

Converting Colors

XYZ(28.9301, 31.7824, 89.2908)

Have a look what the booklet for
XYZ(28.9301, 31.7824, 89.2908)
contains.

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Color

**XYZ(28.9001, 31.6908,
89.3878)**

Conversions

Conversions Part 1

Format	Color
Hex	0CA0F3
RGB	12, 160, 243
RGB Percent	5%, 63%, 95%
CMY	0.9527, 0.3725, 0.0471
CMYK	0.95, 0.34, 0.00, 0.05
HSL	202°, 91%, 50%
HSV	202°, 95%, 95%
XYZ	28.9001, 31.6908, 89.3878
YIQ	125.2100, -114.8510, -5.5630

Conversions

Conversions Part 2

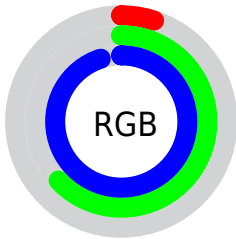
Format	Color
R _Y B	12, 102, 243
Decimal	827635
CIE Lab	63.09, -4.67, -50.91
CIE LCh	63, 51.128, 264.759
Yxy	31.6908, 0.1927, 0.2113
Android (android.graphics.Color)	4279017715 (0xFF0CA0F3)
YUV	125.2100, 58.0705, -99.2852
Hunter-Lab	56.2946, -6.8785, -54.7379

Details

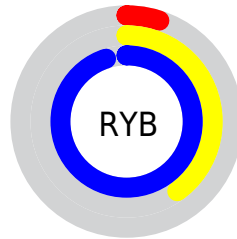
The XYZ color **28.9001, 31.6908, 89.3878** is a dark color, and the websafe version is hex **0099FF**. The color can be described as middle saturated azure. A complement of this color would be **41.1271, 27.2774, 3.4473**, and the grayscale version is **19.4087, 20.4195, 22.2368**.

A 20% lighter version of the original color is **48.6521, 58.6926, 103.3723**, and **14.3316, 14.4824, 48.4944** is the 20% darker color. If you saturate the color by 10%, you get **28.0102, 30.1360, 89.1353**, and if you desaturate by 10%, it is **31.0568, 35.1301, 89.9387**.

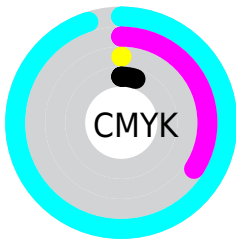
Distribution



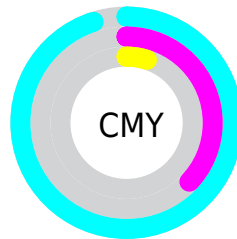
- Red (5%)
- Green (63%)
- Blue (95%)



- Red (5%)
- Yellow (40%)
- Blue (95%)



- Cyan (95%)
- Magenta (34%)
- Yellow (0%)
- Black (5%)



- Cyan (95%)
- Magenta (37%)
- Yellow (5%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 28.9001, 31.6908, 89.3878 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 28.9001, 31.6908, 89.3878 by changing the saturation by 10% instead.

■ 28.9001, 31.6908,
89.3878

■ 28.9001, 31.6908,
89.3878

288.7460,
309.7083, 546.5560

■ 19.1492, 21.1254,
66.9021

■ 57.3170, 62.3260,
148.4158

■ 11.8828, 13.2157,
48.5440

■ 76.7136, 83.1647,
185.7952

■ 6.7355, 7.5773,
33.8949

■ 100.0563,
108.1966, 228.9764

■ 3.3421, 3.8257,
22.5361

■ 127.7102,
137.8061, 278.3777

■ 1.3372, 1.5765,
14.0493

■ 160.0408,
172.3777, 334.4178

■ 0.2108, 0.3417,
8.0158

197.4134,

■ 0.0000, 0.0000,

212.2956, 397.5152

4.0172

240.1933,
257.9444, 468.0884

■ 0.0000, 0.0000,
1.6348

■ 0.0000, 0.0000,
0.3154

■ 28.9001, 31.6908,
89.3878

■ 28.9001, 31.6908,
89.3878

■ 28.0102, 30.1360,
89.1353

■ 31.0568, 35.1301,
89.9387

■ 33.8964, 39.0822,
90.5518

■ 37.5223, 43.6037,
91.2335

■ 42.0176, 48.7404,
91.9880

■ 47.4542, 54.5322,
92.8194

■ 53.8959, 61.0149,
93.7312

■ 61.4004, 68.2210,
94.7266

■ 70.0210, 76.1805,
95.8086

■ 79.8072, 84.9217,
96.9800

Harmonies

Analogous

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



22.9581, 31.6908, 76.9070



28.9001, 31.6908, 89.3878



36.1613, 31.6908, 83.1164

Triad

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



28.9001, 31.6908, 89.3878



44.1807, 31.6908, 20.6690



20.3524, 31.6908, 16.6053

Complementary

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



28.9001, 31.6908, 89.3878



41.1271, 27.2774, 3.4473

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.



