

# Converting Colors

XYZ(33.5523, 49.9409, 64.0974)

Have a look what the booklet for  
XYZ(33.5523, 49.9409, 64.0974)  
contains.

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# Color

**XYZ(33.5800, 49.9127,  
64.3642)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00D1CB
RGB	0, 209, 203
RGB Percent	0%, 82%, 80%
CMY	0.9998, 0.1804, 0.2039
CMYK	1.00, 0.00, 0.03, 0.18
HSL	178°, 100%, 41%
HSV	178°, 100%, 82%
XYZ	33.5800, 49.9127, 64.3642
YIQ	145.8250, -122.6380, -46.1740

# Conversions

## Conversions Part 2

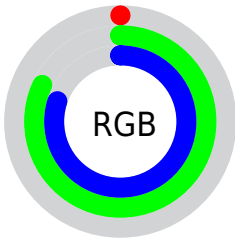
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 106, 209
Decimal	53707
CIELab	76.02, -43.15, -9.20
CIELCh	76, 44.121, 192.040
Yxy	49.9127, 0.2271, 0.3376
Android (android.graphics.Color)	4278243787 (0xFF00D1CB)
YUV	145.8250, 28.1873, -127.8885
Hunter-Lab	70.6489, -38.7931, -4.5615

# Details

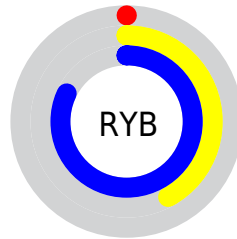
The XYZ color **33.5800, 49.9127, 64.3642** is a dark color, and the websafe version is hex **00CCCC**. The color can be described as middle washed cyan. A complement of this color would be **26.3290, 13.5701, 1.4054**, and the grayscale version is **27.1810, 28.5966, 31.1416**.

A 20% lighter version of the original color is **59.8734, 81.8658, 107.2538**, and **16.9804, 25.2811, 32.4186** is the 20% darker color. If you saturate the color by 10%, you get **33.5807, 49.9142, 64.3644**, and if you desaturate by 10%, it is **33.9608, 50.1018, 64.7574**.

# Distribution



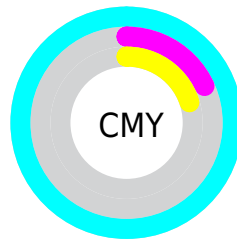
- Red (0%)
- Green (82%)
- Blue (80%)



- Red (0%)
- Yellow (42%)
- Blue (82%)



- Cyan (100%)
- Magenta (0%)
- Yellow (3%)
- Black (18%)




- Cyan (100%)
- Magenta (18%)
- Yellow (20%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 33.5800, 49.9127, 64.3642 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 33.5800, 49.9127, 64.3642 by changing the saturation by 10% instead.





 33.5800, 49.9127,  
64.3642


 33.5800, 49.9127,  
64.3642


309.8742,  
386.3244, 458.7472


 22.7325, 35.3440,  
46.4977


 64.6286, 90.0455,  
112.7398


 14.5157, 23.9280,  
32.2872


 85.5605, 116.3785,  
144.0859


 8.5643, 15.2802,  
21.3143


 110.5845,  
147.4016, 180.7623

 4.5129, 9.0163,  
13.1605

 140.0660,  
183.4994, 223.1875

 1.9962, 4.7518,  
7.4071

 174.3703,  
225.0562, 271.7800

 0.6318, 2.1024,  
3.6357

213.8629,

 0.0000, 0.6660,

272.4563, 326.9585

1.4277

258.9091,  
326.0843, 389.1413

■ 0.0000, 0.0000,  
0.1632

■ 0.0000, 0.0000,  
0.0000

■ 33.5800, 49.9127,  
64.3642

■ 33.5800, 49.9127,  
64.3642

■ 33.5807, 49.9142,  
64.3644

■ 33.9608, 50.1018,  
64.7574

■ 34.6733, 50.4608,  
65.1663

■ 35.8309, 51.0492,  
65.5976

■ 37.4944, 51.8984,  
66.0540

■ 39.7154, 53.0350,  
66.5380

■ 42.5389, 54.4821,  
67.0515

■ 46.0055, 56.2607,  
67.5967

■ 50.1522, 58.3899,  
68.1751

■ 55.0131, 60.8873,  
68.7884

# Harmonies

## Analogous

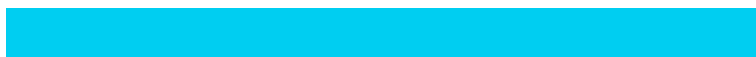
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



