

# Converting Colors

XYZ(27.8642, 38.2899, 63.0488)

Have a look what the booklet for  
XYZ(27.8642, 38.2899, 63.0488)  
contains.

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# Color

**XYZ(27.8326, 38.2266,  
63.0383)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00B7CC
RGB	0, 183, 204
RGB Percent	0%, 72%, 80%
CMY	0.9998, 0.2823, 0.2000
CMYK	1.00, 0.10, 0.00, 0.20
HSL	186°, 100%, 40%
HSV	186°, 100%, 80%
XYZ	27.8326, 38.2266, 63.0383
YIQ	130.6770, -115.8090, -32.2650

# Conversions

## Conversions Part 2

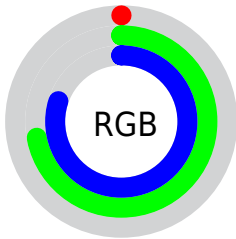
Format	Color
<a href="#">RYB</a>	0, 96, 204
Decimal	47052
CIELab	68.19, -30.85, -21.54
CIELCh	68, 37.624, 214.925
Yxy	38.2266, 0.2156, 0.2961
Android (android.graphics.Color)	4278237132 (0xFF00B7CC)
YUV	130.6770, 36.1482, -114.6037
Hunter-Lab	61.8277, -27.8441, -17.1716

# Details

The XYZ color **27.8326, 38.2266, 63.0383** is a dark color, and the websafe version is hex **33CCCC**. The color can be described as dark washed azure. A complement of this color would be **25.1715, 13.3757, 1.2565**, and the grayscale version is **21.3689, 22.4817, 24.4826**.

A 20% lighter version of the original color is **54.5100, 71.8366, 105.6006**, and **13.4877, 18.1673, 31.6499** is the 20% darker color. If you saturate the color by 10%, you get **27.8322, 38.2256, 63.0389**, and if you desaturate by 10%, it is **28.5674, 39.2541, 63.1986**.

# Distribution



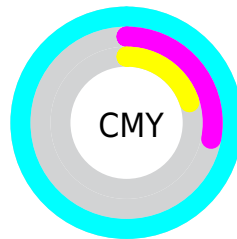
- Red (0%)
- Green (72%)
- Blue (80%)



- Red (0%)
- Yellow (38%)
- Blue (80%)



- Cyan (100%)
- Magenta (10%)
- Yellow (0%)
- Black (20%)



- Cyan (100%)
- Magenta (28%)
- Yellow (20%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 27.8326, 38.2266, 63.0383 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 27.8326, 38.2266, 63.0383 by changing the saturation by 10% instead.