24.7941, 31.6908, 9.8981



28.9001, 31.6908, 89.3878



38.6378, 31.6908, 11.5216

Square

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



28.9001, 31.6908, 89.3878



45.7338, 31.6908, 38.1741



31.3761, 31.6908, 8.4894



18.5401, 31.6908, 31.0806

Rectangle

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



28.9001, 31.6908, 89.3878



40.7076, 31.6908, 70.0568



31.3761, 31.6908, 8.4894



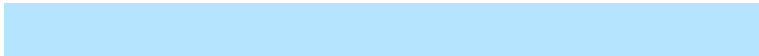
21.5504, 31.6908, 13.6314

Sweetspot

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



28.9013, 31.6918, 89.3886



64.9775, 72.7692, 105.2289



34.1744, 64.9688, 21.0698



13.1546, 14.8486, 22.4227



0.0000, 0.0000, 0.0000



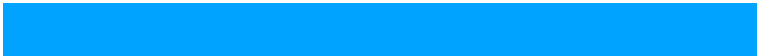
20.3446, 21.4041, 23.3091

Same Dimension

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



28.9013, 31.6918, 89.3886



31.2098, 33.5396, 99.4366



17.3350, 8.5592, 85.5332



16.4666, 17.6974, 21.0906



15.5052, 16.8041, 48.9643



1.4598, 1.6711, 4.3358

Inverse Universe

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



43.4400, 21.8575, 35.1877



47.8825, 23.9170, 36.9088



59.6731, 64.3692, 9.6293



16.9461, 16.6613, 19.4626



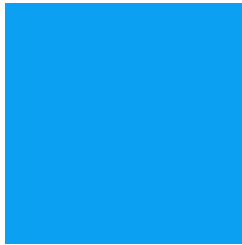
23.6308, 11.7958, 18.5620



2.1259, 1.0563, 1.8895

Previews

White Background



This preview shows how the XYZ color 28.9001, 31.6908, 89.3878 looks on a white background.

Color Contrast Check

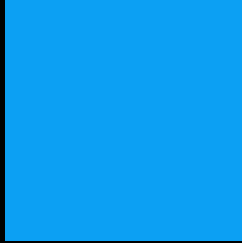
Large Text (above 18pt) WCAG AA × Fail

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 28.9001, 31.6908, 89.3878 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

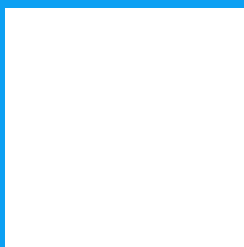
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 28.9001, 31.6908, 89.3878

Background



This preview shows how black text looks on a background with the XYZ color 28.9001, 31.6908, 89.3878.



This preview shows how white text looks on a background with the XYZ color 28.9001, 31.6908,

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

28.9001, 31.6908, 89.3878

Protanopia

33.3406, 31.4430, 81.4027

Deuteranopia

32.5335, 31.5358, 90.7585



Tritanopia

22.5285, 31.7121, 48.6497

Trichromacy



Original Color

28.9001, 31.6908, 89.3878

Protanomaly

30.0706, 30.6462, 84.4512

Deuteranomaly

30.2305, 31.0982, 89.9972

Tritanomaly

24.5854, 31.6579, 61.9415

Monochromacy



Original Color

28.9001, 31.6908, 89.3878

Achromatopsia

19.4927, 20.5079, 22.3331

Achromatomaly

19.8125, 22.8889, 40.4196

CSS Examples

Text

The CSS property to change the color of the text to XYZ 28.9001, 31.6908, 89.3878 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(12, 160, 243)` looks like.

```
.text, #text, p{  
    color:rgb(12, 160, 243)  
}
```

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(12, 160, 243) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(12, 160, 243) }
```

Border

The CSS property to change the border of an element to XYZ 28.9001, 31.6908, 89.3878 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(12, 160, 243) }
```


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

```
.border{ border-color:rgb(12, 160, 243) }
```

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

Here you see how a box with a 4 pixel `rgb(12, 160, 243)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(12, 160, 243); -webkit-box-  
shadow:4px 4px 4px 4px rgb(12, 160, 243);  
box-shadow:4px 4px 4px 4px rgb(12, 160,  
243) }
```

Background

The CSS property to change the background color of an element to XYZ 28.9001, 31.6908, 89.3878 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(12, 160, 243) }
```

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

```
.background{ background-color: rgb(12, 160,  
243) }
```

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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