

# Converting Colors

XYZ(31.9373, 40.5585, 82.5265)

Have a look what the booklet for  
XYZ(31.9373, 40.5585, 82.5265)  
contains.

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# Color

**XYZ(31.9145, 40.5241,  
82.4838)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00B9E8
RGB	0, 185, 232
RGB Percent	0%, 73%, 91%
CMY	0.9997, 0.2745, 0.0902
CMYK	1.00, 0.20, 0.00, 0.09
HSL	192°, 100%, 46%
HSV	192°, 100%, 91%
XYZ	31.9145, 40.5241, 82.4838
YIQ	135.0430, -125.3470, -24.6030

# Conversions

## Conversions Part 2

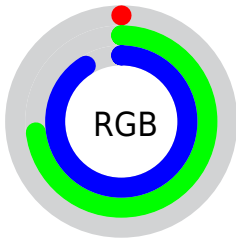
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 103, 232
Decimal	47592
CIELab	69.84, -22.48, -34.32
CIELCh	70, 41.025, 236.773
Yxy	40.5241, 0.2060, 0.2616
Android (android.graphics.Color)	4278237672 (0xFF00B9E8)
YUV	135.0430, 47.7998, -118.4327
Hunter-Lab	63.6585, -21.9135, -32.2624

# Details

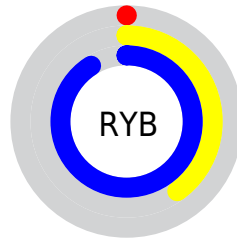
The XYZ color **31.9145, 40.5241, 82.4838** is a dark color, and the websafe version is hex **33CCFF**. The color can be described as middle washed azure. A complement of this color would be **34.2986, 19.1945, 1.8991**, and the grayscale version is **22.9147, 24.1080, 26.2536**.

A 20% lighter version of the original color is **55.6896, 73.3187, 105.8245**, and **16.0877, 19.6371, 44.0167** is the 20% darker color. If you saturate the color by 10%, you get **31.9122, 40.5193, 82.4838**, and if you desaturate by 10%, it is **33.2744, 42.7101, 82.8349**.

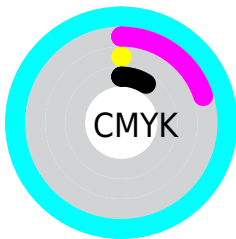
# Distribution



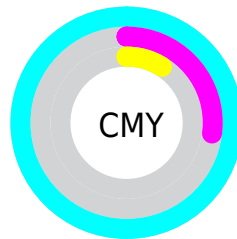
- Red (0%)
- Green (73%)
- Blue (91%)



- Red (0%)
- Yellow (40%)
- Blue (91%)



- Cyan (100%)
- Magenta (20%)
- Yellow (0%)
- Black (9%)



- Cyan (100%)
- Magenta (27%)
- Yellow (9%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 31.9145, 40.5241, 82.4838 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 31.9145, 40.5241, 82.4838 by changing the saturation by 10% instead.



