

# Converting Colors

XYZ(29.0898, 30.0277, 96.2981)

Have a look what the booklet for  
XYZ(29.0898, 30.0277, 96.2981)  
contains.

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# Color

**XYZ(29.1638, 30.1588,  
96.3796)**

# Conversions

## Conversions Part 1

Format	Color
Hex	039AFC
RGB	3, 154, 252
RGB Percent	1%, 60%, 99%
CMY	0.9880, 0.3961, 0.0118
CMYK	0.99, 0.39, 0.00, 0.01
HSL	204°, 98%, 50%
HSV	204°, 99%, 99%
XYZ	29.1638, 30.1588, 96.3796
YIQ	120.0230, -121.4540, -1.5340

# Conversions

## Conversions Part 2

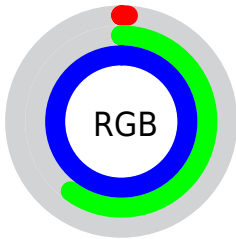
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	3, 97, 252
Decimal	236284
CIE Lab	61.79, 1.93, -57.91
CIE LCh	62, 57.941, 271.912
Yxy	30.1588, 0.1873, 0.1937
Android (android.graphics.Color)	4278426364 (0xFF039AFC)
YUV	120.0230, 65.0647, -102.6292
Hunter-Lab	54.9170, -1.3120, -65.6123

# Details

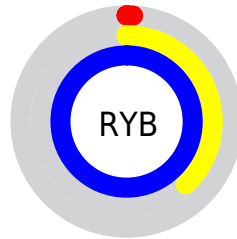
The XYZ color **29.1638, 30.1588, 96.3796** is a dark color, and the websafe version is hex **0099FF**. The color can be described as middle saturated azure. A complement of this color would be **44.8226, 30.0236, 3.5209**, and the grayscale version is **17.6937, 18.6151, 20.2718**.

A 20% lighter version of the original color is **47.2880, 55.7765, 102.8813**, and **14.8006, 13.8408, 53.5212** is the 20% darker color. If you saturate the color by 10%, you get **28.9280, 29.7427, 96.3124**, and if you desaturate by 10%, it is **31.3187, 33.8021, 96.9699**.

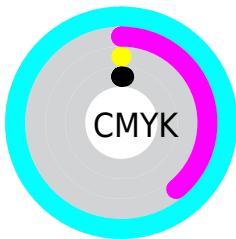
# Distribution



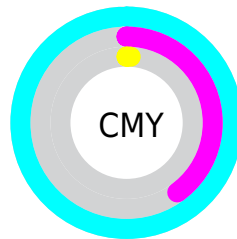
- Red (1%)
- Green (60%)
- Blue (99%)



- Red (1%)
- Yellow (38%)
- Blue (99%)



- Cyan (99%)
- Magenta (39%)
- Yellow (0%)
- Black (1%)



- Cyan (99%)
- Magenta (40%)
- Yellow (1%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 29.1638, 30.1588, 96.3796 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 29.1638, 30.1588, 96.3796 by changing the saturation by 10% instead.



