

# Converting Colors

XYZ(27.7949, 29.9203, 85.9600)

Have a look what the booklet for  
XYZ(27.7949, 29.9203, 85.9600)  
contains.

<b>XYZ(27.8080, 29.9359, 85.9739)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(27.8080, 29.9359,  
85.9739)**

# Conversions

## Conversions Part 1

Format	Color
Hex	1D9BEF
RGB	29, 155, 239
RGB Percent	11%, 61%, 94%
CMY	0.8862, 0.3922, 0.0627
CMYK	0.88, 0.35, 0.00, 0.06
HSL	204°, 87%, 53%
HSV	204°, 88%, 94%
XYZ	27.8080, 29.9359, 85.9739
YIQ	126.9020, -102.0600, -0.5880

# Conversions

## Conversions Part 2

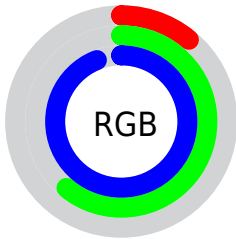
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	29, 108, 239
Decimal	1940463
CIE Lab	61.60, -2.55, -51.06
CIE LCh	62, 51.128, 267.144
Yxy	29.9359, 0.1935, 0.2083
Android (android.graphics.Color)	4280130543 (0xFF1D9BEF)
YUV	126.9020, 55.2643, -85.8601
Hunter-Lab	54.7137, -5.0272, -54.8652

# Details

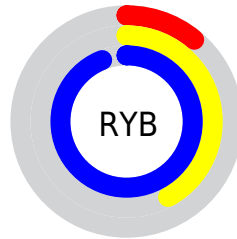
The XYZ color **27.8080, 29.9359, 85.9739** is a dark color, and the websafe version is hex **0099FF**. The color can be described as middle washed azure. A complement of this color would be **41.7271, 30.2560, 4.8049**, and the grayscale version is **19.9840, 21.0247, 22.8959**.

A 20% lighter version of the original color is **47.7899, 56.3983, 102.9749**, and **13.3938, 13.2780, 46.1130** is the 20% darker color. If you saturate the color by 10%, you get **25.8371, 26.6508, 85.4443**, and if you desaturate by 10%, it is **30.4209, 33.7397, 86.5711**.

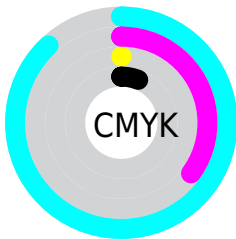
# Distribution



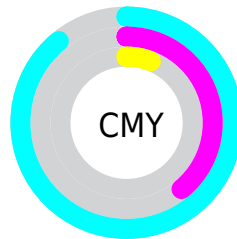
- Red (11%)
- Green (61%)
- Blue (94%)



- Red (11%)
- Yellow (42%)
- Blue (94%)



- Cyan (88%)
- Magenta (35%)
- Yellow (0%)
- Black (6%)



- Cyan (89%)
- Magenta (39%)
- Yellow (6%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 27.8080, 29.9359, 85.9739 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 27.8080, 29.9359, 85.9739 by changing the saturation by 10% instead.



