

# Converting Colors

XYZ(37.2810, 28.8625, 87.6119)

Have a look what the booklet for  
XYZ(37.2810, 28.8625, 87.6119)  
contains.

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# Color

**XYZ(37.2638, 28.8177,  
87.6028)**

# Conversions

## Conversions Part 1

Format	Color
Hex	9B80F2
RGB	155, 128, 242
RGB Percent	61%, 50%, 95%
CMY	0.3921, 0.4980, 0.0510
CMYK	0.36, 0.47, 0.00, 0.05
HSL	254°, 81%, 73%
HSV	254°, 47%, 95%
XYZ	37.2638, 28.8177, 87.6028
YIQ	149.0690, -20.5020, 41.1780

# Conversions

## Conversions Part 2

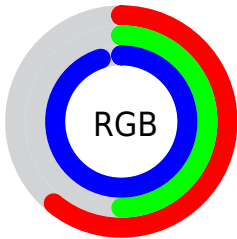
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	155, 128, 242
Decimal	10191090
CIE <sub>Lab</sub>	60.62, 35.69, -53.91
CIE <sub>LCh</sub>	61, 64.653, 303.503
Yxy	28.8177, 0.2425, 0.1875
Android (android.graphics.Color)	4288381170 (0xFF9B80F2)
YUV	149.0690, 45.8150, 5.2015
Hunter-Lab	53.6821, 29.9633, -59.1767

# Details

The XYZ color **37.2638, 28.8177, 87.6028** is a light color, and the websafe version is hex **9966CC**. A complement of this color would be **63.6728, 79.5102, 32.4139**, and the grayscale version is **28.4166, 29.8965, 32.5573**.

A 20% lighter version of the original color is **62.0144, 54.4139, 101.8422**, and **16.6269, 11.6042, 47.2624** is the 20% darker color. If you saturate the color by 10%, you get **31.1982, 21.5509, 86.5204**, and if you desaturate by 10%, it is **44.6264, 37.8712, 88.9628**.

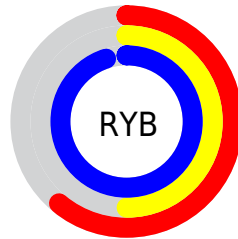
# Distribution



Red (61%)

Green (50%)

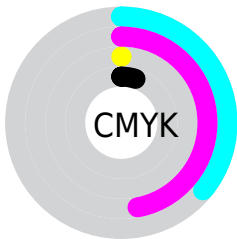
Blue (95%)



Red (61%)

Yellow (50%)

Blue (95%)

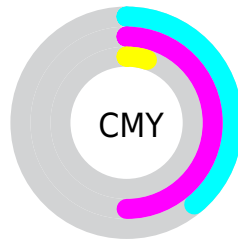


Cyan (36%)

Magenta (47%)

Yellow (0%)

Black (5%)



Cyan (39%)

Magenta (50%)

Yellow (5%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 37.2638, 28.8177, 87.6028 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 37.2638, 28.8177, 87.6028 by changing the saturation by 10% instead.



37.2638, 28.8177,  
87.6028

37.2638, 28.8177,  
87.6028

325.7870,  
296.3538, 540.5692

25.5864, 18.9430,  
65.4317

70.2895, 57.7873,  
145.9103

16.6455, 11.6291,  
47.3576

92.3686, 77.6510,  
182.8838

10.0758, 6.4916,  
32.9621

118.6456,  
101.6131, 225.6285

5.5119, 3.1463,  
21.8265

149.4858,  
130.0580, 274.5630

2.5885, 1.2086,  
13.5324

185.2548,  
163.3702, 330.1057

0.9401, 0.0687,  
7.6612

226.3177,

0.0000, 0.0000,

201.9339, 392.6753

3.7943

273.0400,  
246.1337, 462.6903

■ 0.0000, 0.0000,  
1.5132

■ 0.0000, 0.0000,  
0.2277

■ 37.2638, 28.8177,  
87.6028

■ 37.2638, 28.8177,  
87.6028

■ 31.1982, 21.5509,  
86.5204

■ 44.6264, 37.8712,  
88.9628

■ 26.3472, 15.9464,  
85.6943

■ 53.3546, 48.8182,  
90.6158

■ 22.6239, 11.8682,  
85.1034

■ 63.5159, 61.7606,  
92.5783

■ 19.9271, 9.1566,  
84.7221

■ 75.1726, 76.7922,  
94.8654

■ 18.1316, 7.6086,  
84.5180

■ 88.3829, 94.0006,  
97.4907

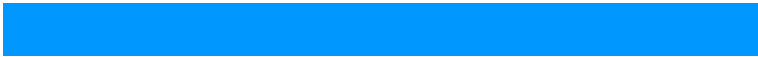
■ 17.7328, 7.2902,  
84.4775

■ 93.0271, 99.1909,  
98.2477

# Harmonies

## Analogous

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



28.3852, 28.8177, 103.4818



37.2638, 28.8177, 87.6028



44.4565, 28.8177, 56.7459

# Triad

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



37.2638, 28.8177, 87.6028



35.2122, 28.8177, 5.5695



14.2672, 28.8177, 34.2778

# Complementary

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



37.2638, 28.8177, 87.6028



63.6728, 79.5102, 32.4139

# 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.



15.3688, 28.8177, 14.9851



37.2638, 28.8177, 87.6028



26.4191, 28.8177, 4.1992

# Square

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



37.2638, 28.8177, 87.6028



43.1127, 28.8177, 12.1989



19.4359, 28.8177, 6.5068



16.0473, 28.8177, 64.2959



# Rectangle

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



37.2638, 28.8177, 87.6028



46.6836, 28.8177, 36.8841



19.4359, 28.8177, 6.5068



14.3147, 28.8177, 26.4484

# Sweetspot

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



37.2650, 28.8187, 87.6035



75.3774, 74.4938, 105.0137



49.3323, 59.8056, 92.9486



15.5498, 15.1943, 22.3632



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.



37.2650, 28.8187, 87.6035



35.1035, 24.2328, 97.4350



50.7831, 35.7876, 88.2361



15.2477, 15.4094, 19.8923



9.6267, 3.9681, 45.3864



0.8865, 0.3743, 3.7797



# Inverse Universe

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



56.6033, 39.2225, 68.8766



59.7724, 37.5342, 72.2025



49.8285, 72.3732, 31.7660



16.2848, 15.9636, 19.0561



24.4134, 12.0378, 25.8911

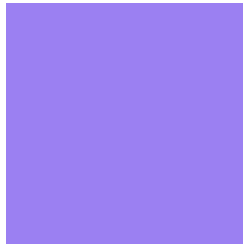


2.0691, 1.0167, 2.3546



# Previews

## White Background



This preview shows how the XYZ color 37.2638, 28.8177, 87.6028 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

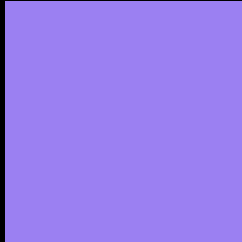
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 37.2638, 28.8177, 87.6028 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

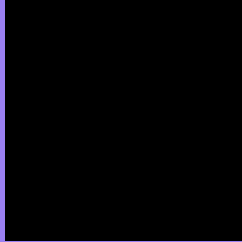
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 37.2638, 28.8177, 87.6028**

## **Background**



This preview shows how black text looks on a background with the XYZ color 37.2638, 28.8177, 87.6028.



This preview shows how white text looks on a background with the XYZ color 37.2638, 28.8177,



# 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

37.2638, 28.8177, 87.6028

### Protanopia

32.4423, 28.9989, 98.4952

### Deuteranopia

30.0828, 29.2141, 84.9423



## Tritanopia

27.0083, 28.6890, 36.9149

# Trichromacy



## Original Color

37.2638, 28.8177, 87.6028

## Protanomaly

33.5371, 28.5754, 94.1905

## Deuteranomaly

31.8975, 28.5656, 85.4939

## Tritanomaly

30.0650, 28.3596, 52.0335

# Monochromacy



## Original Color

37.2638, 28.8177, 87.6028

## Achromatopsia

28.5667, 30.0544, 32.7292

## Achromatomaly

30.8346, 29.0480, 48.7814

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 37.2638, 28.8177, 87.6028 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(155, 128, 242)` looks like.

```
.text, #text, p{  
    color:rgb(155, 128, 242)  
}
```

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(155, 128, 242) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(155, 128, 242) }
```

## Border

The CSS property to change the border of an element to XYZ 37.2638, 28.8177, 87.6028 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(155, 128, 242) }
```



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

```
.border{ border-color:rgb(155, 128, 242) }
```

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

Here you see how a box with a 4 pixel `rgb(155, 128, 242)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(155, 128, 242); -webkit-box-  
shadow:4px 4px 4px 4px rgb(155, 128, 242);  
box-shadow:4px 4px 4px 4px rgb(155, 128,  
242) }
```

# Background

The CSS property to change the background color of an element to XYZ 37.2638, 28.8177, 87.6028 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(155, 128, 242) }
```

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

```
.background{ background-color: rgb(155,  
128, 242) }
```

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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