

# Converting Colors

$Y_{xy}(46.9901, 0.2242, 0.3270)$

Have a look what the booklet for  
Yxy(46.9901, 0.2242, 0.3270)  
contains.

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# Color

**Yxy(47.0780, 0.2243, 0.3273)**

# Conversions

## Conversions Part 1

Format	Color
Hex	01CBCC
RGB	1, 203, 204
RGB Percent	0%, 80%, 80%
CMY	0.9969, 0.2039, 0.2001
CMYK	1.00, 0.00, 0.00, 0.20
HSL	180°, 99%, 40%
HSV	180°, 100%, 80%
XYZ	32.2627, 47.0780, 64.4967
YIQ	142.7160, -120.7130, -42.5130

# Conversions

## Conversions Part 2

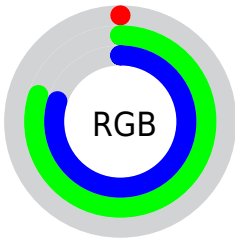
<b>Format</b>	<b>Color</b>
<b>RYB</b>	1, 102, 204
Decimal	117708
CIELab	74.24, -40.18, -12.38
CIELCh	74, 42.043, 197.126
Yxy	47.0780, 0.2243, 0.3273
Android (android.graphics.Color)	4278307788 (0xFF01CBCC)
YUV	142.7160, 30.2130, -124.2849
Hunter-Lab	68.6134, -36.1409, -7.7033

# Details

The Yxy color **47.0780, 0.2243, 0.3273** is a dark color, and the websafe version is hex **00CCCC**. The color can be described as middle washed cyan. A complement of this color would be **12.8739, 0.6392, 0.3302**, and the grayscale version is **27.2385, 0.3127, 0.3290**.

A 20% lighter version of the original color is **81.8658, 0.2405, 0.3288**, and **23.3818, 0.2236, 0.3248** is the 20% darker color. If you saturate the color by 10%, you get **47.0728, 0.2243, 0.3273**, and if you desaturate by 10%, it is **47.2820, 0.2257, 0.3275**.

# Distribution



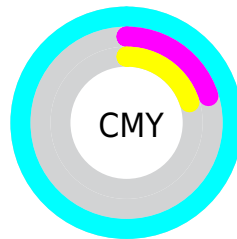
- Red (0%)
- Green (80%)
- Blue (80%)



- Red (0%)
- Yellow (40%)
- Blue (80%)



- Cyan (100%)
- Magenta (0%)
- Yellow (0%)
- Black (20%)




- Cyan (100%)
- Magenta (20%)
- Yellow (20%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 47.0780, 0.2243, 0.3273 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 47.0780, 0.2243, 0.3273 by changing the saturation by 10% instead.




 47.0780, 0.2243,  
0.3273

 47.0780, 0.2243,  
0.3273

375.1258, 0.2671,  
0.3295

 33.0973, 0.2141,  
0.3263


 85.8300, 0.2395,  
0.3284

 22.2010, 0.2014,  
0.3249


 111.3702, 0.2453,  
0.3287


 14.0047, 0.1851,  
0.3225


 141.5323, 0.2502,  
0.3290

 8.1239, 0.1636,  
0.3186

 176.7007, 0.2545,  
0.3292

 4.1743, 0.1342,  
0.3112

 217.2599, 0.2583,  
0.3293

 1.7716, 0.0871,  
0.2980

263.5942, 0.2616,

 0.4694, 0.0000,

0.3294

0.2461

316.0880, 0.2645,  
0.3295

■ 0.0000, 0.0000,  
0.0000

■ 47.0780, 0.2243,  
0.3273

■ 47.0780, 0.2243,  
0.3273

■ 47.0728, 0.2243,  
0.3273

■ 47.2820, 0.2257,  
0.3275

■ 47.6500, 0.2285,  
0.3276

■ 48.2360, 0.2331,  
0.3278

■ 49.0694, 0.2397,  
0.3280

■ 50.1750, 0.2481,  
0.3281

■ 51.5746, 0.2584,  
0.3283

■ 53.2877, 0.2703,  
0.3285

■ 55.3324, 0.2836,  
0.3287

■ 57.7250, 0.2980,  
0.3288

# Harmonies

## Analogous

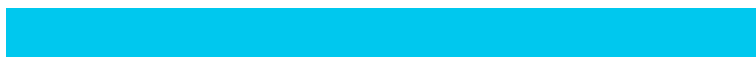
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



47.0780, 0.2633, 0.3869



47.0780, 0.2243, 0.3273



47.0780, 0.2083, 0.2756

# Triad

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



47.0780, 0.2243, 0.3273



47.0780, 0.2986, 0.2499



47.0780, 0.4157, 0.4072

# Complementary

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



47.0780, 0.2243, 0.3273



12.8739, 0.6392, 0.3302

# 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.



47.0780, 0.4296, 0.3653



47.0780, 0.2243, 0.3273



47.0780, 0.3584, 0.2792

# Square

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



47.0780, 0.2243, 0.3273



47.0780, 0.2478, 0.2374



47.0780, 0.4084, 0.3199



47.0780, 0.3739, 0.4335



# Rectangle

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



47.0780, 0.2243, 0.3273



47.0780, 0.2112, 0.2527



47.0780, 0.4084, 0.3199



47.0780, 0.4239, 0.3942

# Sweetspot

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



47.0797, 0.2243, 0.3273



88.0324, 0.2693, 0.3285



43.1808, 0.3000, 0.5997



18.5730, 0.2641, 0.3284



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.



