

# Converting Colors

XYZ(23.7577, 27.0078, 90.2652)

Have a look what the booklet for  
XYZ(23.7577, 27.0078, 90.2652)  
contains.

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# Color

**XYZ(27.7097, 29.0490,  
90.5328)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	0098F5
RGB	0, 152, 245
RGB Percent	0%, 60%, 96%
CMY	0.9997, 0.4039, 0.0392
CMYK	1.00, 0.38, 0.00, 0.04
HSL	203°, 100%, 48%
HSV	203°, 100%, 96%
XYZ	27.7097, 29.0490, 90.5328
YIQ	117.1540, -120.4450, -3.3010

# Conversions

## Conversions Part 2

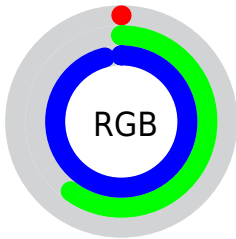
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	0, 94, 245
Decimal	39157
CIE Lab	60.82, 0.40, -55.61
CIE LCh	61, 55.612, 270.409
Yxy	29.0490, 0.1881, 0.1972
Android (android.graphics.Color)	4278229237 (0xFF0098F5)
YUV	117.1540, 63.0281, -102.7441
Hunter-Lab	53.8971, -2.5492, -61.8634

# Details

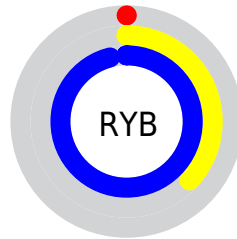
The XYZ color **27.7097, 29.0490, 90.5328** is a dark color, and the websafe version is hex **0099FF**. The color can be described as middle saturated azure. A complement of this color would be **41.5778, 27.2547, 3.0714**, and the grayscale version is **16.8011, 17.6760, 19.2492**.

A 20% lighter version of the original color is **46.4280, 54.6138, 102.7022**, and **13.8285, 13.1336, 49.3831** is the 20% darker color. If you saturate the color by 10%, you get **27.7053, 29.0402, 90.5320**, and if you desaturate by 10%, it is **29.6701, 32.3900, 91.0750**.

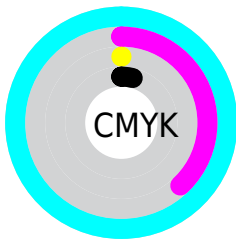
# Distribution



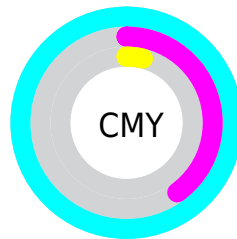
- Red (0%)
- Green (60%)
- Blue (96%)



- Red (0%)
- Yellow (37%)
- Blue (96%)



- Cyan (100%)
- Magenta (38%)
- Yellow (0%)
- Black (4%)




- Cyan (100%)
- Magenta (40%)
- Yellow (4%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 27.7097, 29.0490, 90.5328 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 27.7097, 29.0490, 90.5328 by changing the saturation by 10% instead.




