

# Converting Colors

$Y_{xy}(42.1957, 0.2218, 0.3185)$

Have a look what the booklet for  
Yxy(42.1957, 0.2218, 0.3185)  
contains.

<b>Yxy(42.2634, 0.2221, 0.3195)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

# Color

**Yxy(42.2634, 0.2221, 0.3195)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00C1C7
RGB	0, 193, 199
RGB Percent	0%, 76%, 78%
CMY	0.9993, 0.2431, 0.2196
CMYK	1.00, 0.03, 0.00, 0.22
HSL	182°, 100%, 39%
HSV	182°, 100%, 78%
XYZ	29.3793, 42.2634, 60.6371
YIQ	135.9770, -116.9540, -39.0500

# Conversions

## Conversions Part 2

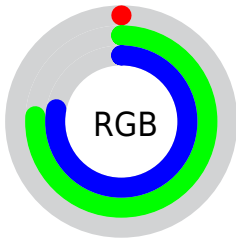
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 98, 199
Decimal	49607
CIELab	71.05, -37.16, -14.46
CIELCh	71, 39.870, 201.260
Yxy	42.2634, 0.2221, 0.3195
Android (android.graphics.Color)	4278239687 (0xFF00C1C7)
YUV	135.9770, 31.0703, -119.2518
Hunter-Lab	65.0103, -33.1006, -9.7943

# Details

The Yxy color **42.2634, 0.2221, 0.3195** is a dark color, and the websafe version is hex **33CCCC**. The color can be described as middle washed cyan. A complement of this color would be **12.2758, 0.6379, 0.3316**, and the grayscale version is **24.5481, 0.3127, 0.3290**.

A 20% lighter version of the original color is **78.5343, 0.2383, 0.3229**, and **20.5096, 0.2212, 0.3163** is the 20% darker color. If you saturate the color by 10%, you get **42.2612, 0.2221, 0.3195**, and if you desaturate by 10%, it is **42.6791, 0.2238, 0.3205**.

# Distribution



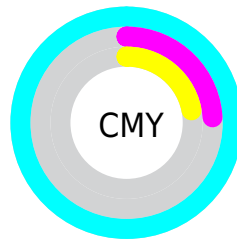
- Red (0%)
- Green (76%)
- Blue (78%)



- Red (0%)
- Yellow (38%)
- Blue (78%)



- Cyan (100%)
- Magenta (3%)
- Yellow (0%)
- Black (22%)




- Cyan (100%)
- Magenta (24%)
- Yellow (22%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 42.2634, 0.2221, 0.3195 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 42.2634, 0.2221, 0.3195 by changing the saturation by 10% instead.





