

# Converting Colors

XYZ(30.4205, 46.8479, 68.7409)

Have a look what the booklet for  
XYZ(30.4205, 46.8479, 68.7409)  
contains.

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# Color

**XYZ(33.5892, 48.3658,  
69.1932)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00CDD3
RGB	0, 205, 211
RGB Percent	0%, 80%, 83%
CMY	0.9998, 0.1961, 0.1725
CMYK	1.00, 0.03, 0.00, 0.17
HSL	182°, 100%, 41%
HSV	182°, 100%, 83%
XYZ	33.5892, 48.3658, 69.1932
YIQ	144.3890, -124.1060, -41.5940

# Conversions

## Conversions Part 2

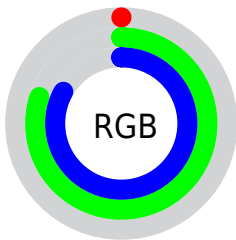
Format	Color
<a href="#">RYB</a>	<a href="#">0, 104, 211</a>
Decimal	<a href="#">52691</a>
CIELab	<a href="#">75.06, -38.98, -14.96</a>
CIELCh	<a href="#">75, 41.749, 200.993</a>
Yxy	<a href="#">48.3658, 0.2222, 0.3200</a>
Android (android.graphics.Color)	<a href="#">4278242771</a> ( <a href="#">0xFF00CDD3</a> )
YUV	<a href="#">144.3890, 32.8392, -126.6292</a>
Hunter-Lab	<a href="#">69.5455, -35.4925, -10.3078</a>

# Details

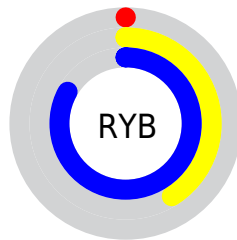
The XYZ color **33.5892, 48.3658, 69.1932** is a dark color, and the websafe version is hex **00CCCC**. The color can be described as middle washed cyan. A complement of this color would be **26.9303, 13.9805, 1.2806**, and the grayscale version is **26.5802, 27.9644, 30.4533**.

A 20% lighter version of the original color is **59.9943, 81.9281, 107.2594**, and **16.9921, 24.2470, 35.6829** is the 20% darker color. If you saturate the color by 10%, you get **33.5897, 48.3666, 69.1942**, and if you desaturate by 10%, it is **34.0463, 48.8159, 69.2569**.

# Distribution



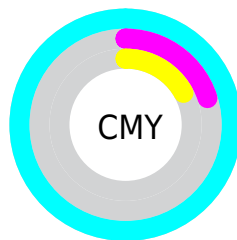
- Red (0%)
- Green (80%)
- Blue (83%)



- Red (0%)
- Yellow (41%)
- Blue (83%)



- Cyan (100%)
- Magenta (3%)
- Yellow (0%)
- Black (17%)



- Cyan (100%)
- Magenta (20%)
- Yellow (17%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 33.5892, 48.3658, 69.1932 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 33.5892, 48.3658, 69.1932 by changing the saturation by 10% instead.



