

Converting Colors

XYZ(31.1824, 37.8720, 85.9023)

Have a look what the booklet for
XYZ(31.1824, 37.8720, 85.9023)
contains.

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Color

**XYZ(31.2065, 37.9552,
85.8021)**

Conversions

Conversions Part 1

Format	Color
Hex	00B2ED
RGB	0, 178, 237
RGB Percent	0%, 70%, 93%
CMY	0.9997, 0.3020, 0.0706
CMYK	1.00, 0.25, 0.00, 0.07
HSL	195°, 100%, 46%
HSV	195°, 100%, 93%
XYZ	31.2065, 37.9552, 85.8021
YIQ	131.5040, -125.0270, -19.3870

Conversions

Conversions Part 2

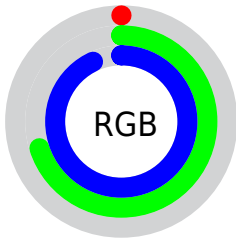
Format	Color
RYB	0, 102, 237
Decimal	45805
CIELab	67.99, -17.08, -39.93
CIELCh	68, 43.426, 246.840
Yxy	37.9552, 0.2014, 0.2449
Android (android.graphics.Color)	4278235885 (0xFF00B2ED)
YUV	131.5040, 52.0095, -115.3290
Hunter-Lab	61.6078, -17.3971, -39.4486

Details

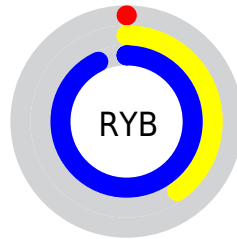
The XYZ color **31.2065, 37.9552, 85.8021** is a dark color, and the websafe version is hex **0099CC**. The color can be described as middle washed azure. A complement of this color would be **36.4933, 21.1399, 2.1590**, and the grayscale version is **21.6132, 22.7388, 24.7625**.

A 20% lighter version of the original color is **53.7795, 69.3168, 105.1528**, and **15.6741, 18.0034, 46.3650** is the 20% darker color. If you saturate the color by 10%, you get **31.2035, 37.9491, 85.8019**, and if you desaturate by 10%, it is **32.7779, 40.5468, 86.2203**.

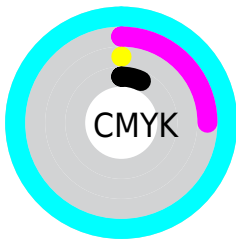
Distribution



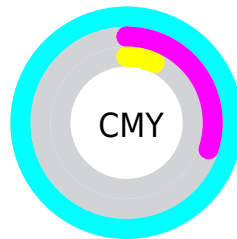
- Red (0%)
- Green (70%)
- Blue (93%)



- Red (0%)
- Yellow (40%)
- Blue (93%)



- Cyan (100%)
- Magenta (25%)
- Yellow (0%)
- Black (7%)



- Cyan (100%)
- Magenta (30%)
- Yellow (7%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 31.2065, 37.9552, 85.8021 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 31.2065, 37.9552, 85.8021 by changing the saturation by 10% instead.

31.2065, 37.9552,
85.8021

31.2065, 37.9552,
85.8021

299.2985,
337.4278, 534.4921

20.9087, 25.9479,
63.9504

60.9387, 72.0395,
143.3774

13.1694, 16.7847,
46.1646

81.1038, 94.8852,
179.9380

7.6231, 10.0811,
32.0261

105.2887,
122.1126, 222.2387

3.9045, 5.4528,
21.1164

133.8589,
154.1061, 270.6981

1.6482, 2.5153,
13.0171

167.1796,
191.2499, 325.7345

0.4235, 0.8843,
7.3094

205.6162,

0.0000, 0.0000,

233.9285, 387.7666

3.5750

249.5340,
282.5263, 457.2130

■ 0.0000, 0.0000,
1.3952

■ 0.0000, 0.0000,
0.1380

■ 31.2065, 37.9552,
85.8021

■ 31.2065, 37.9552,
85.8021

■ 31.2035, 37.9491,
85.8019

■ 32.7779, 40.5468,
86.2203

■ 34.8516, 43.4726,
86.6757

■ 37.5711, 46.8083,
87.1762

■ 41.0209, 50.5980,
87.7259

■ 45.2718, 54.8794,
88.3283

■ 50.3860, 59.6852,
88.9863

■ 56.4193, 65.0451,
89.7029

■ 63.4227, 70.9861,
90.4805

■ 71.4431, 77.5334,
91.3215

Harmonies

Analogous

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



26.6510, 37.9552, 67.8681



31.2065, 37.9552, 85.8021



37.6437, 37.9552, 90.3250

Triad

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



31.2065, 37.9552, 85.8021



50.5613, 37.9552, 37.0548



28.8377, 37.9552, 18.1412

Complementary

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



31.2065, 37.9552, 85.8021



36.4933, 21.1399, 2.1590

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.