33.9172, 49.9127, 41.5298



33.5800, 49.9127, 64.3642



36.6269, 49.9127, 90.7161

# Triad

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



33.5800, 49.9127, 64.3642



58.8521, 49.9127, 95.4554



52.4918, 49.9127, 21.6181

# Complementary

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



33.5800, 49.9127, 64.3642



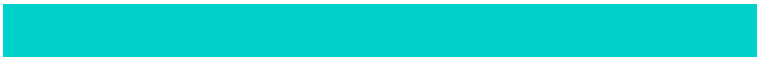
26.3290, 13.5701, 1.4054

# 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.



60.1970, 49.9127, 29.2864



33.5800, 49.9127, 64.3642



64.1514, 49.9127, 69.5610

# Square

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



33.5800, 49.9127, 64.3642



50.8204, 49.9127, 111.8465



64.6703, 49.9127, 45.4261

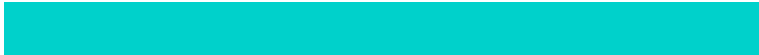


44.2140, 49.9127, 20.9692



# Rectangle

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



33.5800, 49.9127, 64.3642



40.3980, 49.9127, 105.0403



64.6703, 49.9127, 45.4261



55.2574, 49.9127, 23.3290

# Sweetspot

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



33.5815, 49.9146, 64.3654



71.9333, 88.1235, 105.9821



22.8893, 45.6478, 7.6060



14.8767, 18.5952, 22.6053



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.



33.5815, 49.9146, 64.3654



52.6530, 78.2772, 100.8775



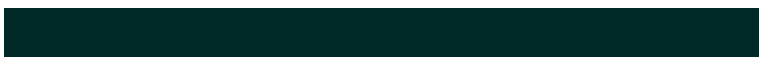
17.2479, 16.0805, 62.5183



12.1431, 13.4010, 15.1099



20.7108, 30.7773, 39.7188



1.1627, 1.7228, 2.2457



# Inverse Universe

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



26.3290, 13.5701, 1.4054



41.2801, 21.2761, 2.1413



30.6224, 22.2095, 2.6744



11.8223, 11.8137, 12.3401



16.2389, 8.3684, 0.8982

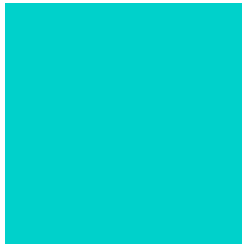


0.9129, 0.4699, 0.0762



# Previews

## White Background



This preview shows how the XYZ color 33.5800, 49.9127, 64.3642 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

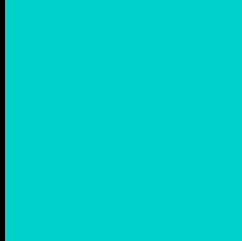
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 33.5800, 49.9127, 64.3642 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

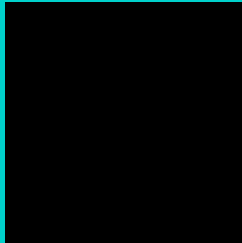
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

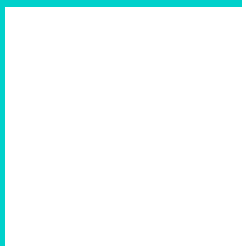
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 33.5800, 49.9127, 64.3642**

## **Background**



This preview shows how black text looks on a background with the XYZ color 33.5800, 49.9127, 64.3642.



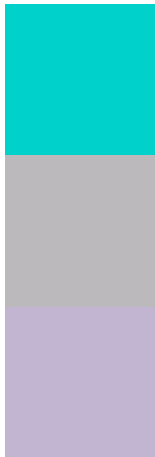
This preview shows how white text looks on a background with the XYZ color 33.5800, 49.9127,



# 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

33.5800, 49.9127, 64.3642

### Protanopia

47.2733, 49.0634, 55.1227

### Deuteranopia

50.0248, 48.9887, 67.1408



## Tritanopia

36.3869, 49.9839, 77.5421

# Trichromacy



## Original Color

33.5800, 49.9127, 64.3642



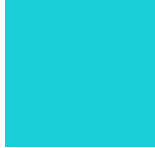
## Protanomaly

36.7751, 46.4717, 58.0706



## Deuteranomaly

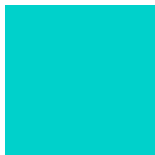
38.0617, 45.9776, 65.9000



## Tritanomaly

35.1595, 49.8165, 72.7282

# Monochromacy



## Original Color

33.5800, 49.9127, 64.3642



## Achromatopsia

27.3213, 28.7441, 31.3023



## Achromatomaly

25.6772, 33.4931, 41.6707

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 33.5800, 49.9127, 64.3642 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, 209, 203)` looks like.

```
.text, #text, p{  
    color:rgb(0, 209, 203)  
}
```

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, 209, 203) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 209, 203) }
```

## Border

The CSS property to change the border of an element to XYZ 33.5800, 49.9127, 64.3642 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, 209, 203) }
```



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

```
.border{ border-color:rgb(0, 209, 203) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 209, 203)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 209, 203); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 209, 203);  
box-shadow:4px 4px 4px 4px rgb(0, 209,  
203) }
```

# Background

The CSS property to change the background color of an element to XYZ 33.5800, 49.9127, 64.3642 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 209, 203) }
```

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

```
.background{ background-color: rgb(0, 209,  
203) }
```

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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