

# Converting Colors

XYZ(27.2988, 12.5765, 78.0798)

Have a look what the booklet for  
XYZ(27.2988, 12.5765, 78.0798)  
contains.

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# Color

**XYZ(27.2339, 12.5357,  
78.0750)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	950CE9
RGB	149, 12, 233
RGB Percent	58%, 5%, 91%
CMY	0.4157, 0.9529, 0.0863
CMYK	0.36, 0.95, 0.00, 0.09
HSL	277°, 90%, 48%
HSV	277°, 95%, 91%
XYZ	27.2339, 12.5357, 78.0750
YIQ	78.1570, 10.7110, 97.7750

# Conversions

## Conversions Part 2

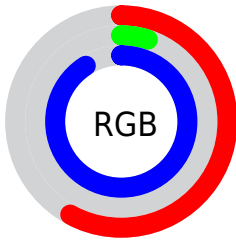
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	149, 12, 233
Decimal	9768169
CIE Lab	42.06, 79.39, -78.92
CIE LCh	42, 111.942, 315.172
Yxy	12.5357, 0.2311, 0.1064
Android (android.graphics.Color)	4287958249 (0xFF950CE9)
YUV	78.1570, 76.3376, 62.1293
Hunter-Lab	35.4058, 75.3409, -105.9592

# Details

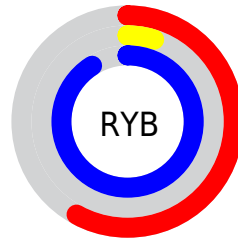
The XYZ color **27.2339, 12.5357, 78.0750** is a dark color, and the websafe version is hex **9933FF**. The color can be described as dark washed purple. A complement of this color would be **34.0289, 60.7912, 10.2882**, and the grayscale version is **7.1307, 7.5021, 8.1698**.

A 20% lighter version of the original color is **48.1181, 27.9011, 97.4571**, and **11.7670, 5.1608, 41.4502** is the 20% darker color. If you saturate the color by 10%, you get **26.2872, 11.8525, 77.9933**, and if you desaturate by 10%, it is **29.3909, 14.3579, 78.3133**.

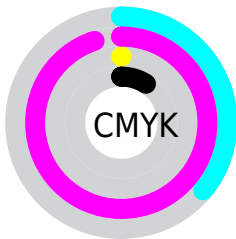
# Distribution



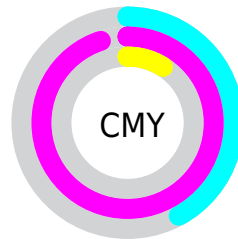
- Red (58%)
- Green (5%)
- Blue (91%)



- Red (58%)
- Yellow (5%)
- Blue (91%)



- Cyan (36%)
- Magenta (95%)
- Yellow (0%)
- Black (9%)



- Cyan (42%)
- Magenta (95%)
- Yellow (9%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 27.2339, 12.5357, 78.0750 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 27.2339, 12.5357, 78.0750 by changing the saturation by 10% instead.



