

# Converting Colors

XYZ(29.9811, 25.9610, 70.8433)

Have a look what the booklet for  
XYZ(29.9811, 25.9610, 70.8433)  
contains.

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# Color

**XYZ(30.0878, 26.0670,  
71.1558)**

# Conversions

## Conversions Part 1

Format	Color
Hex	8183DC
RGB	129, 131, 220
RGB Percent	51%, 51%, 86%
CMY	0.4941, 0.4863, 0.1373
CMYK	0.41, 0.40, 0.00, 0.14
HSL	239°, 57%, 68%
HSV	239°, 41%, 86%
XYZ	30.0878, 26.0670, 71.1558
YIQ	140.5480, -29.7610, 27.2550

# Conversions

## Conversions Part 2

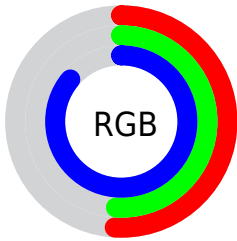
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	129, 131, 220
Decimal	8487900
CIE Lab	58.10, 21.37, -45.80
CIE LCh	58, 50.537, 295.009
Yxy	26.0670, 0.2363, 0.2048
Android (android.graphics.Color)	4286677980 (0xFF8183DC)
YUV	140.5480, 39.1698, -10.1276
Hunter-Lab	51.0559, 15.8444, -46.8925

# Details

The XYZ color **30.0878, 26.0670, 71.1558** is a light color, and the websafe version is hex **9999FF**. A complement of this color would be **58.5502, 66.9450, 30.6060**, and the grayscale version is **25.0018, 26.3038, 28.6448**.

A 20% lighter version of the original color is **55.1981, 51.8153, 101.6998**, and **12.5422, 10.1708, 36.4241** is the 20% darker color. If you saturate the color by 10%, you get **24.5028, 19.3345, 70.1512**, and if you desaturate by 10%, it is **36.9943, 34.3724, 72.3954**.

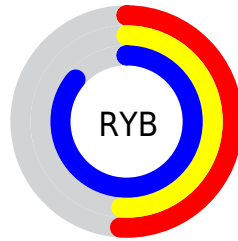
# Distribution



Red (51%)

Green (51%)

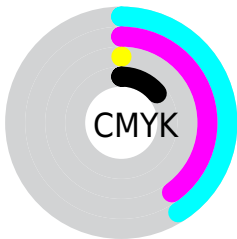
Blue (86%)



Red (51%)

Yellow (51%)

Blue (86%)

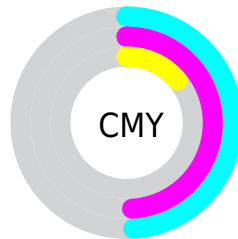


Cyan (41%)

Magenta (40%)

Yellow (0%)

Black (14%)



Cyan (49%)

Magenta (49%)

Yellow (14%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 30.0878, 26.0670, 71.1558 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 30.0878, 26.0670, 71.1558 by changing the saturation by 10% instead.