■ 27.8080, 29.9359,  
85.9739

■ 27.8080, 29.9359,  
85.9739

283.6451,  
301.6056, 535.0735

■ 18.3207, 19.7899,  
64.0916

■ 55.5885, 59.5608,  
143.6193

■ 11.2816, 12.2424,  
46.2782

■ 74.6125, 79.8085,  
180.2195

■ 6.3252, 6.9090,  
32.1152

■ 97.5460, 104.1923,  
222.5627

■ 3.0864, 3.4053,  
21.1839

■ 124.7545,  
133.0965, 271.0675

■ 1.1996, 1.3468,  
13.0660

■ 156.6033,  
166.9055, 326.1525

■ 0.1061, 0.1770,  
7.3427

193.4578,

■ 0.0000, 0.0000,

206.0038, 388.2361

3.5957

235.6832,  
250.7757, 457.7370

■ 0.0000, 0.0000,  
1.4063

■ 0.0000, 0.0000,  
0.1466

■ 27.8080, 29.9359,  
85.9739

■ 27.8080, 29.9359,  
85.9739

■ 25.8371, 26.6508,  
85.4443

■ 30.4209, 33.7397,  
86.5711

■ 25.4611, 25.9940,  
85.3374

■ 33.7868, 38.1227,  
87.2396

■ 37.9917, 43.1333,  
87.9852

■ 43.1078, 48.8130,  
88.8118

■ 49.1991, 55.1983,  
89.7233

■ 56.3233, 62.3227,  
90.7229

■ 64.5332, 70.2171,  
91.8140

■ 73.8780, 78.9104,  
92.9994

■ 84.4037, 88.4296,  
94.2821

# Harmonies

## Analogous

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



21.9451, 29.9359, 75.1411



27.8080, 29.9359, 85.9739



34.8308, 29.9359, 78.4373

# Triad

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



27.8080, 29.9359, 85.9739



41.7150, 29.9359, 18.3462



18.8396, 29.9359, 16.2345

# Complementary

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



27.8080, 29.9359, 85.9739



41.7271, 30.2560, 4.8049

# 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.



22.9058, 29.9359, 9.3685



27.8080, 29.9359, 85.9739



36.1353, 29.9359, 10.2030

# Square

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



27.8080, 29.9359, 85.9739



43.5757, 29.9359, 34.4927



29.1083, 29.9359, 7.7057



17.3097, 29.9359, 30.7685



# Rectangle

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



27.8080, 29.9359, 85.9739



39.1300, 29.9359, 65.1900



29.1083, 29.9359, 7.7057



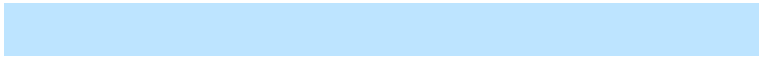
19.9200, 29.9359, 13.2126

# Sweetspot

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



27.8092, 29.9368, 85.9747



66.8367, 73.7500, 105.3202



34.3558, 63.1877, 26.0135



13.6454, 15.1385, 22.4528



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.



27.8092, 29.9368, 85.9747



29.4392, 29.9984, 98.8464



17.2293, 8.7770, 82.4480



15.6861, 16.8062, 20.1388



14.2021, 14.6284, 47.2029



1.2785, 1.4111, 3.9592



# Inverse Universe

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



41.9534, 21.5976, 32.9686



46.9888, 23.5595, 32.2025



60.8913, 68.5843, 11.1930



16.1710, 15.9181, 18.4566



22.4942, 11.2701, 15.7848

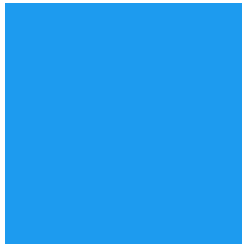


1.9203, 0.9572, 1.5711



# Previews

## White Background



This preview shows how the XYZ color 27.8080, 29.9359, 85.9739 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

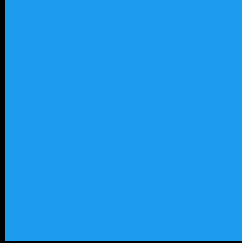
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 27.8080, 29.9359, 85.9739 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

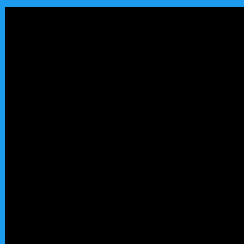
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

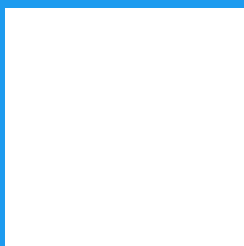
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 27.8080, 29.9359, 85.9739**

## **Background**



This preview shows how black text looks on a background with the XYZ color 27.8080, 29.9359, 85.9739.



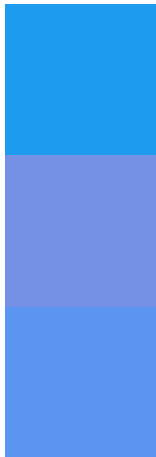
This preview shows how white text looks on a background with the XYZ color 27.8080, 29.9359,



# 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

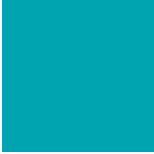
27.8080, 29.9359, 85.9739

### Protanopia

31.6108, 29.6770, 78.9251

### Deuteranopia

30.7815, 29.7548, 87.3400



## **Tritanopia**

21.1119, 29.6855, 45.6915

# Trichromacy



**Original Color**

27.8080, 29.9359, 85.9739

**Protanomaly**

29.1116, 29.2629, 81.2048

**Deuteranomaly**

29.1787, 29.6534, 86.6239

**Tritanomaly**

23.1917, 29.6844, 58.5402

# Monochromacy



**Original Color**

27.8080, 29.9359, 85.9739

**Achromatopsia**

20.1725, 21.2231, 23.1119

**Achromatomaly**

20.3279, 22.9426, 40.4028

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 27.8080, 29.9359, 85.9739 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(29, 155, 239)` looks like.

```
.text, #text, p{  
    color:rgb(29, 155, 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(29, 155, 239) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(29, 155, 239) }
```

## Border

The CSS property to change the border of an element to XYZ 27.8080, 29.9359, 85.9739 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(29, 155, 239) }
```



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

```
.border{ border-color:rgb(29, 155, 239) }
```

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

Here you see how a box with a 4 pixel `rgb(29, 155, 239)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(29, 155, 239); -webkit-box-  
shadow:4px 4px 4px 4px rgb(29, 155, 239);  
box-shadow:4px 4px 4px 4px rgb(29, 155,  
239) }
```

# Background

The CSS property to change the background color of an element to XYZ 27.8080, 29.9359, 85.9739 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(29, 155, 239) }
```

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

```
.background{ background-color: rgb(29, 155,  
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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