

# Converting Colors

XYZ(35.8589, 28.1963, 77.6832)

Have a look what the booklet for  
XYZ(35.8589, 28.1963, 77.6832)  
contains.

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# Color

**XYZ(35.8328, 28.1050,  
77.6650)**

# Conversions

## Conversions Part 1

| Format      | Color                       |
|-------------|-----------------------------|
| Hex         | 9E7FE5                      |
| RGB         | 158, 127, 229               |
| RGB Percent | 62%, 50%, 90%               |
| CMY         | 0.3804, 0.5020, 0.1020      |
| CMYK        | 0.31, 0.45, 0.00, 0.10      |
| HSL         | 258°, 66%, 70%              |
| HSV         | 258°, 45%, 90%              |
| XYZ         | 35.8328, 28.1050, 77.6650   |
| YIQ         | 147.8970, -14.2660, 38.2940 |

# Conversions

## Conversions Part 2

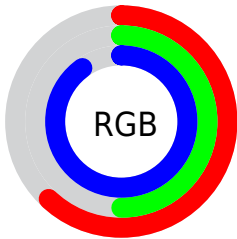
| <b>Format</b>                       | <b>Color</b>                  |
|-------------------------------------|-------------------------------|
| <b>R<sub>YB</sub></b>               | 158, 127, 229                 |
| Decimal                             | 10387429                      |
| CIE <sub>Lab</sub>                  | 59.98, 33.69, -47.69          |
| CIE <sub>LCh</sub>                  | 60, 58.389, 305.236           |
| Yxy                                 | 28.1050, 0.2531,<br>0.1985    |
| Android<br>(android.graphics.Color) | 4288577509<br>(0xFF9E7FE5)    |
| YUV                                 | 147.8970, 39.9838,<br>8.8603  |
| Hunter-Lab                          | 53.0141, 27.8752,<br>-49.7491 |

# Details

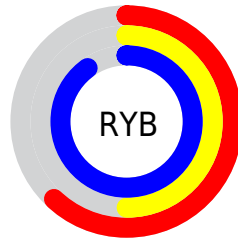
The XYZ color **35.8328, 28.1050, 77.6650** is a light color, and the websafe version is hex **9966CC**. A complement of this color would be **55.1392, 69.5772, 30.6032**, and the grayscale version is **27.9493, 29.4049, 32.0219**.

A 20% lighter version of the original color is **62.3956, 54.3096, 101.8019**, and **15.7902, 11.2084, 40.8664** is the 20% darker color. If you saturate the color by 10%, you get **30.2698, 21.3349, 76.6520**, and if you desaturate by 10%, it is **42.4767, 36.4310, 78.9224**.

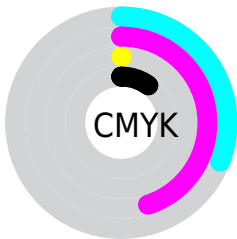
# Distribution



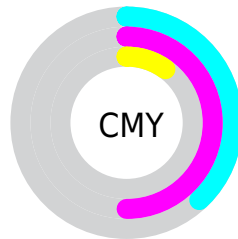
- Red (62%)
- Green (50%)
- Blue (90%)



- Red (62%)
- Yellow (50%)
- Blue (90%)



- Cyan (31%)
- Magenta (45%)
- Yellow (0%)
- Black (10%)



- Cyan (38%)
- Magenta (50%)
- Yellow (10%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 35.8328, 28.1050, 77.6650 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 35.8328, 28.1050, 77.6650 by changing the saturation by 10% instead.