 42.2634, 0.2221,  
0.3195


 42.2634, 0.2221,  
0.3195

355.5737, 0.2666,  
0.3258


 29.3076, 0.2114,  
0.3174


 78.5981, 0.2380,  
0.3222


 19.3136, 0.1978,  
0.3145


 102.7458, 0.2441,  
0.3230


 11.8971, 0.1803,  
0.3101


 131.3929, 0.2492,  
0.3238

 6.6737, 0.1570,  
0.3031

 164.9239, 0.2537,  
0.3243

 3.2589, 0.1249,  
0.2909

 203.7230, 0.2575,  
0.3248

 1.2683, 0.0553,  
0.2740

248.1748, 0.2609,

 0.1165, 0.0000,

0.3252

0.0921

298.6635, 0.2639,  
0.3255

0.0000, 0.0000,  
0.0000

42.2634, 0.2221,  
0.3195

42.2634, 0.2221,  
0.3195

42.2612, 0.2221,  
0.3195

42.6791, 0.2238,  
0.3205

43.2471, 0.2269,  
0.3215

44.0213, 0.2317,  
0.3225

45.0293, 0.2385,  
0.3235

46.2946, 0.2472,  
0.3245

■ 47.8378, 0.2577,  
0.3255

■ 49.6773, 0.2697,  
0.3264

■ 51.8300, 0.2831,  
0.3274

■ 54.3117, 0.2976,  
0.3282

# Harmonies

## Analogous

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



42.2634, 0.2577, 0.3783



42.2634, 0.2221, 0.3195



42.2634, 0.2096, 0.2711

# Triad

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



42.2634, 0.2221, 0.3195



42.2634, 0.3068, 0.2542



42.2634, 0.4097, 0.4109

# Complementary

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



42.2634, 0.2221, 0.3195



12.2758, 0.6379, 0.3316

# 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.



42.2634, 0.4277, 0.3710



42.2634, 0.2221, 0.3195



42.2634, 0.3655, 0.2850

# Square

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



42.2634, 0.2221, 0.3195



42.2634, 0.2548, 0.2393



42.2634, 0.4116, 0.3262



42.2634, 0.3659, 0.4332



# Rectangle

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



42.2634, 0.2221, 0.3195



42.2634, 0.2146, 0.2506



42.2634, 0.4116, 0.3262



42.2634, 0.4192, 0.3988

# Sweetspot

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



42.2650, 0.2221, 0.3195



86.8020, 0.2691, 0.3264



40.8526, 0.2997, 0.5990



18.2729, 0.2637, 0.3260



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.



42.2650, 0.2221, 0.3195



73.9340, 0.2221, 0.3194



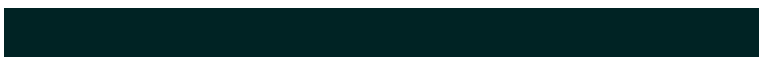
12.5410, 0.1755, 0.1516



12.0106, 0.2984, 0.3283



27.2013, 0.2221, 0.3196



1.3056, 0.2227, 0.3217



# Inverse Universe

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



15.9956, 0.3286, 0.1584



27.9948, 0.3287, 0.1585



21.8232, 0.5364, 0.4122



10.8109, 0.3142, 0.3069



10.2860, 0.3285, 0.1583



0.4888, 0.3268, 0.1574



# Previews

## White Background



This preview shows how the Yxy color 42.2634, 0.2221, 0.3195 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

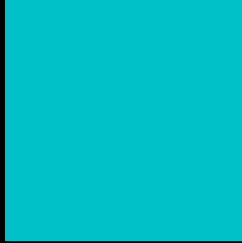
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 42.2634, 0.2221, 0.3195 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

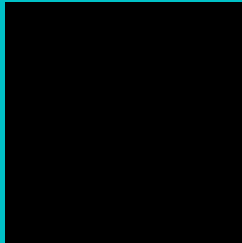
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

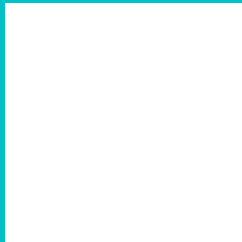
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 42.2634, 0.2221, 0.3195**

## **Background**



This preview shows how black text looks on a background with the Yxy color 42.2634, 0.2221, 0.3195.

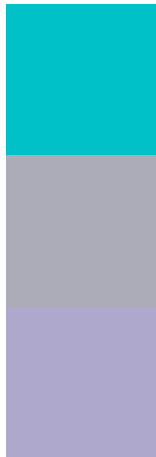


This preview shows how white text looks on a background with the Yxy color 42.2634, 0.2221, 0.3195.

# 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

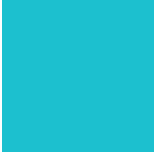
42.2634, 0.2221, 0.3195

### Protanopia

41.7785, 0.3021, 0.3115

### Deuteranopia

41.7342, 0.2890, 0.2835



## **Tritanopia**

42.4511, 0.2206, 0.3062

# Trichromacy



## Original Color

42.2634, 0.2221, 0.3195



## Protanomaly

39.6752, 0.2535, 0.3139



## Deuteranomaly

39.4846, 0.2466, 0.2938



## Tritanomaly

42.1875, 0.2208, 0.3105

# Monochromacy



## Original Color

42.2634, 0.2221, 0.3195



## Achromatopsia

24.6201, 0.3127, 0.3290



## Achromatomaly

28.6434, 0.2527, 0.3253

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 42.2634, 0.2221, 0.3195 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, 193, 199)` looks like.

```
.text, #text, p{  
    color:rgb(0, 193, 199)  
}
```

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, 193, 199) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 193, 199) }
```

## Border

The CSS property to change the border of an element to Yxy 42.2634, 0.2221, 0.3195 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, 193, 199) }
```

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

```
.border{ border-color:rgb(0, 193, 199) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 193, 199)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 193, 199); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 193, 199);  
box-shadow:4px 4px 4px 4px rgb(0, 193,  
199) }
```



# Background

The CSS property to change the background color of an element to Yxy 42.2634, 0.2221, 0.3195 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 193, 199) }
```

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

```
.background{ background-color: rgb(0, 193,  
199) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor