

# Converting Colors

XYZ(34.2878, 28.6413, 86.1884)

Have a look what the booklet for  
XYZ(34.2878, 28.6413, 86.1884)  
contains.

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# Color

**XYZ(34.3838, 28.7701,  
86.1790)**

# Conversions

## Conversions Part 1

Format	Color
Hex	8787F0
RGB	135, 135, 240
RGB Percent	53%, 53%, 94%
CMY	0.4706, 0.4706, 0.0588
CMYK	0.44, 0.44, 0.00, 0.06
HSL	240°, 78%, 74%
HSV	240°, 44%, 94%
XYZ	34.3838, 28.7701, 86.1790
YIQ	146.9700, -33.7050, 32.6550

# Conversions

## Conversions Part 2

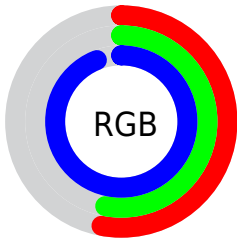
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	135, 135, 240
Decimal	8882160
CIE <sub>Lab</sub>	60.58, 26.19, -52.97
CIE <sub>LCh</sub>	61, 59.091, 296.307
Yxy	28.7701, 0.2302, 0.1927
Android (android.graphics.Color)	4287072240 (0xFF8787F0)
YUV	146.9700, 45.8638, -10.4977
Hunter-Lab	53.6378, 20.5590, -57.7139

# Details

The XYZ color **34.3838, 28.7701, 86.1790** is a light color, and the websafe version is hex **9999FF**. A complement of this color would be **71.4682, 82.5949, 35.0981**, and the grayscale version is **27.5483, 28.9829, 31.5624**.

A 20% lighter version of the original color is **57.7714, 54.3929, 102.0617**, and **14.9376, 11.5356, 46.2390** is the 20% darker color. If you saturate the color by 10%, you get **27.9691, 21.0405, 85.0257**, and if you desaturate by 10%, it is **42.4257, 38.4597, 87.6260**.

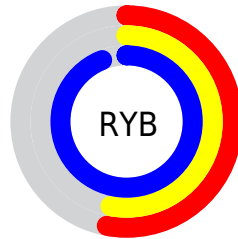
# Distribution



Red (53%)

Green (53%)

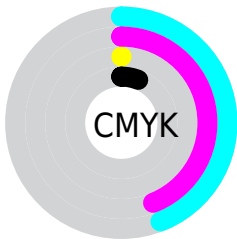
Blue (94%)



Red (53%)

Yellow (53%)

Blue (94%)

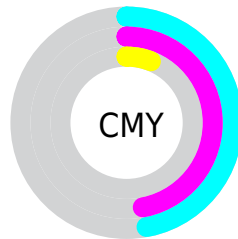


Cyan (44%)

Magenta (44%)

Yellow (0%)

Black (6%)



Cyan (47%)

Magenta (47%)

Yellow (6%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 34.3838, 28.7701, 86.1790 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 34.3838, 28.7701, 86.1790 by changing the saturation by 10% instead.



