

Converting Colors

XYZ(31.2159, 37.9720, 87.5861)

Have a look what the booklet for
XYZ(31.2159, 37.9720, 87.5861)
contains.

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Color

**XYZ(31.5004, 38.0728,
87.3499)**

Conversions

Conversions Part 1

Format	Color
Hex	00B2EF
RGB	0, 178, 239
RGB Percent	0%, 70%, 94%
CMY	0.9997, 0.3020, 0.0627
CMYK	1.00, 0.26, 0.00, 0.06
HSL	195°, 100%, 47%
HSV	195°, 100%, 94%
XYZ	31.5004, 38.0728, 87.3499
YIQ	131.7320, -125.6690, -18.7650

Conversions

Conversions Part 2

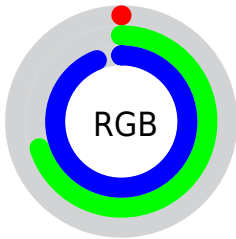
Format	Color
RYB	0, 102, 239
Decimal	45807
CIELab	68.07, -16.37, -40.88
CIELCh	68, 44.038, 248.173
Yxy	38.0728, 0.2007, 0.2426
Android (android.graphics.Color)	4278235887 (0xFF00B2EF)
YUV	131.7320, 52.8831, -115.5290
Hunter-Lab	61.7032, -16.8536, -40.7415

Details

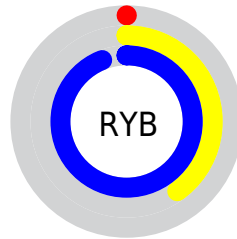
The XYZ color **31.5004, 38.0728, 87.3499** is a dark color, and the websafe version is hex **0099CC**. The color can be described as middle washed azure. A complement of this color would be **37.2696, 21.6956, 2.2253**, and the grayscale version is **21.6916, 22.8212, 24.8523**.

A 20% lighter version of the original color is **53.7795, 69.3168, 105.1528**, and **15.8809, 18.0861, 47.4537** is the 20% darker color. If you saturate the color by 10%, you get **31.4975, 38.0669, 87.3497**, and if you desaturate by 10%, it is **33.1181, 40.7499, 87.7822**.

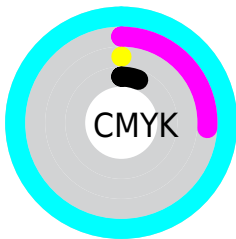
Distribution



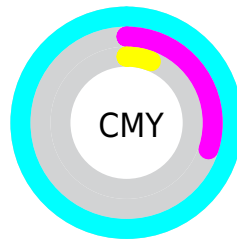
- Red (0%)
- Green (70%)
- Blue (94%)



- Red (0%)
- Yellow (40%)
- Blue (94%)



- Cyan (100%)
- Magenta (26%)
- Yellow (0%)
- Black (6%)



- Cyan (100%)
- Magenta (30%)
- Yellow (6%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 31.5004, 38.0728, 87.3499 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 31.5004, 38.0728, 87.3499 by changing the saturation by 10% instead.

■ 31.5004, 38.0728,
87.3499

■ 31.5004, 38.0728,
87.3499

300.6230,
337.9322, 539.7180

■ 21.1339, 26.0392,
65.2235

■ 61.3975, 72.2197,
145.5549

■ 13.3349, 16.8530,
47.1899

■ 81.6589, 95.1018,
182.4706

■ 7.7382, 10.1297,
32.8303

■ 105.9492,
122.3688, 225.1532

■ 3.9783, 5.4850,
21.7265

■ 134.6339,
154.4052, 274.0212

■ 1.6898, 2.5346,
13.4597

■ 168.0782,
191.5954, 329.4931

■ 0.4499, 0.8939,
7.6114

206.6476,

■ 0.0000, 0.0000,

234.3236, 391.9875

3.7631

250.7074,
282.9744, 461.9230

■ 0.0000, 0.0000,
1.4963

■ 0.0000, 0.0000,
0.2152

■ 31.5004, 38.0728,
87.3499

■ 31.5004, 38.0728,
87.3499

■ 31.4975, 38.0669,
87.3497

■ 33.1181, 40.7499,
87.7822

■ 35.2507, 43.7731,
88.2533

■ 38.0445, 47.2193,
88.7712

■ 41.5856, 51.1338,
89.3402

■ 45.9464, 55.5551,
89.9637

■ 51.1906, 60.5168,
90.6450

■ 57.3751, 66.0492,
91.3869

■ 64.5518, 72.1801,
92.1921

■ 72.7690, 78.9351,
93.0628

Harmonies

Analogous

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



26.7751, 38.0728, 69.4646



31.5004, 38.0728, 87.3499



38.0952, 38.0728, 91.2267

Triad

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



31.5004, 38.0728, 87.3499



50.8792, 38.0728, 36.3120



28.6306, 38.0728, 18.2817

Complementary

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



31.5004, 38.0728, 87.3499



37.2696, 21.6956, 2.2253

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.