33.5892, 48.3658,  
69.1932

33.5892, 48.3658,  
69.1932

309.9147,  
380.2402, 476.4245

22.7396, 34.1167,  
50.3963

64.6429, 87.7488,  
119.7278

14.5210, 22.9832,  
35.3550

85.5776, 113.6514,  
152.3026

8.5680, 14.5811,  
23.6507

110.6048,  
144.2074, 190.3071

4.5153, 8.5259,  
14.8649

140.0898,  
179.8010, 234.1599

1.9976, 4.4333,  
8.5791

174.3979,  
220.8167, 284.2795

0.6326, 1.9188,  
4.3746

213.8945,

0.0000, 0.5596,

267.6389, 341.0844

1.8330

258.9450,  
320.6519, 404.9932

■ 0.0000, 0.0000,  
0.4496

■ 0.0000, 0.0000,  
0.0000

■ 33.5892, 48.3658,  
69.1932

■ 33.5892, 48.3658,  
69.1932

■ 33.5897, 48.3666,  
69.1942

■ 34.0463, 48.8159,  
69.2569

■ 34.8433, 49.4411,  
69.3356

■ 36.0955, 50.3017,  
69.4357

■ 37.8652, 51.4300,  
69.5602

■ 40.2052, 52.8531,  
69.7115

■ 43.1617, 54.5948,  
69.8919

■ 46.7761, 56.6765,  
70.1032

■ 51.0863, 59.1177,  
70.3472

■ 56.1273, 61.9365,  
70.6256

# Harmonies

## Analogous

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



32.9501, 48.3658, 46.3547



33.5892, 48.3658, 69.1932



37.3412, 48.3658, 92.5209

# Triad

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



33.5892, 48.3658, 69.1932



58.3380, 48.3658, 83.7793



48.3054, 48.3658, 21.1113

# Complementary

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



33.5892, 48.3658, 69.1932



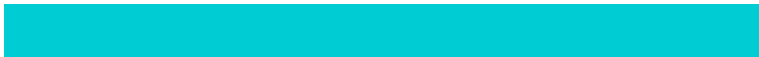
26.9303, 13.9805, 1.2806

# 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.



55.8357, 48.3658, 26.2964



33.5892, 48.3658, 69.1932



62.0348, 48.3658, 59.5172

# Square

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



33.5892, 48.3658, 69.1932



51.4286, 48.3658, 102.4318



61.0717, 48.3658, 38.9990



40.9124, 48.3658, 22.3700



# Rectangle

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



33.5892, 48.3658, 69.1932



41.3561, 48.3658, 103.2099



61.0717, 48.3658, 38.9990



50.9154, 48.3658, 22.0897

# Sweetspot

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



33.5907, 48.3676, 69.1944



71.5950, 86.8842, 107.6046



23.3148, 46.5973, 7.8678



14.7942, 18.2929, 23.0011



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.



33.5907, 48.3676, 69.1944



51.5403, 74.2006, 106.2134



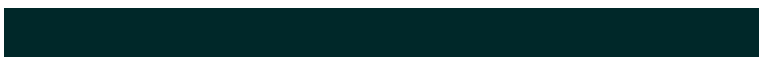
16.5110, 14.2082, 63.5011



12.1284, 13.3470, 15.1806



20.2846, 29.2158, 41.7626



1.1435, 1.6521, 2.3382



# Inverse Universe

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



37.8847, 18.2581, 59.2869



58.1444, 28.0217, 90.9471



32.3377, 24.7954, 3.0830



12.2957, 12.0030, 14.8329



22.8695, 11.0206, 35.8143

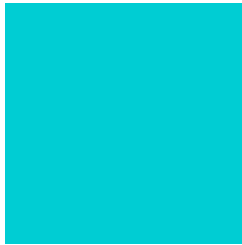


1.2834, 0.6181, 2.0272



# Previews

## White Background



This preview shows how the XYZ color 33.5892, 48.3658, 69.1932 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

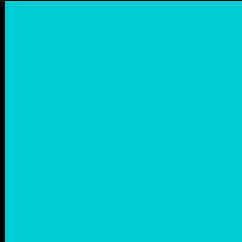
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 33.5892, 48.3658, 69.1932 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

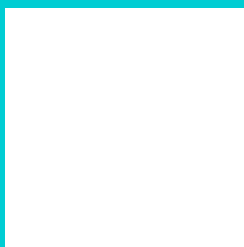
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 33.5892, 48.3658, 69.1932**

## **Background**



This preview shows how black text looks on a background with the XYZ color 33.5892, 48.3658, 69.1932.



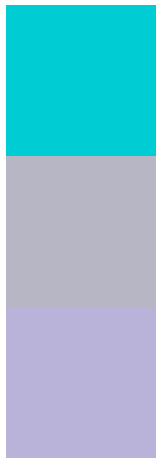
This preview shows how white text looks on a background with the XYZ color 33.5892, 48.3658,



# 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

33.5892, 48.3658, 69.1932

### Protanopia

46.3344, 47.5544, 59.5602

### Deuteranopia

48.6521, 47.5642, 72.2622



## Tritanopia

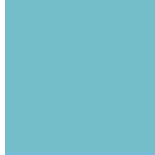
35.0762, 48.6443, 75.2507

# Trichromacy



## Original Color

33.5892, 48.3658, 69.1932



## Protanomaly

36.2766, 44.8042, 62.6132



## Deuteranomaly

37.7202, 44.7243, 70.9346



## Tritanomaly

34.4057, 48.3442, 73.1636

# Monochromacy



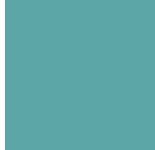
## Original Color

33.5892, 48.3658, 69.1932



## Achromatopsia

26.5089, 27.8894, 30.3716



## Achromatomaly

25.1177, 32.3749, 41.9709

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 33.5892, 48.3658, 69.1932 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, 205, 211)` looks like.

```
.text, #text, p{  
    color:rgb(0, 205, 211)  
}
```

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, 205, 211) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 205, 211) }
```

## Border

The CSS property to change the border of an element to XYZ 33.5892, 48.3658, 69.1932 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, 205, 211) }
```



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

```
.border{ border-color:rgb(0, 205, 211) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 205, 211)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 205, 211); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 205, 211);  
box-shadow:4px 4px 4px 4px rgb(0, 205,  
211) }
```

# Background

The CSS property to change the background color of an element to XYZ 33.5892, 48.3658, 69.1932 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 205, 211) }
```

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

```
.background{ background-color: rgb(0, 205,  
211) }
```

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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