27.8326, 38.2266,  
63.0383

27.8326, 38.2266,  
63.0383

283.7608,  
338.5910, 453.8202

18.3393, 26.1586,  
45.4310

55.6276, 72.4553,  
110.8109

11.2950, 16.9423,  
31.4516

74.6600, 95.3848,  
141.8132

6.3344, 10.1934,  
20.6816

97.6028, 122.7037,  
178.1177

3.0920, 5.5274,  
12.7025

124.8214,  
154.7962, 220.1428

1.2026, 2.5599,  
7.0957

156.6812,  
192.0468, 268.3070

0.1084, 0.9065,  
3.4427

193.5474,

0.0000, 0.0000,

234.8398, 323.0290

1.3249

235.7855,  
283.5598, 384.7272

■ 0.0000, 0.0000,  
0.0820

■ 0.0000, 0.0000,  
0.0000

■ 27.8326, 38.2266,  
63.0383

■ 27.8326, 38.2266,  
63.0383

■ 27.8322, 38.2256,  
63.0389

■ 28.5674, 39.2541,  
63.1986

■ 29.6212, 40.4549,  
63.3749

■ 31.1021, 41.8857,  
63.5730

■ 33.0675, 43.5759,  
63.7956

■ 35.5660, 45.5507,  
64.0451

■ 38.6400, 47.8320,  
64.3234

■ 42.3277, 50.4395,  
64.6324

■ 46.6640, 53.3912,  
64.9736

■ 51.6812, 56.7038,  
65.3485

# Harmonies

## Analogous

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



26.1966, 38.2266, 44.4636



27.8326, 38.2266, 63.0383



31.7511, 38.2266, 78.3599

# Triad

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



27.8326, 38.2266, 63.0383



47.5610, 38.2266, 56.9010



35.3715, 38.2266, 16.9862

# Complementary

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



27.8326, 38.2266, 63.0383



25.1715, 13.3757, 1.2565

# 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.



41.3363, 38.2266, 18.6503



27.8326, 38.2266, 63.0383



48.7961, 38.2266, 38.9047

# Square

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



27.8326, 38.2266, 63.0383



43.1951, 38.2266, 74.1988



46.4093, 38.2266, 25.7060



30.2395, 38.2266, 20.3253



# Rectangle

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



27.8326, 38.2266, 63.0383



35.3428, 38.2266, 82.9023



46.4093, 38.2266, 25.7060



37.3421, 38.2266, 16.9903

# Sweetspot

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



27.8338, 38.2280, 63.0392



69.8236, 83.3414, 107.0141



21.7240, 43.2387, 7.8837



14.3634, 17.4313, 22.8575



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.



27.8338, 38.2280, 63.0392



45.9989, 63.1178, 104.3663



13.8893, 10.3390, 58.3911



11.4408, 12.5220, 14.3844



17.5576, 24.1392, 39.6902



0.9349, 1.3035, 2.0573



# Inverse Universe

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



33.4502, 16.2576, 46.1761



55.3473, 26.9029, 76.2181



31.9137, 26.8602, 3.5039



11.6358, 11.3831, 13.8829



21.0732, 10.2399, 29.1677



1.1018, 0.5341, 1.5821



# Previews

## White Background



This preview shows how the XYZ color 27.8326, 38.2266, 63.0383 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 27.8326, 38.2266, 63.0383 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

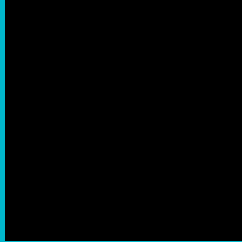
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 27.8326, 38.2266, 63.0383**

## **Background**



This preview shows how black text looks on a background with the XYZ color 27.8326, 38.2266, 63.0383.



This preview shows how white text looks on a background with the XYZ color 27.8326, 38.2266,



# 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

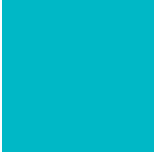
27.8326, 38.2266, 63.0383

### Protanopia

37.1766, 37.7861, 54.6242

### Deuteranopia

38.5295, 37.7132, 65.5703



## **Tritanopia**

27.3335, 38.3582, 59.3893

# Trichromacy



## Original Color

27.8326, 38.2266, 63.0383



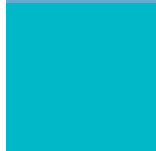
## Protanomaly

30.0062, 35.9361, 57.5794



## Deuteranomaly

31.0040, 36.0211, 64.3502



## Tritanomaly

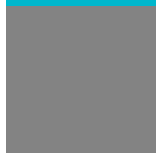
27.5658, 38.4511, 60.6125

# Monochromacy



## Original Color

27.8326, 38.2266, 63.0383



## Achromatopsia

21.5731, 22.6966, 24.7166



## Achromatomaly

20.6452, 26.1203, 36.3014

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 27.8326, 38.2266, 63.0383 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, 183, 204)` looks like.

```
.text, #text, p{  
    color:rgb(0, 183, 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, 183, 204) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 183, 204) }
```

## Border

The CSS property to change the border of an element to XYZ 27.8326, 38.2266, 63.0383 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, 183, 204) }
```



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

```
.border{ border-color:rgb(0, 183, 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, 183, 204)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 183, 204); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 183, 204);  
box-shadow:4px 4px 4px 4px rgb(0, 183,  
204) }
```

# Background

The CSS property to change the background color of an element to XYZ 27.8326, 38.2266, 63.0383 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 183, 204) }
```

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

```
.background{ background-color: rgb(0, 183,  
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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