35.8328, 28.1050,  
77.6650

35.8328, 28.1050,  
77.6650

319.6732,  
292.9683, 506.5261

24.4746, 18.4048,  
57.2840

68.0995, 56.6520,  
131.8593

15.8127, 11.2410,  
40.8224

89.7387, 76.2677,  
166.5098

9.4817, 6.2292,  
27.8617

115.5356, 99.9573,  
206.7538

5.1163, 2.9849,  
17.9833

145.8555,  
128.1052, 253.0099

2.3511, 1.1239,  
10.7687

181.0639,  
161.0959, 305.6966

0.8206, 0.0000,  
5.7993

221.5261,

0.0000, 0.0000,

199.3137, 365.2326

2.6566

267.6074,  
243.1430, 432.0362

■ 0.0000, 0.0000,  
0.9215

■ 0.0000, 0.0000,  
0.0000

■ 35.8328, 28.1050,  
77.6650

■ 35.8328, 28.1050,  
77.6650

■ 30.2698, 21.3349,  
76.6520

■ 42.4767, 36.4310,  
78.9224

■ 25.7228, 16.0172,  
75.8652

■ 50.2548, 46.4009,  
80.4369

■ 22.1246, 12.0407,  
75.2873

■ 59.2205, 58.0997,  
82.2224

■ 19.3970, 9.2756,  
74.8973

■ 69.4228, 71.6056,  
84.2916

■ 17.4474, 7.5650,  
74.6699

■ 80.9077, 86.9919,  
86.6561

■ 16.6400, 6.9445,  
74.5927

■ 90.6456, 98.1808,  
88.3026

■ 91.1430, 98.4372,  
88.3258

# Harmonies

## Analogous

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



28.0381, 28.1050, 92.1089



35.8328, 28.1050, 77.6650



41.8998, 28.1050, 51.1401

# Triad

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



35.8328, 28.1050, 77.6650



33.1556, 28.1050, 6.4554



14.8618, 28.1050, 34.4896

# Complementary

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



35.8328, 28.1050, 77.6650



55.1392, 69.5772, 30.6032

# 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.



15.7265, 28.1050, 16.4628



35.8328, 28.1050, 77.6650



25.4302, 28.1050, 5.2643

# Square

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



35.8328, 28.1050, 77.6650



40.1642, 28.1050, 12.5446



19.2888, 28.1050, 7.8710



16.6602, 28.1050, 60.7995



# Rectangle

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



35.8328, 28.1050, 77.6650



43.6301, 28.1050, 34.1272



19.2888, 28.1050, 7.8710



14.8549, 28.1050, 27.3275

# Sweetspot

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



35.8339, 28.1061, 77.6657



77.3859, 76.5262, 105.3001



43.1817, 50.7413, 81.6474



15.9803, 15.6123, 22.4212



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.



35.8339, 28.1061, 77.6657



39.4316, 28.1863, 97.9700



47.9145, 34.3338, 78.2310



13.9927, 14.0985, 18.1281



9.6211, 4.0257, 42.6531



0.8028, 0.3448, 3.1562



# Inverse Universe

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



50.0961, 35.9148, 57.7181



60.0663, 39.5080, 68.0271



43.9554, 63.8117, 30.0798



14.7988, 14.5367, 17.1407



22.1288, 10.9858, 20.1053

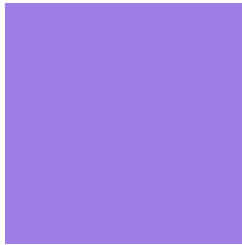


1.6761, 0.8281, 1.7008



# Previews

## White Background



This preview shows how the XYZ color 35.8328, 28.1050, 77.6650 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

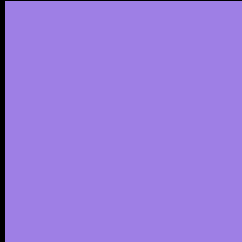
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 35.8328, 28.1050, 77.6650 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

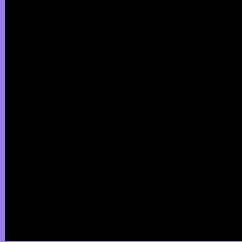
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 35.8328, 28.1050, 77.6650**

## **Background**



This preview shows how black text looks on a background with the XYZ color 35.8328, 28.1050, 77.6650.



This preview shows how white text looks on a background with the XYZ color 35.8328, 28.1050,



# 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

35.8328, 28.1050, 77.6650

### Protanopia

31.1454, 28.3441, 87.8338

### Deuteranopia

29.0434, 28.2075, 75.1480



## Tritanopia

27.2173, 28.1527, 35.0099

# Trichromacy



## Original Color

35.8328, 28.1050, 77.6650

## Protanomaly

32.2586, 27.9337, 83.8123

## Deuteranomaly

30.8420, 27.8055, 75.6930

## Tritanomaly

29.7447, 27.8503, 48.0639

# Monochromacy



## Original Color

35.8328, 28.1050, 77.6650

## Achromatopsia

28.1479, 29.6138, 32.2495

## Achromatomaly

30.2628, 28.6059, 45.5214

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 35.8328, 28.1050, 77.6650 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(158, 127, 229)` looks like.

```
.text, #text, p{  
    color:rgb(158, 127, 229)  
}
```

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(158, 127, 229) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(158, 127, 229) }
```

## Border

The CSS property to change the border of an element to XYZ 35.8328, 28.1050, 77.6650 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(158, 127, 229) }
```



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

```
.border{ border-color:rgb(158, 127, 229) }
```

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

Here you see how a box with a 4 pixel rgb(158, 127, 229) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(158, 127, 229); -webkit-box-  
shadow:4px 4px 4px 4px rgb(158, 127, 229);  
box-shadow:4px 4px 4px 4px rgb(158, 127,  
229) }
```

# Background

The CSS property to change the background color of an element to XYZ 35.8328, 28.1050, 77.6650 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(158, 127, 229) }
```

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

```
.background{ background-color: rgb(158,  
127, 229) }
```

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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