■ 31.9145, 40.5241,  
82.4838

■ 31.9145, 40.5241,  
82.4838

302.4818,  
348.3277, 523.1904

■ 21.4514, 27.9474,  
61.2263

■ 62.0431, 75.9609,  
138.6950

■ 13.5687, 18.2860,  
43.9761

■ 82.4394, 99.5899,  
174.4858

■ 7.9010, 11.1555,  
30.3146

■ 106.8774,  
127.6717, 215.9580

■ 4.0829, 6.1715,  
19.8234

■ 135.7226,  
160.5908, 263.5303

■ 1.7492, 2.9497,  
12.0840

■ 169.3403,  
198.7315, 317.6211

■ 0.4867, 1.1055,  
6.6777

208.0958,

■ 0.0000, 0.0000,

242.4783, 378.6490

3.1860

252.3545,  
292.2156, 447.0326

■ 0.0000, 0.0000,  
1.1904

■ 0.0000, 0.0000,  
0.0000

■ 31.9145, 40.5241,  
82.4838

■ 31.9145, 40.5241,  
82.4838

■ 31.9122, 40.5193,  
82.4838

■ 33.2744, 42.7101,  
82.8349

■ 35.0955, 45.1820,  
83.2160

■ 37.5154, 48.0117,  
83.6347

■ 40.6136, 51.2407,  
84.0946

■ 44.4573, 54.9041,  
84.5992

■ 49.1050, 59.0325,  
85.1511

■ 54.6097, 63.6535,  
85.7529

■ 61.0192, 68.7923,  
86.4070

■ 68.3780, 74.4723,  
87.1154

# Harmonies

## Analogous

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



28.1735, 40.5241, 62.8016



31.9145, 40.5241, 82.4838



37.8002, 40.5241, 91.8313

# Triad

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



31.9145, 40.5241, 82.4838



52.7767, 40.5241, 46.2218



33.0292, 40.5241, 18.8034

# Complementary

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



31.9145, 40.5241, 82.4838



34.2986, 19.1945, 1.8991

# 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.



39.2427, 40.5241, 16.6932



31.9145, 40.5241, 82.4838



51.1249, 40.5241, 29.5736

# Square

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



31.9145, 40.5241, 82.4838



50.2588, 40.5241, 67.4380



45.9724, 40.5241, 19.9975



28.7631, 40.5241, 26.9174



# Rectangle

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



31.9145, 40.5241, 82.4838



42.3337, 40.5241, 89.4033



45.9724, 40.5241, 19.9975



34.9368, 40.5241, 17.4917

# Sweetspot

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



31.9159, 40.5255, 82.4848



67.5376, 78.7693, 106.2521



29.3599, 57.9151, 12.2633



13.8103, 16.3251, 22.6731



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.



31.9159, 40.5255, 82.4848



39.4832, 50.0864, 102.1944



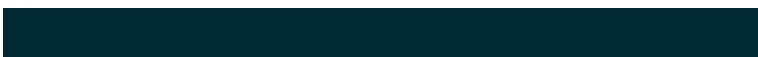
16.7347, 10.1631, 77.4244



14.5464, 15.8142, 18.4301



17.8082, 22.6784, 45.8220



1.3790, 1.8018, 3.4071



# Inverse Universe

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



42.0370, 20.6603, 47.6724



52.0585, 25.5874, 58.8994



46.2741, 43.1454, 5.8909



14.8634, 14.5625, 17.4810



23.3823, 11.4871, 26.7056

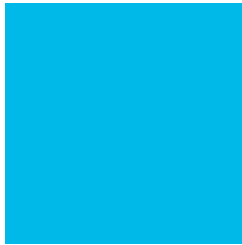


1.7597, 0.8616, 2.1409



# Previews

## White Background



This preview shows how the XYZ color 31.9145, 40.5241, 82.4838 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

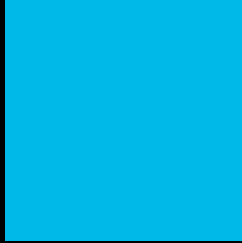
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 31.9145, 40.5241, 82.4838 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

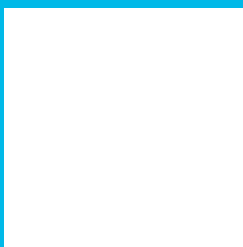
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 31.9145, 40.5241, 82.4838**

## **Background**



This preview shows how black text looks on a background with the XYZ color 31.9145, 40.5241, 82.4838.



This preview shows how white text looks on a background with the XYZ color 31.9145, 40.5241,



# 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

31.9145, 40.5241, 82.4838

### Protanopia

40.4991, 40.1877, 72.6403

### Deuteranopia

41.1756, 40.2644, 84.9585



## Tritanopia

28.9771, 40.7070, 62.8299

# Trichromacy



## Original Color

31.9145, 40.5241, 82.4838



## Protanomaly

33.7362, 38.3066, 76.1368



## Deuteranomaly

34.7475, 38.6499, 84.2261



## Tritanomaly

30.1208, 40.8215, 69.9101

# Monochromacy



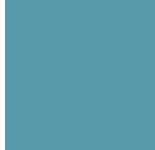
## Original Color

31.9145, 40.5241, 82.4838



## Achromatopsia

23.0288, 24.2281, 26.3844



## Achromatomaly

22.4847, 27.6632, 42.1847

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 31.9145, 40.5241, 82.4838 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, 185, 232)` looks like.

```
.text, #text, p{  
    color:rgb(0, 185, 232)  
}
```

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, 185, 232) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 185, 232) }
```

## Border

The CSS property to change the border of an element to XYZ 31.9145, 40.5241, 82.4838 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, 185, 232) }
```



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

```
.border{ border-color:rgb(0, 185, 232) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 185, 232)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 185, 232); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 185, 232);  
box-shadow:4px 4px 4px 4px rgb(0, 185,  
232) }
```

# Background

The CSS property to change the background color of an element to XYZ 31.9145, 40.5241, 82.4838 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 185, 232) }
```

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

```
.background{ background-color: rgb(0, 185,  
232) }
```

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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