■ 30.0878, 26.0670,  
71.1558

■ 30.0878, 26.0670,  
71.1558

294.2160,  
283.1108, 483.4962

■ 20.0536, 16.8738,  
51.9867

■ 59.1867, 53.3830,  
122.5521

■ 12.5425, 10.1445,  
36.6123

■ 78.9821, 72.2746,  
155.6163

■ 7.1891, 5.4949,  
24.6141

■ 102.7620, 95.1677,  
194.1495

■ 3.6280, 2.5405,  
15.5733

130.8917,  
122.4468, 238.5699

■ 1.4939, 0.8968,  
9.0717

163.7366,  
154.4963, 289.2963

■ 0.3217, 0.0000,  
4.6905

201.6621,

■ 0.0000, 0.0000,

191.7005, 346.7471

2.0113

245.0334,  
234.4439, 411.3409

■ 0.0000, 0.0000,  
0.5622

■ 0.0000, 0.0000,  
0.0000

■ 30.0878, 26.0670,  
71.1558

■ 30.0878, 26.0670,  
71.1558

■ 24.5028, 19.3345,  
70.1512

■ 36.9943, 34.3724,  
72.3954

■ 20.1521, 14.0730,  
69.3649

■ 45.2959, 44.3381,  
73.8814

■ 16.9432, 10.1736,  
68.7814

■ 55.0644, 56.0485,  
75.6269

■ 14.7688, 7.5106,  
68.3820

■ 66.3658, 69.5815,  
77.6434

■ 13.5017, 5.9353,  
68.1447

■ 79.2621, 85.0102,  
79.9417

■ 12.9708, 5.2722,  
68.0447

■ 89.9184, 97.9473,  
81.8772

# Harmonies

## Analogous

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



23.7667, 26.0670, 76.8957



30.0878, 26.0670, 71.1558



35.7136, 26.0670, 52.4098

# Triad

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



30.0878, 26.0670, 71.1558



32.1505, 26.0670, 8.7653



14.8096, 26.0670, 25.5519

# Complementary

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



30.0878, 26.0670, 71.1558



58.5502, 66.9450, 30.6060

# 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.



16.3361, 26.0670, 13.1179



30.0878, 26.0670, 71.1558



25.8132, 26.0670, 6.3143

# Square

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



30.0878, 26.0670, 71.1558



37.0352, 26.0670, 16.3918



20.1292, 26.0670, 7.4935



15.5731, 26.0670, 45.1356



# Rectangle

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



30.0878, 26.0670, 71.1558



37.9611, 26.0670, 38.0168



20.1292, 26.0670, 7.4935



15.0634, 26.0670, 20.5312

# Sweetspot

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



30.0888, 26.0679, 71.1564



75.8593, 77.0206, 105.4760



47.1674, 60.8623, 74.8851



15.8308, 15.9989, 22.5037



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.



30.0888, 26.0679, 71.1564



34.8996, 27.8157, 98.1373



37.6661, 29.5796, 71.4349



12.3615, 12.6627, 16.4448



7.6229, 3.1153, 39.9379



0.5021, 0.2183, 2.5901



# Inverse Universe

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



41.4631, 32.5560, 25.5721



52.9435, 38.1880, 25.8053



47.8098, 62.1820, 30.2527



13.0676, 13.0561, 13.6171



17.3430, 8.9383, 0.9205

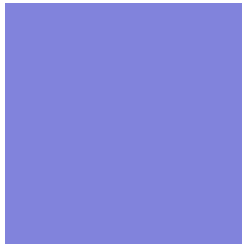


1.1277, 0.5807, 0.0816



# Previews

## White Background



This preview shows how the XYZ color 30.0878, 26.0670, 71.1558 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

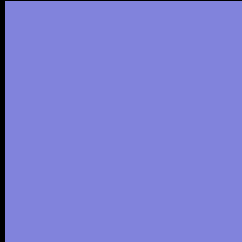
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 30.0878, 26.0670, 71.1558 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

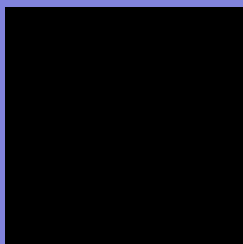
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 30.0878, 26.0670, 71.1558**

## **Background**



This preview shows how black text looks on a background with the XYZ color 30.0878, 26.0670, 71.1558.



This preview shows how white text looks on a background with the XYZ color 30.0878, 26.0670,



# 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

30.0878, 26.0670, 71.1558

### Protanopia

28.3620, 26.3308, 74.8217

### Deuteranopia

26.8173, 26.0686, 69.9480



## Tritanopia

22.9362, 26.1618, 35.2934

# Trichromacy



## Original Color

30.0878, 26.0670, 71.1558

## Protanomaly

28.9227, 26.2331, 73.3511

## Deuteranomaly

27.8970, 25.9740, 70.5610

## Tritanomaly

25.1225, 25.9328, 46.3293

# Monochromacy



## Original Color

30.0878, 26.0670, 71.1558

## Achromatopsia

25.3171, 26.6356, 29.0061

## Achromatomaly

26.5179, 26.1120, 41.6727

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 30.0878, 26.0670, 71.1558 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(129, 131, 220)` looks like.

```
.text, #text, p{  
    color:rgb(129, 131, 220)  
}
```

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(129, 131, 220) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(129, 131, 220) }
```

## Border

The CSS property to change the border of an element to XYZ 30.0878, 26.0670, 71.1558 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(129, 131, 220) }
```



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

```
.border{ border-color:rgb(129, 131, 220) }
```

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

Here you see how a box with a 4 pixel `rgb(129, 131, 220)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(129, 131, 220); -webkit-box-  
shadow:4px 4px 4px 4px rgb(129, 131, 220);  
box-shadow:4px 4px 4px 4px rgb(129, 131,  
220) }
```

# Background

The CSS property to change the background color of an element to XYZ 30.0878, 26.0670, 71.1558 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(129, 131, 220) }
```

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

```
.background{ background-color: rgb(129,  
131, 220) }
```

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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