

# Converting Colors

XYZ(31.4302, 45.4219, 64.2375)

Have a look what the booklet for  
XYZ(31.4302, 45.4219, 64.2375)  
contains.

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# Color

**XYZ(31.3225, 45.2065,  
64.2016)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00C7CC
RGB	0, 199, 204
RGB Percent	0%, 78%, 80%
CMY	0.9998, 0.2196, 0.2000
CMYK	1.00, 0.02, 0.00, 0.20
HSL	181°, 100%, 40%
HSV	181°, 100%, 80%
XYZ	31.3225, 45.2065, 64.2016
YIQ	140.0690, -120.2090, -40.6330

# Conversions

## Conversions Part 2

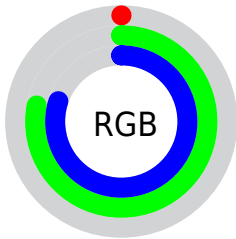
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 101, 204
Decimal	51148
CIELab	73.03, -38.38, -14.21
CIELCh	73, 40.924, 200.324
Yxy	45.2065, 0.2226, 0.3212
Android (android.graphics.Color)	4278241228 (0xFF00C7CC)
YUV	140.0690, 31.5180, -122.8405
Hunter-Lab	67.2358, -34.5065, -9.5493

# Details

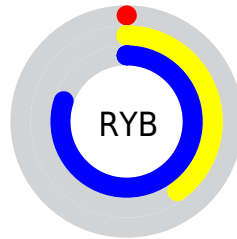
The XYZ color **31.3225, 45.2065, 64.2016** is a dark color, and the websafe version is hex **00CCCC**. The color can be described as middle washed cyan. A complement of this color would be **24.9572, 12.9471, 1.1849**, and the grayscale version is **24.8746, 26.1700, 28.4991**.

A 20% lighter version of the original color is **59.7539, 81.8042, 107.2482**, and **15.4783, 22.1485, 32.3135** is the 20% darker color. If you saturate the color by 10%, you get **31.3231, 45.2074, 64.2026**, and if you desaturate by 10%, it is **31.7362, 45.5918, 64.2550**.

# Distribution



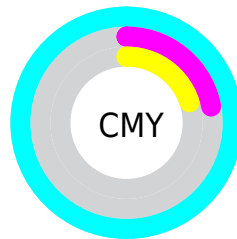
- Red (0%)
- Green (78%)
- Blue (80%)



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



- Cyan (100%)
- Magenta (2%)
- Yellow (0%)
- Black (20%)



- Cyan (100%)
- Magenta (22%)
- Yellow (20%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 31.3225, 45.2065, 64.2016 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 XYZ color 31.3225, 45.2065, 64.2016 by changing the saturation by 10% instead.



