

# Converting Colors

XYZ(15.8970, 34.9347, 80.9203)

Have a look what the booklet for  
XYZ(15.8970, 34.9347, 80.9203)  
contains.

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# Color

**XYZ(33.3529, 43.8531,  
81.5695)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00C1E6
RGB	0, 193, 230
RGB Percent	0%, 76%, 90%
CMY	0.9998, 0.2431, 0.0980
CMYK	1.00, 0.16, 0.00, 0.10
HSL	190°, 100%, 45%
HSV	190°, 100%, 90%
XYZ	33.3529, 43.8531, 81.5695
YIQ	139.5110, -126.9050, -29.4090

# Conversions

## Conversions Part 2

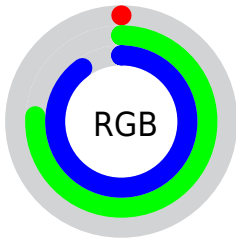
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 105, 230
Decimal	49638
CIELab	72.13, -27.20, -29.69
CIELCh	72, 40.270, 227.509
Yxy	43.8531, 0.2101, 0.2762
Android (android.graphics.Color)	4278239718 (0xFF00C1E6)
YUV	139.5110, 44.6111, -122.3511
Hunter-Lab	66.2217, -25.9854, -26.6761

# Details

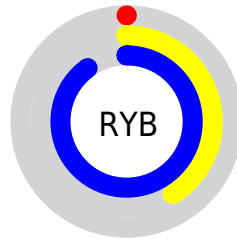
The XYZ color **33.3529, 43.8531, 81.5695** is a dark color, and the websafe version is hex **00CCFF**. The color can be described as middle washed cyan. A complement of this color would be **33.2973, 18.1502, 1.7501**, and the grayscale version is **24.6135, 25.8953, 28.2000**.

A 20% lighter version of the original color is **58.5423, 78.8424, 106.7403**, and **16.8726, 21.5212, 43.3091** is the 20% darker color. If you saturate the color by 10%, you get **33.3514, 43.8499, 81.5698**, and if you desaturate by 10%, it is **34.5368, 45.6940, 81.8633**.

# Distribution



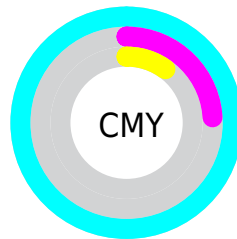
- Red (0%)
- Green (76%)
- Blue (90%)



- Red (0%)
- Yellow (41%)
- Blue (90%)



- Cyan (100%)
- Magenta (16%)
- Yellow (0%)
- Black (10%)



- Cyan (100%)
- Magenta (24%)
- Yellow (10%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 33.3529, 43.8531, 81.5695 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 33.3529, 43.8531, 81.5695 by changing the saturation by 10% instead.