27.2339, 12.5357,  
78.0750

27.2339, 12.5357,  
78.0750

280.9348,  
207.9202, 507.9562

17.8865, 7.1096,  
57.6188

54.6762, 30.4671,  
132.4427

10.9677, 3.5307,  
41.0896

73.5018, 43.7412,  
167.1912

6.1123, 1.4147,  
28.0689

96.2175, 60.4001,  
207.5409

2.9548, 0.2275,  
18.1381

123.1886, 80.8281,  
253.9104

1.1299, 0.0000,  
10.8787

154.7806,  
105.4098, 306.7181

0.0499, 0.0000,  
5.8722

191.3587,

0.0000, 0.0000,

134.5294, 366.3826

2.7000

233.2883,  
168.5714, 433.3224

■ 0.0000, 0.0000,  
0.9434

■ 0.0000, 0.0000,  
0.0000

■ 27.2339, 12.5357,  
78.0750

■ 27.2339, 12.5357,  
78.0750

■ 26.2872, 11.8525,  
77.9933

■ 29.3909, 14.3579,  
78.3133

■ 32.1278, 17.1547,  
78.7089

■ 35.5255, 21.0829,  
79.2881

■ 39.6496, 26.2703,  
80.0720

44.5570, 32.8270,  
81.0789

50.2984, 40.8508,  
82.3250

56.9198, 50.4302,  
83.8251

64.4635, 61.6469,  
85.5925

72.9690, 74.5763,  
87.6398

# Harmonies

## Analogous

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



16.6089, 12.5357, 122.7170



27.2339, 12.5357, 78.0750



35.0204, 12.5357, 29.0425

# Triad

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



27.2339, 12.5357, 78.0750



16.4932, 12.5357, 0.0000



2.1863, 12.5357, 29.4850

# Complementary

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



27.2339, 12.5357, 78.0750



34.0289, 60.7912, 10.2882

# 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.



2.1783, 12.5357, 4.9641



27.2339, 12.5357, 78.0750



8.2007, 12.5357, 0.0000

# Square

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



27.2339, 12.5357, 78.0750



27.1160, 12.5357, 0.0000



3.7917, 12.5357, 0.0000



3.8235, 12.5357, 78.6998



# Rectangle

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



27.2339, 12.5357, 78.0750



35.9881, 12.5357, 9.9231



3.7917, 12.5357, 0.0000



2.0312, 12.5357, 18.2079

# Sweetspot

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



27.2346, 12.5361, 78.0753



67.0589, 57.8066, 102.2311



19.1082, 14.4585, 78.8747



13.6040, 11.2904, 21.7122



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.



27.2346, 12.5361, 78.0753



32.1665, 14.4973, 95.7106



45.0249, 22.1023, 61.0637



15.1281, 15.0113, 19.0224



15.0580, 6.7986, 44.2616



1.2889, 0.5887, 3.4806



# Inverse Universe

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



35.8470, 18.4311, 12.7337



43.3939, 22.1216, 13.2722



29.6370, 58.4947, 11.5440



15.3023, 15.1488, 16.8774



20.1361, 10.2571, 6.5183

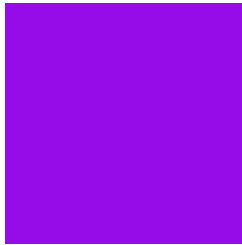


1.6267, 0.8236, 0.7517



# Previews

## White Background



This preview shows how the XYZ color 27.2339, 12.5357, 78.0750 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

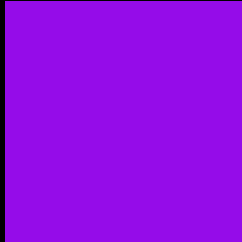
Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 27.2339, 12.5357, 78.0750 looks on a black 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

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

**XYZ 27.2339, 12.5357, 78.0750**

## **Background**



This preview shows how black text looks on a background with the XYZ color 27.2339, 12.5357, 78.0750.



This preview shows how white text looks on a background with the XYZ color 27.2339, 12.5357,



# 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

27.2339, 12.5357, 78.0750

### Protanopia

15.1738, 12.9090, 58.8187

### Deuteranopia

12.6867, 12.8351, 42.8831



## Tritanopia

14.1141, 12.5750, 13.2386

# Trichromacy



## Original Color

27.2339, 12.5357, 78.0750



## Protanomaly

15.7353, 9.5870, 65.3111



## Deuteranomaly

13.7895, 9.1958, 53.8715



## Tritanomaly

16.5048, 10.4574, 28.7523

# Monochromacy



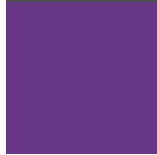
## Original Color

27.2339, 12.5357, 78.0750



## Achromatopsia

7.2414, 7.6185, 8.2966



## Achromatomaly

11.3312, 7.3026, 23.3666

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 27.2339, 12.5357, 78.0750 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(149, 12, 233)` looks like.

```
.text, #text, p{  
    color:rgb(149, 12, 233)  
}
```

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(149, 12, 233) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(149, 12, 233) }
```

## Border

The CSS property to change the border of an element to XYZ 27.2339, 12.5357, 78.0750 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(149, 12, 233) }
```



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

```
.border{ border-color:rgb(149, 12, 233) }
```

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

Here you see how a box with a 4 pixel `rgb(149, 12, 233)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(149, 12, 233); -webkit-box-  
shadow:4px 4px 4px 4px rgb(149, 12, 233);  
box-shadow:4px 4px 4px 4px rgb(149, 12,  
233) }
```

# Background

The CSS property to change the background color of an element to XYZ 27.2339, 12.5357, 78.0750 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(149, 12, 233) }
```

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

```
.background{ background-color: rgb(149, 12,  
233) }
```

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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