■ 34.3838, 28.7701,  
86.1790

■ 34.3838, 28.7701,  
86.1790

313.3959,  
296.1287, 535.7672

■ 23.3529, 18.9070,  
64.2603

■ 65.8704, 57.7116,  
143.9080

■ 14.9764, 11.6031,  
46.4140

■ 87.0568, 77.5588,  
180.5554

■ 8.8890, 6.4740,  
32.2216

■ 112.3591,  
101.5028, 222.9493

■ 4.7254, 3.1354,  
21.2646

142.1426,  
129.9280, 271.5084

■ 2.1202, 1.2028,  
13.1244

176.7726,  
163.2188, 326.6512

■ 0.7001, 0.0640,  
7.3825

216.6146,

■ 0.0000, 0.0000,

201.7596, 388.7963

3.6204

262.0340,  
245.9347, 458.3621

■ 0.0000, 0.0000,  
1.4195

■ 0.0000, 0.0000,  
0.1569

■ 34.3838, 28.7701,  
86.1790

■ 34.3838, 28.7701,  
86.1790

■ 27.9691, 21.0405,  
85.0257

■ 42.4257, 38.4597,  
87.6260

■ 23.0676, 15.1345,  
84.1441

■ 52.1915, 50.2269,  
89.3826

■ 19.5562, 10.9035,  
83.5125

■ 63.7746, 64.1839,  
91.4661

■ 17.2908, 8.1739,  
83.1050

■ 77.2607, 80.4338,  
93.8918

■ 16.0962, 6.7346,  
82.8902

■ 92.7283, 99.0713,  
96.6740

■ 15.7284, 6.2913,  
82.8240

# Harmonies

## Analogous

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



26.4101, 28.7701, 94.8348



34.3838, 28.7701, 86.1790



41.4747, 28.7701, 60.9301

# Triad

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



34.3838, 28.7701, 86.1790



36.3279, 28.7701, 7.7447



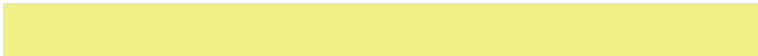
15.1519, 28.7701, 28.6942

# Complementary

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



34.3838, 28.7701, 86.1790



71.4682, 82.5949, 35.0981

# 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.



16.8556, 28.7701, 13.3070



34.3838, 28.7701, 86.1790



28.3019, 28.7701, 5.3084

# Square

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



34.3838, 28.7701, 86.1790



42.7359, 28.7701, 16.1383



21.3392, 28.7701, 6.7259



16.1798, 28.7701, 53.9077



# Rectangle

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



34.3838, 28.7701, 86.1790



44.2395, 28.7701, 42.3739



21.3392, 28.7701, 6.7259



15.4144, 28.7701, 22.3871

# Sweetspot

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



34.3849, 28.7711, 86.1797



74.2100, 74.8889, 105.1515



56.8806, 73.7630, 93.6784



15.2071, 15.2137, 22.3850



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.



34.3849, 28.7711, 86.1797



33.1420, 25.4046, 97.7645



45.0089, 34.2480, 86.6769



14.8974, 15.2288, 19.8759



8.6099, 3.4440, 45.3388



0.7163, 0.2865, 3.7718



# Inverse Universe

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



60.3276, 42.1451, 87.3919



66.2982, 42.4973, 99.3136



56.1500, 74.6981, 34.3812



16.4543, 16.0314, 19.9487



28.2809, 13.5848, 46.2570

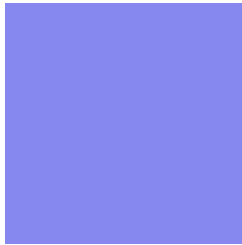


2.3527, 1.1301, 3.8482



# Previews

## White Background



This preview shows how the XYZ color 34.3838, 28.7701, 86.1790 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

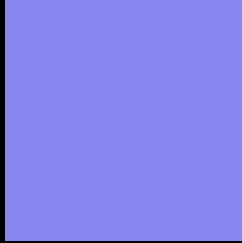
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the XYZ color 34.3838, 28.7701, 86.1790 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

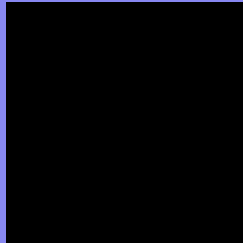
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 34.3838, 28.7701, 86.1790**

## **Background**



This preview shows how black text looks on a background with the XYZ color 34.3838, 28.7701, 86.1790.



This preview shows how white text looks on a background with the XYZ color 34.3838, 28.7701,



# 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

34.3838, 28.7701, 86.1790

### Protanopia

31.8283, 28.8281, 91.8825

### Deuteranopia

29.7814, 28.8459, 84.1189



## Tritanopia

24.9993, 28.7816, 39.3598

# Trichromacy



## Original Color

34.3838, 28.7701, 86.1790

## Protanomaly

32.3718, 28.5076, 89.3843

## Deuteranomaly

31.0495, 28.5832, 84.7695

## Tritanomaly

27.8194, 28.5011, 53.9042

# Monochromacy



## Original Color

34.3838, 28.7701, 86.1790

## Achromatopsia

27.7328, 29.1771, 31.7738

## Achromatomaly

29.4906, 28.8208, 47.7247

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 34.3838, 28.7701, 86.1790 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(135, 135, 240)` looks like.

```
.text, #text, p{  
    color:rgb(135, 135, 240)  
}
```

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(135, 135, 240) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(135, 135, 240) }
```

## Border

The CSS property to change the border of an element to XYZ 34.3838, 28.7701, 86.1790 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(135, 135, 240) }
```



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

```
.border{ border-color:rgb(135, 135, 240) }
```

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

Here you see how a box with a 4 pixel `rgb(135, 135, 240)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(135, 135, 240); -webkit-box-  
shadow:4px 4px 4px 4px rgb(135, 135, 240);  
box-shadow:4px 4px 4px 4px rgb(135, 135,  
240) }
```

# Background

The CSS property to change the background color of an element to XYZ 34.3838, 28.7701, 86.1790 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(135, 135, 240) }
```

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

```
.background{ background-color: rgb(135,  
135, 240) }
```

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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