

# Converting Colors

XYZ(38.0841, 27.2131, 85.8734)

Have a look what the booklet for  
XYZ(38.0841, 27.2131, 85.8734)  
contains.

<b>XYZ(38.0258, 27.2293, 85.6897)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(38.0258, 27.2293,  
85.6897)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	A775F0
RGB	167, 117, 240
RGB Percent	65%, 46%, 94%
CMY	0.3451, 0.5412, 0.0588
CMYK	0.30, 0.51, 0.00, 0.06
HSL	264°, 80%, 70%
HSV	264°, 51%, 94%
XYZ	38.0258, 27.2293, 85.6897
YIQ	145.9720, -9.6830, 48.8530

# Conversions

## Conversions Part 2

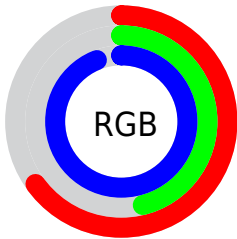
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	167, 117, 240
Decimal	10974704
CIE Lab	59.19, 44.35, -55.02
CIE LCh	59, 70.668, 308.870
Yxy	27.2293, 0.2519, 0.1804
Android (android.graphics.Color)	4289164784 (0xFFA775F0)
YUV	145.9720, 46.3558, 18.4416
Hunter-Lab	52.1817, 38.7584, -60.8353

# Details

The XYZ color **38.0258, 27.2293, 85.6897** is a light color, and the websafe version is hex **9966CC**. A complement of this color would be **55.6065, 74.5521, 28.2896**, and the grayscale version is **27.1301, 28.5430, 31.0833**.

A 20% lighter version of the original color is **63.4761, 51.9770, 101.2948**, and **17.1099, 10.8127, 45.9850** is the 20% darker color. If you saturate the color by 10%, you get **32.7344, 20.8694, 84.7415**, and if you desaturate by 10%, it is **44.3675, 35.1955, 86.8936**.

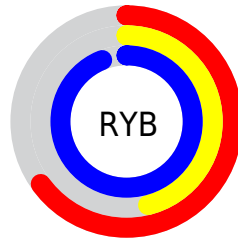
# Distribution



Red (65%)

Green (46%)

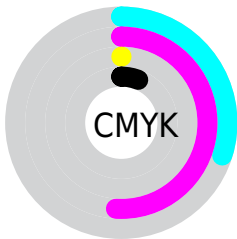
Blue (94%)



Red (65%)

Yellow (46%)

Blue (94%)

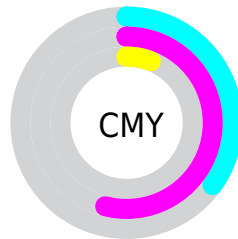


Cyan (30%)

Magenta (51%)

Yellow (0%)

Black (6%)



Cyan (35%)

Magenta (54%)

Yellow (6%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 38.0258, 27.2293, 85.6897 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 38.0258, 27.2293, 85.6897 by changing the saturation by 10% instead.