34.3437, 38.0728, 14.1754



31.5004, 38.0728, 87.3499



47.5805, 38.0728, 22.2139

Square

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



31.5004, 38.0728, 87.3499



49.8672, 38.0728, 57.1486



41.3169, 38.0728, 15.3429



25.2699, 38.0728, 28.9344

Rectangle

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



31.5004, 38.0728, 87.3499



42.7800, 38.0728, 84.4764



41.3169, 38.0728, 15.3429



30.3089, 38.0728, 16.2723

Sweetspot

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



31.5018, 38.0741, 87.3509



66.3681, 76.4303, 105.8623



31.6780, 62.0582, 14.5562



13.5287, 15.7619, 22.5793



0.0000, 0.0000, 0.0000



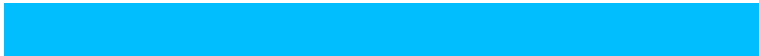
20.3446, 21.4041, 23.3091

Same Dimension

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



31.5018, 38.0741, 87.3509



36.4417, 44.0034, 101.1806



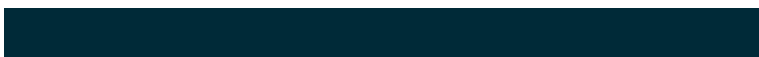
17.1864, 9.4433, 82.5791



15.8859, 17.2059, 20.2054



17.5168, 21.2579, 48.3078



1.5364, 1.9267, 4.0451

Inverse Universe

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



43.6338, 21.5668, 43.9836



50.5233, 24.9733, 50.8151



51.7711, 50.6986, 7.0591



16.2718, 15.9584, 18.9877



24.1673, 11.9393, 24.5954



2.0504, 1.0092, 2.2564

Previews

White Background



This preview shows how the XYZ color 31.5004, 38.0728, 87.3499 looks on a white background.

Color Contrast Check

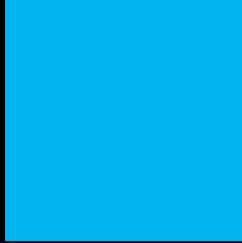
Large Text (above 18pt) WCAG AA × Fail

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 31.5004, 38.0728, 87.3499 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

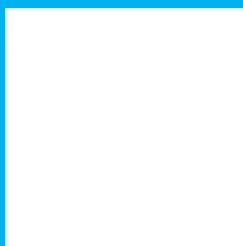
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 31.5004, 38.0728, 87.3499

Background



This preview shows how black text looks on a background with the XYZ color 31.5004, 38.0728, 87.3499.

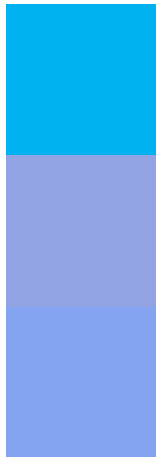


This preview shows how white text looks on a background with the XYZ color 31.5004, 38.0728,

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

31.5004, 38.0728, 87.3499

Protanopia

38.8164, 37.8514, 77.9333

Deuteranopia

38.8182, 37.8673, 89.2676



Tritanopia

27.0115, 37.8982, 58.7147

Trichromacy



Original Color

31.5004, 38.0728, 87.3499

Protanomaly

32.9406, 36.1019, 80.8335

Deuteranomaly

33.7213, 36.6116, 88.5085

Tritanomaly

28.4075, 37.8012, 68.0865

Monochromacy



Original Color

31.5004, 38.0728, 87.3499

Achromatopsia

21.9318, 23.0740, 25.1276

Achromatomaly

21.7543, 26.3200, 42.4618

CSS Examples

Text

The CSS property to change the color of the text to XYZ 31.5004, 38.0728, 87.3499 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, 239)` looks like.

```
.text, #text, p{  
    color:rgb(0, 178, 239)  
}
```

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, 239) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 178, 239) }
```

Border

The CSS property to change the border of an element to XYZ 31.5004, 38.0728, 87.3499 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, 239) }
```


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

```
.border{ border-color:rgb(0, 178, 239) }
```

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, 239)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 178, 239); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 178, 239);  
box-shadow:4px 4px 4px 4px rgb(0, 178,  
239) }
```

Background

The CSS property to change the background color of an element to XYZ 31.5004, 38.0728, 87.3499 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, 239) }
```

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

```
.background{ background-color: rgb(0, 178,  
239) }
```

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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