34.5511, 37.9552, 14.3120



31.2065, 37.9552, 85.8021



47.4945, 37.9552, 22.8022

Square

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



31.2065, 37.9552, 85.8021



49.3761, 37.9552, 57.7421



41.4258, 37.9552, 15.7018



25.4073, 37.9552, 28.3608

Rectangle

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



31.2065, 37.9552, 85.8021



42.2600, 37.9552, 84.1702



41.4258, 37.9552, 15.7018



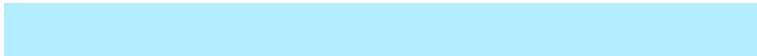
30.5255, 37.9552, 16.2372

Sweetspot

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



31.2079, 37.9565, 85.8031



66.5062, 76.7066, 105.9083



30.9835, 60.8487, 13.7710



13.5619, 15.8283, 22.5903



0.0000, 0.0000, 0.0000



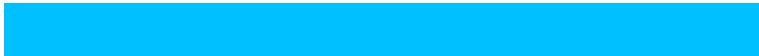
20.3446, 21.4041, 23.3091

Same Dimension

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



31.2079, 37.9565, 85.8031



36.7903, 44.7007, 101.2968



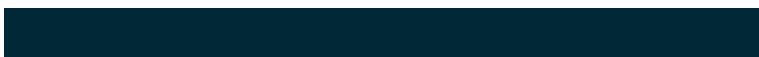
17.0786, 9.6979, 81.0933



15.1816, 16.4496, 19.2972



17.1450, 20.9370, 46.8806



1.4214, 1.7943, 3.7063

Inverse Universe

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



42.9622, 21.2207, 43.9521



50.6993, 25.0437, 51.7418



50.0270, 48.2072, 6.6702



15.5452, 15.2459, 18.1564



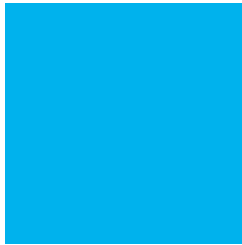
23.5093, 11.6064, 24.2811



1.8840, 0.9265, 2.1063

Previews

White Background



This preview shows how the XYZ color 31.2065, 37.9552, 85.8021 looks on a white background.

Color Contrast Check

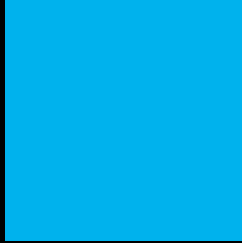
Large Text (above 18pt) WCAG AA × Fail

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 31.2065, 37.9552, 85.8021 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

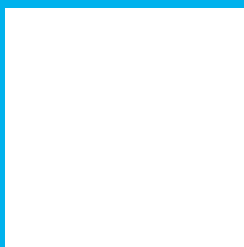
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 31.2065, 37.9552, 85.8021

Background



This preview shows how black text looks on a background with the XYZ color 31.2065, 37.9552, 85.8021.



This preview shows how white text looks on a background with the XYZ color 31.2065, 37.9552,

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

31.2065, 37.9552, 85.8021

Protanopia

38.3650, 37.3879, 76.4287

Deuteranopia

38.4982, 37.4722, 87.6419



Tritanopia

27.0115, 37.8982, 58.7147

Trichromacy



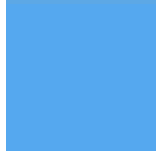
Original Color

31.2065, 37.9552, 85.8021



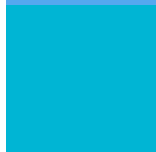
Protanomaly

32.6597, 35.9896, 79.3541



Deuteranomaly

33.3289, 36.1686, 86.8860



Tritanomaly

28.4075, 37.8012, 68.0865

Monochromacy



Original Color

31.2065, 37.9552, 85.8021



Achromatopsia

21.9318, 23.0740, 25.1276



Achromatomaly

21.6593, 26.2820, 41.9616

CSS Examples

Text

The CSS property to change the color of the text to XYZ 31.2065, 37.9552, 85.8021 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, 178, 237)` looks like.

```
.text, #text, p{  
    color:rgb(0, 178, 237)  
}
```

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, 178, 237) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 178, 237) }
```

Border

The CSS property to change the border of an element to XYZ 31.2065, 37.9552, 85.8021 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, 178, 237) }
```


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

```
.border{ border-color:rgb(0, 178, 237) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 178, 237)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 178, 237); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 178, 237);  
box-shadow:4px 4px 4px 4px rgb(0, 178,  
237) }
```

Background

The CSS property to change the background color of an element to XYZ 31.2065, 37.9552, 85.8021 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 178, 237) }
```

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

```
.background{ background-color: rgb(0, 178,  
237) }
```

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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