■ 29.1638, 30.1588,  
96.3796

■ 29.1638, 30.1588,  
96.3796

289.9673,  
302.6440, 569.6690

■ 19.3497, 19.9592,  
72.6805

■ 57.7330, 59.9132,  
158.1811

■ 12.0287, 12.3654,  
53.2245

■ 77.2188, 80.2368,  
197.1207

■ 6.8356, 6.9930,  
37.5931

■ 100.6591,  
104.7038, 241.9775

■ 3.4049, 3.4577,  
25.3677

■ 128.4194,  
133.6986, 293.1701

■ 1.3713, 1.3751,  
16.1297

■ 160.8651,  
167.6056, 351.1170

■ 0.2357, 0.1983,  
9.4606

198.3613,

■ 0.0000, 0.0000,

206.8093, 416.2367

4.9419

241.2736,  
251.6939, 488.9479

■ 0.0000, 0.0000,  
2.1551

■ 0.0000, 0.0000,  
0.6483

■ 29.1638, 30.1588,  
96.3796

■ 29.1638, 30.1588,  
96.3796

■ 28.9280, 29.7427,  
96.3124

■ 31.3187, 33.8021,  
96.9699

■ 34.1697, 38.0095,  
97.6318

■ 37.8595, 42.8595,  
98.3735

■ 42.4866, 48.4071,  
99.2004

■ 48.1343, 54.6996,  
100.1173

■ 54.8760, 61.7789,  
101.1284

■ 62.7780, 69.6832,  
102.2376

■ 71.9007, 78.4475,  
103.4485

■ 82.3002, 88.1047,  
104.7644

# Harmonies

## Analogous

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



22.2224, 30.1588, 86.5111



29.1638, 30.1588, 96.3796



37.2598, 30.1588, 83.8302

# Triad

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



29.1638, 30.1588, 96.3796



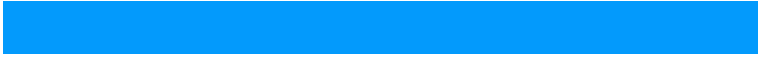
43.2198, 30.1588, 15.0872



17.4522, 30.1588, 16.5998

# Complementary

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



29.1638, 30.1588, 96.3796



44.8226, 30.0236, 3.5209

# 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.



21.5054, 30.1588, 8.3404



29.1638, 30.1588, 96.3796



36.2461, 30.1588, 7.7837

# Square

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



29.1638, 30.1588, 96.3796



46.2294, 30.1588, 31.4380



28.1720, 30.1588, 6.0252

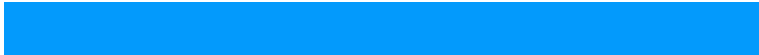


16.2306, 30.1588, 34.2786



# Rectangle

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



29.1638, 30.1588, 96.3796



42.0237, 30.1588, 66.7077



28.1720, 30.1588, 6.0252



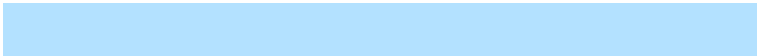
18.4878, 30.1588, 12.9598

# Sweetspot

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



29.1651, 30.1597, 96.3804



63.4187, 70.5315, 104.8792



37.0772, 70.5324, 23.3380



12.8230, 14.3506, 22.3440



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.



29.1651, 30.1597, 96.3804



29.7066, 30.5332, 98.9355



18.1288, 8.0873, 92.7017



17.1588, 18.3944, 22.0314



15.2166, 15.7888, 50.2191



1.5126, 1.6689, 4.6856



# Inverse Universe

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



46.0114, 23.0954, 32.6051



47.1237, 23.6135, 32.9132



66.5388, 73.4558, 10.7596



17.6867, 17.4020, 20.2059



23.9727, 12.0048, 17.0963

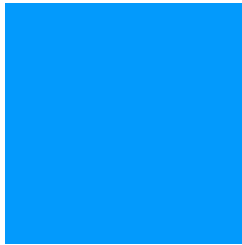


2.2724, 1.1327, 1.8579



# Previews

## White Background



This preview shows how the XYZ color 29.1638, 30.1588, 96.3796 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

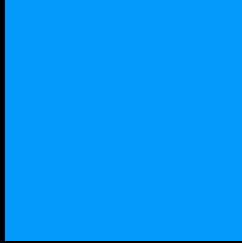
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 29.1638, 30.1588, 96.3796 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

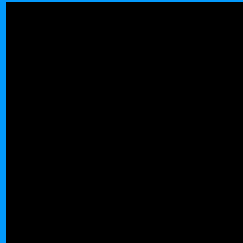
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

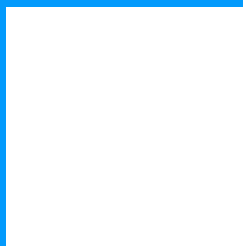
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 29.1638, 30.1588, 96.3796**

## **Background**



This preview shows how black text looks on a background with the XYZ color 29.1638, 30.1588, 96.3796.



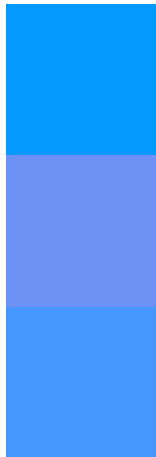
This preview shows how white text looks on a background with the XYZ color 29.1638, 30.1588,



# 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

29.1638, 30.1588, 96.3796

### Protanopia

32.7612, 30.0337, 89.6583

### Deuteranopia

31.2345, 30.2441, 97.1200



## Tritanopia

21.2916, 30.0449, 45.7513

# Trichromacy



## Original Color

29.1638, 30.1588, 96.3796

## Protanomaly

29.9042, 29.1973, 92.0552

## Deuteranomaly

29.9229, 29.8059, 97.1045

## Tritanomaly

23.6565, 29.8558, 61.6427

# Monochromacy



## Original Color

29.1638, 30.1588, 96.3796

## Achromatopsia

17.8524, 18.7821, 20.4537

## Achromatomaly

18.3797, 20.9075, 40.1126

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 29.1638, 30.1588, 96.3796 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(3, 154, 252)` looks like.

```
.text, #text, p{  
    color:rgb(3, 154, 252)  
}
```

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(3, 154, 252) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(3, 154, 252) }
```

## Border

The CSS property to change the border of an element to XYZ 29.1638, 30.1588, 96.3796 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(3, 154, 252) }
```



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

```
.border{ border-color:rgb(3, 154, 252) }
```

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

Here you see how a box with a 4 pixel `rgb(3, 154, 252)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(3, 154, 252); -webkit-box-  
shadow:4px 4px 4px 4px rgb(3, 154, 252);  
box-shadow:4px 4px 4px 4px rgb(3, 154,  
252) }
```

# Background

The CSS property to change the background color of an element to XYZ 29.1638, 30.1588, 96.3796 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(3, 154, 252) }
```

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

```
.background{ background-color: rgb(3, 154,  
252) }
```

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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