31.3225, 45.2065,  
64.2016

31.3225, 45.2065,  
64.2016

299.8218,  
367.6092, 458.1447

20.9976, 31.6201,  
46.3668

61.1199, 83.0302,  
112.5035

13.2347, 21.0715,  
32.1846

81.3230, 108.0363,  
143.8076

7.6685, 13.1763,  
21.2365

105.5496,  
137.6178, 180.4385

3.9336, 7.5500,  
13.1041

134.1650,  
172.1590, 222.8149

1.6646, 3.8084,  
7.3687

167.5345,  
212.0443, 271.3551

0.4340, 1.5670,  
3.6118

206.0236,

0.0000, 0.3352,

257.6582, 326.4778

1.4149

249.9976,  
309.3851, 388.6015

■ 0.0000, 0.0000,  
0.1533

■ 0.0000, 0.0000,  
0.0000

■ 31.3225, 45.2065,  
64.2016

■ 31.3225, 45.2065,  
64.2016

■ 31.3231, 45.2074,  
64.2026

■ 31.7362, 45.5918,  
64.2550

■ 32.4624, 46.1378,  
64.3221

■ 33.6097, 46.9014,  
64.4090

■ 35.2354, 47.9122,  
64.5185

■ 37.3879, 49.1951,  
64.6527

■ 40.1096, 50.7721,  
64.8136

■ 43.4388, 52.6628,  
65.0031

■ 47.4103, 54.8852,  
65.2227

■ 52.0564, 57.4559,  
65.4740

# Harmonies

## Analogous

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



30.7908, 45.2065, 42.8968



31.3225, 45.2065, 64.2016



34.7747, 45.2065, 86.1673

# Triad

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



31.3225, 45.2065, 64.2016



54.4401, 45.2065, 78.8797



45.3197, 45.2065, 19.7187

# Complementary

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



31.3225, 45.2065, 64.2016



24.9572, 12.9471, 1.1849

# 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.



52.3554, 45.2065, 24.7132



31.3225, 45.2065, 64.2016



57.9934, 45.2065, 56.1407

# Square

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



31.3225, 45.2065, 64.2016



47.9211, 45.2065, 96.1412



57.1908, 45.2065, 36.7753



38.3675, 45.2065, 20.7641



# Rectangle

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



31.3225, 45.2065, 64.2016



38.5029, 45.2065, 96.3790



57.1908, 45.2065, 36.7753



47.7643, 45.2065, 20.6787

# Sweetspot

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



31.3239, 45.2082, 64.2027



71.6899, 87.0739, 107.6362



21.6126, 43.1942, 7.2971



14.8173, 18.3392, 23.0088



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



31.3239, 45.2082, 64.2027



51.8487, 74.8173, 106.3162



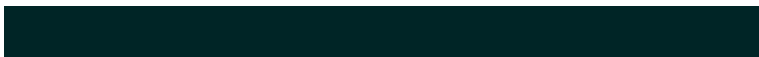
15.3261, 13.2125, 58.8701



11.5188, 12.6780, 14.4104



19.7254, 28.4748, 40.4128



1.0252, 1.4842, 2.0874



# Inverse Universe

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



35.2118, 16.9622, 55.4528



58.3000, 28.0840, 91.7667



29.9971, 23.0270, 2.8649



11.6752, 11.3988, 14.0903



22.1674, 10.6775, 34.9298

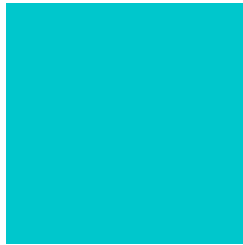


1.1474, 0.5524, 1.8223



# Previews

## White Background



This preview shows how the XYZ color 31.3225, 45.2065, 64.2016 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

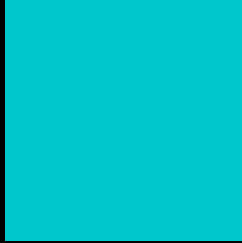
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 31.3225, 45.2065, 64.2016 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

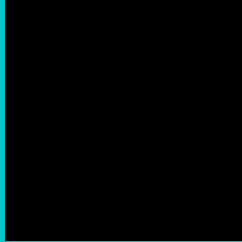
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

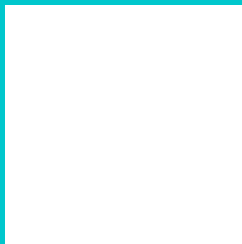
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# XYZ 31.3225, 45.2065, 64.2016

## Background



This preview shows how black text looks on a background with the XYZ color 31.3225, 45.2065, 64.2016.



This preview shows how white text looks on a background with the XYZ color 31.3225, 45.2065,



# 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

31.3225, 45.2065, 64.2016

### Protanopia

43.3765, 44.6270, 55.0429

### Deuteranopia

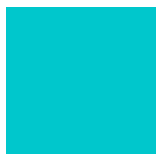
45.5913, 44.6285, 67.1840



## Tritanopia

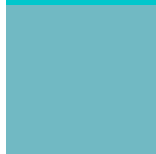
32.8968, 45.5345, 70.6735

# Trichromacy



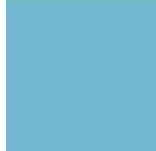
## Original Color

31.3225, 45.2065, 64.2016



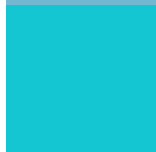
## Protanomaly

34.0093, 42.1488, 57.9728



## Deuteranomaly

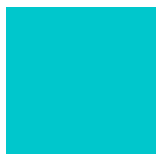
35.3889, 42.0659, 65.9288



## Tritanomaly

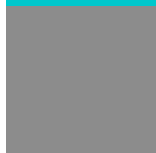
32.1154, 45.1900, 68.0027

# Monochromacy



## Original Color

31.3225, 45.2065, 64.2016



## Achromatopsia

24.9269, 26.2251, 28.5591



## Achromatomaly

23.4756, 30.2579, 39.2534

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 31.3225, 45.2065, 64.2016 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, 199, 204)` looks like.

```
.text, #text, p{  
    color:rgb(0, 199, 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(0, 199, 204) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 199, 204) }
```

## Border

The CSS property to change the border of an element to XYZ 31.3225, 45.2065, 64.2016 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, 199, 204) }
```



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

```
.border{ border-color:rgb(0, 199, 204) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 199, 204)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 199, 204); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 199, 204);  
box-shadow:4px 4px 4px 4px rgb(0, 199,  
204) }
```

# Background

The CSS property to change the background color of an element to XYZ 31.3225, 45.2065, 64.2016 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 199, 204) }
```

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

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