47.0797, 0.2243, 0.3273



77.9689, 0.2243, 0.3273



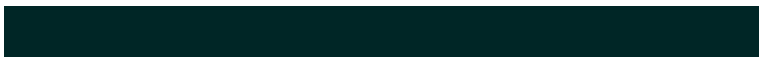
13.9427, 0.1771, 0.1573



12.7175, 0.2984, 0.3288



29.6405, 0.2243, 0.3273



1.5321, 0.2243, 0.3276



# Inverse Universe

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



17.1634, 0.3221, 0.1549



28.4022, 0.3221, 0.1548



22.4147, 0.5409, 0.4084



11.4028, 0.3139, 0.3063



10.7952, 0.3221, 0.1548

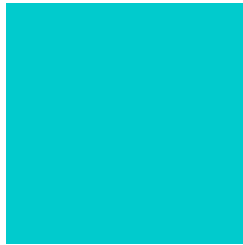


0.5572, 0.3219, 0.1547



# Previews

## White Background



This preview shows how the Yxy color 47.0780, 0.2243, 0.3273 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

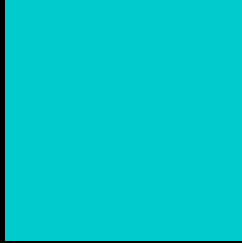
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 47.0780, 0.2243, 0.3273 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

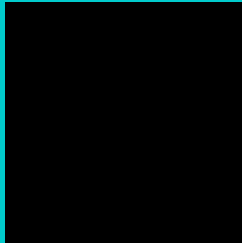
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

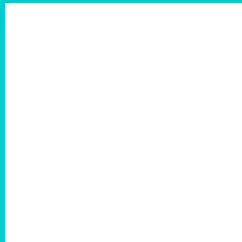
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 47.0780, 0.2243, 0.3273**

## **Background**



This preview shows how black text looks on a background with the Yxy color 47.0780, 0.2243, 0.3273.



This preview shows how white text looks on a background with the Yxy color 47.0780, 0.2243, 0.3273.

# 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

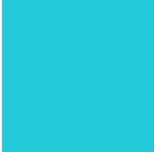
47.0780, 0.2243, 0.3273

### Protanopia

46.3053, 0.3065, 0.3161

### Deuteranopia

46.4117, 0.2938, 0.2879



## Tritanopia

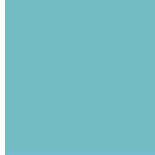
47.1581, 0.2213, 0.3057

# Trichromacy



## Original Color

47.0780, 0.2243, 0.3273



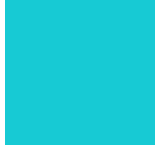
## Protanomaly

43.6196, 0.2560, 0.3187



## Deuteranomaly

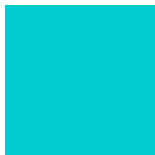
43.5234, 0.2493, 0.2979



## Tritanomaly

47.1767, 0.2221, 0.3142

# Monochromacy



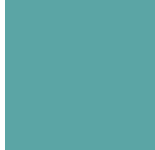
## Original Color

47.0780, 0.2243, 0.3273



## Achromatopsia

27.4677, 0.3127, 0.3290



## Achromatomaly

31.8510, 0.2536, 0.3288

# CSS Examples

## Text

The CSS property to change the color of the text to  $Yxy$  47.0780, 0.2243, 0.3273 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, 203, 204)` looks like.

```
.text, #text, p{  
    color:rgb(1, 203, 204)  
}
```

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, 203, 204) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(1, 203, 204) }
```

## Border

The CSS property to change the border of an element to Yxy 47.0780, 0.2243, 0.3273 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, 203, 204) }
```

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

```
.border{ border-color:rgb(1, 203, 204) }
```

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

Here you see how a box with a 4 pixel rgb(1, 203, 204) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(1, 203, 204); -webkit-box-  
shadow:4px 4px 4px 4px rgb(1, 203, 204);  
box-shadow:4px 4px 4px 4px rgb(1, 203,  
204) }
```



# Background

The CSS property to change the background color of an element to Yxy 47.0780, 0.2243, 0.3273 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(1, 203, 204) }
```

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

```
.background{ background-color: rgb(1, 203,  
204) }
```

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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