0.3525

 13.8577, 0.1847,  
0.3807

 216.3435, 0.2595,  
0.3510

 8.0217, 0.1619,  
0.3894

 262.5517, 0.2628,  
0.3497

 4.1089, 0.1302,  
0.4011

314.9113, 0.2657,

 1.7346, 0.0518,

0.3485

0.4318

373.8066, 0.2682,  
0.3474

■ 0.4459, 0.0000,  
0.4260

■ 0.0000, 0.0000,  
0.0000

■ 64.1198, 0.2337,  
0.3614

■ 64.1198, 0.2337,  
0.3614

■ 64.1260, 0.2337,  
0.3614

■ 64.4353, 0.2341,  
0.3579

■ 64.9745, 0.2359,  
0.3544

■ 65.8158, 0.2397,  
0.3508

■ 67.0015, 0.2453,  
0.3473

68.5670, 0.2529,  
0.3439

70.5435, 0.2623,  
0.3405

72.9589, 0.2733,  
0.3373

75.8386, 0.2855,  
0.3343

79.2062, 0.2987,  
0.3315

# Harmonies

## Analogous

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



64.1198, 0.2869, 0.4227



64.1198, 0.2337, 0.3614



64.1198, 0.2032, 0.2957

# Triad

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



64.1198, 0.2337, 0.3614



64.1198, 0.2658, 0.2325



64.1198, 0.4395, 0.3916

# Complementary

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



64.1198, 0.2337, 0.3614



17.7294, 0.6302, 0.3245

# 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.



64.1198, 0.4359, 0.3423



64.1198, 0.2337, 0.3614



64.1198, 0.3291, 0.2558

# Square

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



64.1198, 0.2337, 0.3614



64.1198, 0.2205, 0.2293



64.1198, 0.3938, 0.2946



64.1198, 0.4066, 0.4327



# Rectangle

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



64.1198, 0.2337, 0.3614



64.1198, 0.1976, 0.2622



64.1198, 0.3938, 0.2946



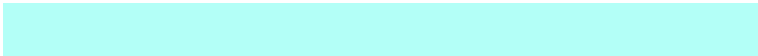
64.1198, 0.4428, 0.3755

# Sweetspot

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



64.1260, 0.2337, 0.3614



87.7717, 0.2731, 0.3374



59.6601, 0.3025, 0.5980



18.5097, 0.2683, 0.3387



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.



64.1260, 0.2337, 0.3614



77.1761, 0.2338, 0.3616



26.2255, 0.1878, 0.1962



17.0939, 0.2995, 0.3314



35.6973, 0.2336, 0.3608



2.8108, 0.2322, 0.3560



# Inverse Universe

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



17.7294, 0.6302, 0.3245



21.3347, 0.6308, 0.3249



24.9905, 0.5769, 0.3801



15.0790, 0.3277, 0.3266



9.8750, 0.6280, 0.3233

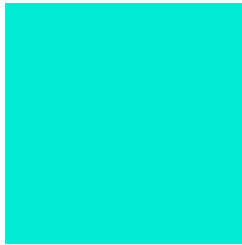


0.7838, 0.6016, 0.3088



# Previews

## White Background



This preview shows how the Yxy color 64.1198, 0.2337, 0.3614 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

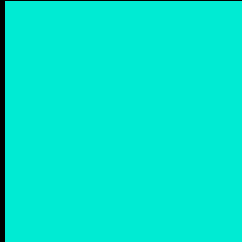
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 64.1198, 0.2337, 0.3614 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

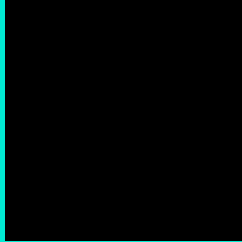
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

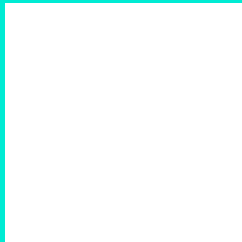
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 64.1198, 0.2337, 0.3614**

## **Background**



This preview shows how black text looks on a background with the Yxy color 64.1198, 0.2337, 0.3614.

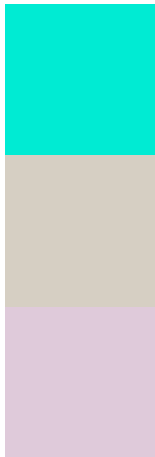


This preview shows how white text looks on a background with the Yxy color 64.1198, 0.2337, 0.3614.

# 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

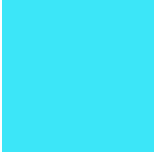
64.1198, 0.2337, 0.3614

### Protanopia

62.8619, 0.3266, 0.3428

### Deuteranopia

62.9910, 0.3174, 0.3114



## **Tritanopia**

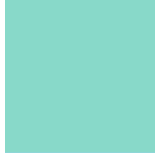
64.3316, 0.2241, 0.3061

# Trichromacy



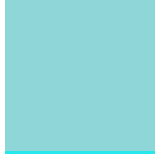
## Original Color

64.1198, 0.2337, 0.3614



## Protanomaly

59.0770, 0.2695, 0.3499



## Deuteranomaly

58.7502, 0.2647, 0.3276



## Tritanomaly

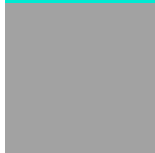
64.1235, 0.2262, 0.3248

# Monochromacy



## Original Color

64.1198, 0.2337, 0.3614



## Achromatopsia

36.1307, 0.3127, 0.3290



## Achromatomaly

42.5740, 0.2577, 0.3425

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 64.1198, 0.2337, 0.3614 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, 235, 211)` looks like.

```
.text, #text, p{  
    color:rgb(0, 235, 211)  
}
```

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, 235, 211) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 235, 211) }
```

## Border

The CSS property to change the border of an element to Yxy 64.1198, 0.2337, 0.3614 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, 235, 211) }
```

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

```
.border{ border-color:rgb(0, 235, 211) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 235, 211)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 235, 211); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 235, 211);  
box-shadow:4px 4px 4px 4px rgb(0, 235,  
211) }
```



# Background

The CSS property to change the background color of an element to Yxy 64.1198, 0.2337, 0.3614 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 235, 211) }
```

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

```
.background{ background-color: rgb(0, 235,  
211) }
```

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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