 27.7097, 29.0490,  
90.5328


 27.7097, 29.0490,  
90.5328


283.1824,  
297.4461, 550.3773


 18.2463, 19.1179,  
67.8464


 55.4325, 58.1549,  
150.0202

 11.2277, 11.7555,  
49.3069


 74.4226, 78.0985,  
187.6584


 6.2886, 6.5774,  
34.4957


 97.3190, 102.1484,  
231.1175

 3.0637, 3.1993,  
22.9942

 124.4870,  
130.6890, 280.8162

 1.1875, 1.2366,  
14.3840

 156.2920,  
164.1047, 337.1730

 0.0965, 0.0913,  
8.2464

193.0993,

 0.0000, 0.0000,

202.7798, 400.6064

4.1630

235.2744,  
247.0988, 471.5350

■ 0.0000, 0.0000,  
1.7152

■ 0.0000, 0.0000,  
0.3711

■ 27.7097, 29.0490,  
90.5328

■ 27.7097, 29.0490,  
90.5328

■ 27.7053, 29.0402,  
90.5320

■ 29.6701, 32.3900,  
91.0750

■ 32.2405, 36.2249,  
91.6797

■ 35.5760, 40.6376,  
92.3557

■ 39.7700, 45.6801,  
93.1079

■ 44.9014, 51.3964,  
93.9408

■ 51.0393, 57.8257,  
94.8583

■ 58.2458, 65.0034,  
95.8639

■ 66.5779, 72.9620,  
96.9609

■ 76.0881, 81.7318,  
98.1524

# Harmonies

## Analogous

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



21.2951, 29.0490, 80.4588



27.7097, 29.0490, 90.5328



35.2668, 29.0490, 79.9296

# Triad

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



27.7097, 29.0490, 90.5328



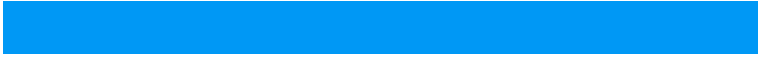
41.4285, 29.0490, 15.4460



17.1945, 29.0490, 15.7538

# Complementary

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



27.7097, 29.0490, 90.5328



41.5778, 27.2547, 3.0714

# 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.



21.1507, 29.0490, 8.2105



27.7097, 29.0490, 90.5328



35.0646, 29.0490, 8.0953

# Square

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



27.7097, 29.0490, 90.5328



43.9871, 29.0490, 31.3457



27.5109, 29.0490, 6.1765



15.9053, 29.0490, 31.9149



# Rectangle

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



27.7097, 29.0490, 90.5328



39.7770, 29.0490, 64.4176



27.5109, 29.0490, 6.1765



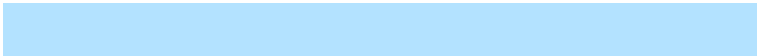
18.2180, 29.0490, 12.4278

# Sweetspot

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



27.7109, 29.0499, 90.5336



63.7085, 71.1111, 104.9758



34.4940, 66.0420, 20.5757



12.8921, 14.4886, 22.3670



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

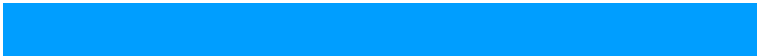


# Same Dimension

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



27.7109, 29.0499, 90.5336



30.3067, 31.7334, 99.1356



17.0189, 7.6660, 86.9696



16.4373, 17.6390, 21.0809



15.0631, 15.9199, 48.8170



1.4228, 1.5970, 4.3235



# Inverse Universe

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



43.3249, 21.6813, 31.6076



47.4266, 23.7346, 34.5083



61.2865, 66.6720, 9.6410



16.9313, 16.6554, 19.3849



23.4077, 11.7065, 17.3870



2.1072, 1.0489, 1.7911



# Previews

## White Background



This preview shows how the XYZ color 27.7097, 29.0490, 90.5328 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

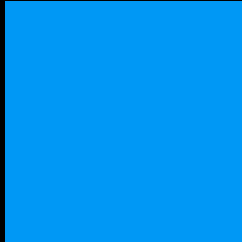
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 27.7097, 29.0490, 90.5328 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

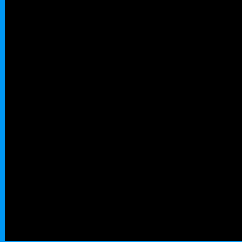
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

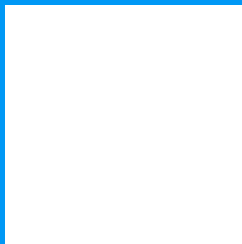
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 27.7097, 29.0490, 90.5328**

## **Background**



This preview shows how black text looks on a background with the XYZ color 27.7097, 29.0490, 90.5328.



This preview shows how white text looks on a background with the XYZ color 27.7097, 29.0490,



# 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

27.7097, 29.0490, 90.5328

### Protanopia

31.2695, 28.9523, 83.2971

### Deuteranopia

29.9699, 29.0171, 91.2101



## Tritanopia

20.5603, 28.8967, 44.5384

# Trichromacy



**Original Color**

27.7097, 29.0490, 90.5328

**Protanomaly**

28.3131, 28.0550, 85.5842

**Deuteranomaly**

28.6009, 28.7771, 91.2359

**Tritanomaly**

22.6522, 28.6239, 58.9746

# Monochromacy



**Original Color**

27.7097, 29.0490, 90.5328

**Achromatopsia**

16.9083, 17.7888, 19.3720

**Achromatomaly**

17.5075, 20.1014, 38.0792

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 27.7097, 29.0490, 90.5328 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, 152, 245)` looks like.

```
.text, #text, p{  
    color:rgb(0, 152, 245)  
}
```

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, 152, 245) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 152, 245) }
```

## Border

The CSS property to change the border of an element to XYZ 27.7097, 29.0490, 90.5328 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, 152, 245) }
```



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

```
.border{ border-color:rgb(0, 152, 245) }
```

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

Here you see how a box with a 4 pixel rgb(0, 152, 245) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 152, 245); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 152, 245);  
box-shadow:4px 4px 4px 4px rgb(0, 152,  
245) }
```

# Background

The CSS property to change the background color of an element to XYZ 27.7097, 29.0490, 90.5328 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 152, 245) }
```

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

```
.background{ background-color: rgb(0, 152,  
245) }
```

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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