38.0258, 27.2293,  
85.6897

38.0258, 27.2293,  
85.6897

329.0096,  
288.7656, 534.1115

26.1800, 17.7455,  
63.8580

71.4513, 55.2516,  
143.2191

17.0917, 10.7674,  
46.0902

93.7618, 74.5589,  
179.7539

10.3956, 5.9107,  
31.9678

120.2912, 97.9095,  
222.0267

5.7263, 2.7908,  
21.0723

151.4048,  
125.6878, 270.4562

2.7185, 1.0235,  
12.9851

187.4682,  
158.2781, 325.4609

1.0067, 0.0000,  
7.2877

228.8465,

0.0000, 0.0000,

196.0650, 387.4593

3.5615

275.9052,  
239.4327, 456.8700

■ 0.0000, 0.0000,  
1.3880

■ 0.0000, 0.0000,  
0.1323

■ 38.0258, 27.2293,  
85.6897

■ 38.0258, 27.2293,  
85.6897

■ 32.7344, 20.8694,  
84.7415

■ 44.3675, 35.1955,  
86.8936

■ 28.4234, 15.9952,  
84.0279

■ 51.8165, 44.8701,  
88.3684

■ 25.0184, 12.4737,  
83.5277

■ 60.4292, 56.3503,  
90.1303

■ 22.4305, 10.1446,  
83.2145

■ 70.2568, 69.7249,  
92.1939

■ 20.7184, 8.8638,  
83.0575

■ 81.3476, 85.0768,  
94.5726

■ 91.8018, 98.5937,  
96.6306

■ 92.7283, 99.0713,  
96.6740

# Harmonies

## Analogous

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



28.5800, 27.2293, 107.9942



38.0258, 27.2293, 85.6897



45.1028, 27.2293, 50.7874

# Triad

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



38.0258, 27.2293, 85.6897



32.4762, 27.2293, 3.5203



12.4978, 27.2293, 37.7706

# Complementary

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



38.0258, 27.2293, 85.6897



55.6065, 74.5521, 28.2896

# 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.



13.0827, 27.2293, 15.3788



38.0258, 27.2293, 85.6897



23.3569, 27.2293, 2.9117

# Square

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



38.0258, 27.2293, 85.6897



41.4269, 27.2293, 8.4421



16.6434, 27.2293, 5.6529



14.8102, 27.2293, 71.6742



# Rectangle

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



38.0258, 27.2293, 85.6897



46.7666, 27.2293, 30.6147



16.6434, 27.2293, 5.6529



12.3756, 27.2293, 28.7020

# Sweetspot

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



38.0269, 27.2303, 85.6903



76.1744, 73.9229, 104.8615



41.6522, 47.2484, 89.3632



15.7931, 15.1264, 22.3373



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.



38.0269, 27.2303, 85.6903



37.5942, 23.9824, 97.2554



53.9899, 35.4596, 86.4374



15.5057, 15.5424, 19.9044



11.4831, 4.9252, 45.4733



1.0652, 0.4664, 3.7881



# Inverse Universe

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



51.5912, 34.9662, 52.7451



55.2331, 34.0646, 53.3975



43.4706, 68.2958, 27.7217



16.1665, 15.9163, 18.4331



22.4298, 11.2444, 15.4459

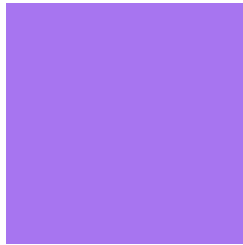


1.9151, 0.9551, 1.5440



# Previews

## White Background



This preview shows how the XYZ color 38.0258, 27.2293, 85.6897 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

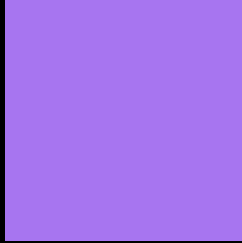
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the XYZ color 38.0258, 27.2293, 85.6897 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

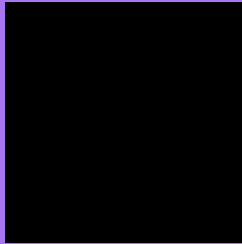
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 38.0258, 27.2293, 85.6897**

## **Background**



This preview shows how black text looks on a background with the XYZ color 38.0258, 27.2293, 85.6897.



This preview shows how white text looks on a background with the XYZ color 38.0258, 27.2293,



# 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

38.0258, 27.2293, 85.6897

### Protanopia

31.2131, 27.7115, 98.3115

### Deuteranopia

28.3299, 27.4703, 81.6510



## Tritanopia

27.3153, 27.1513, 32.6552

# Trichromacy



**Original Color**

38.0258, 27.2293, 85.6897

**Protanomaly**

32.5741, 26.8477, 93.9078

**Deuteranomaly**

30.6048, 26.6837, 82.8943

**Tritanomaly**

30.3738, 26.7194, 48.3562

# Monochromacy



**Original Color**

38.0258, 27.2293, 85.6897

**Achromatopsia**

27.3213, 28.7441, 31.3023

**Achromatomaly**

30.2286, 27.4933, 46.8935

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 38.0258, 27.2293, 85.6897 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(167, 117, 240)` looks like.

```
.text, #text, p{  
    color:rgb(167, 117, 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(167, 117, 240) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(167, 117, 240) }
```

## Border

The CSS property to change the border of an element to XYZ 38.0258, 27.2293, 85.6897 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(167, 117, 240) }
```



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

```
.border{ border-color:rgb(167, 117, 240) }
```

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

Here you see how a box with a 4 pixel `rgb(167, 117, 240)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(167, 117, 240); -webkit-box-  
shadow:4px 4px 4px 4px rgb(167, 117, 240);  
box-shadow:4px 4px 4px 4px rgb(167, 117,  
240) }
```

# Background

The CSS property to change the background color of an element to XYZ 38.0258, 27.2293, 85.6897 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(167, 117, 240) }
```

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

```
.background{ background-color: rgb(167,  
117, 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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