33.3529, 43.8531,  
81.5695

33.3529, 43.8531,  
81.5695

308.8739,  
362.1085, 520.0521

22.5575, 30.5550,  
60.4770

64.2771, 80.9966,  
137.4014

14.3860, 20.2603,  
43.3754

85.1366, 105.6109,  
172.9779

8.4731, 12.5844,  
29.8462

110.0814,  
134.7661, 214.2194

4.4535, 7.1430,  
19.4708

139.4770,  
168.8465, 261.5446

1.9617, 3.5517,  
11.8307

173.6887,  
208.2365, 315.3719

0.6123, 1.4261,  
6.5074

213.0818,

0.0000, 0.2358,

253.3206, 376.1199

3.0822

258.0218,  
304.4831, 444.2071

■ 0.0000, 0.0000,  
1.1368

■ 0.0000, 0.0000,  
0.0000

■ 33.3529, 43.8531,  
81.5695

■ 33.3529, 43.8531,  
81.5695

■ 33.3514, 43.8499,  
81.5698

■ 34.5368, 45.6940,  
81.8633

■ 36.1606, 47.7915,  
82.1826

■ 38.3596, 50.2164,  
82.5347

■ 41.2115, 53.0089,  
82.9234

■ 44.7819, 56.2030,  
83.3518

■ 49.1280, 59.8285,  
83.8225

■ 54.3013, 63.9121,  
84.3380

■ 60.3486, 68.4781,  
84.9006

■ 67.3135, 73.5492,  
85.5124

# Harmonies

## Analogous

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



30.2743, 43.8531, 60.1050



33.3529, 43.8531, 81.5695



38.8792, 43.8531, 95.2317

# Triad

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



33.3529, 43.8531, 81.5695



56.0089, 43.8531, 56.4394



37.8188, 43.8531, 19.9234

# Complementary

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



33.3529, 43.8531, 81.5695



33.2973, 18.1502, 1.7501

# 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.



44.6144, 43.8531, 19.4469



33.3529, 43.8531, 81.5695



55.6439, 43.8531, 37.2135

# Square

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



33.3529, 43.8531, 81.5695



52.2397, 43.8531, 78.2569



51.2916, 43.8531, 24.8691



32.6506, 43.8531, 26.4217



# Rectangle

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



33.3529, 43.8531, 81.5695



43.4374, 43.8531, 96.1426



51.2916, 43.8531, 24.8691



39.9727, 43.8531, 19.1337

# Sweetspot

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



33.3544, 43.8546, 81.5706



68.4831, 80.6604, 106.5673



28.5947, 56.7134, 10.9952



14.0387, 16.7818, 22.7492



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

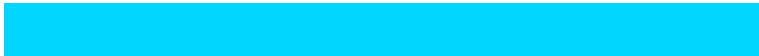


# Same Dimension

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



33.3544, 43.8546, 81.5706



42.0887, 55.2974, 103.0629



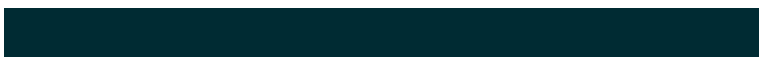
17.1923, 11.5304, 76.1832



14.5996, 15.9207, 18.4478



18.9572, 24.9765, 46.2050



1.4539, 1.9518, 3.4321



# Inverse Universe

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



42.2601, 20.6749, 52.2168



53.3736, 26.1135, 65.8248



43.4641, 38.4839, 5.1391



14.8903, 14.5733, 17.6225



23.9622, 11.7191, 29.7597

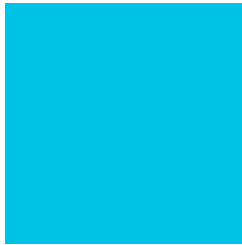


1.7975, 0.8767, 2.3402



# Previews

## White Background



This preview shows how the XYZ color 33.3529, 43.8531, 81.5695 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 33.3529, 43.8531, 81.5695 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 33.3529, 43.8531, 81.5695**

## **Background**



This preview shows how black text looks on a background with the XYZ color 33.3529, 43.8531, 81.5695.



This preview shows how white text looks on a background with the XYZ color 33.3529, 43.8531,



# 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

33.3529, 43.8531, 81.5695

### Protanopia

43.2566, 43.3370, 71.0507

### Deuteranopia

44.4362, 43.3589, 84.6243



## Tritanopia

31.2730, 43.7334, 68.4211

# Trichromacy



## Original Color

33.3529, 43.8531, 81.5695



## Protanomaly

35.5189, 41.3324, 74.5125



## Deuteranomaly

36.5087, 41.3505, 83.1480



## Tritanomaly

31.9467, 43.6455, 73.0703

# Monochromacy



## Original Color

33.3529, 43.8531, 81.5695



## Achromatopsia

24.9269, 26.2251, 28.5591



## Achromatomaly

24.0608, 29.9373, 44.0455

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 33.3529, 43.8531, 81.5695 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, 193, 230)` looks like.

```
.text, #text, p{  
    color:rgb(0, 193, 230)  
}
```

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, 193, 230) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 193, 230) }
```

## Border

The CSS property to change the border of an element to XYZ 33.3529, 43.8531, 81.5695 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, 193, 230) }
```



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

```
.border{ border-color:rgb(0, 193, 230) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 193, 230)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 193, 230); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 193, 230);  
box-shadow:4px 4px 4px 4px rgb(0, 193,  
230) }
```

# Background

The CSS property to change the background color of an element to XYZ 33.3529, 43.8531, 81.5695 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 193, 230) }
```

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

```
.background{ background-color: rgb(0, 193,  
230) }
```

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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