

# Converting Colors

XYZ(38.5622, 32.8631, 77.3001)

Have a look what the booklet for  
XYZ(38.5622, 32.8631, 77.3001)  
contains.

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# Color

**XYZ(38.5879, 32.8724,  
76.9842)**

# Conversions

## Conversions Part 1

Format	Color
Hex	A28FE3
RGB	162, 143, 227
RGB Percent	64%, 56%, 89%
CMY	0.3647, 0.4392, 0.1098
CMYK	0.29, 0.37, 0.00, 0.11
HSL	254°, 60%, 73%
HSV	254°, 37%, 89%
XYZ	38.5879, 32.8724, 76.9842
YIQ	158.2570, -15.6400, 30.1520

# Conversions

## Conversions Part 2

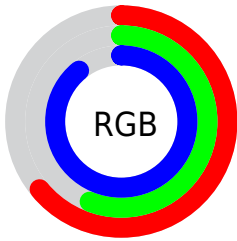
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	162, 143, 227
Decimal	10653667
CIE <sub>Lab</sub>	64.06, 25.16, -40.14
CIE <sub>LCh</sub>	64, 47.375, 302.074
Y <sub>xy</sub>	32.8724, 0.2599, 0.2214
Android (android.graphics.Color)	4288843747 (0xFFA28FE3)
<b>YUV</b>	158.2570, 33.8903, 3.2826
Hunter-Lab	57.3345, 19.8008, -39.4758

# Details

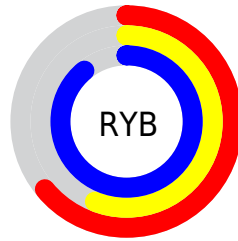
The XYZ color **38.5879, 32.8724, 76.9842** is a light color, and the websafe version is hex **9999FF**. A complement of this color would be **58.4401, 70.3319, 36.4832**, and the grayscale version is **32.4731, 34.1642, 37.2048**.

A 20% lighter version of the original color is **66.9297, 62.0579, 103.0585**, and **17.4494, 13.9571, 40.3024** is the 20% darker color. If you saturate the color by 10%, you get **32.1964, 25.0208, 75.8061**, and if you desaturate by 10%, it is **46.1696, 42.3624, 78.4169**.

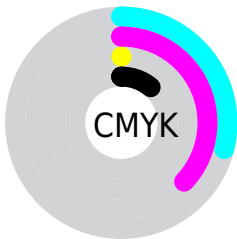
# Distribution



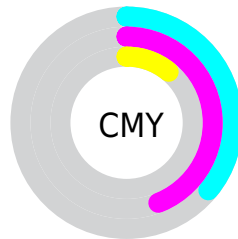
- Red (64%)
- Green (56%)
- Blue (89%)



- Red (64%)
- Yellow (56%)
- Blue (89%)



- Cyan (29%)
- Magenta (37%)
- Yellow (0%)
- Black (11%)



- Cyan (36%)
- Magenta (44%)
- Yellow (11%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 38.5879, 32.8724, 76.9842 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 38.5879, 32.8724, 76.9842 by changing the saturation by 10% instead.



■ 38.5879, 32.8724,  
76.9842

■ 38.5879, 32.8724,  
76.9842

331.3726,  
315.0744, 504.1464

■ 26.6186, 22.0287,  
56.7284

■ 72.3065, 64.1763,  
130.8900

■ 17.4221, 13.8780,  
40.3793

■ 94.7864, 85.4052,  
165.3771

■ 10.6330, 8.0359,  
27.5184

121.5006,  
110.8647, 205.4450

■ 5.8861, 4.1179,  
17.7271

152.8144,  
140.9392, 251.5123

■ 2.8160, 1.7397,  
10.5868

189.0931,  
176.0130, 303.9976

■ 1.0572, 0.4492,  
5.6791

230.7022,

■ 0.0000, 0.0000,

216.4705, 363.3193

2.5853

278.0069,  
262.6962, 429.8961

■ 0.0000, 0.0000,  
0.8849

■ 0.0000, 0.0000,  
0.0000

■ 38.5879, 32.8724,  
76.9842

■ 38.5879, 32.8724,  
76.9842

■ 32.1964, 25.0208,  
75.8061

■ 46.1696, 42.3624,  
78.4169

■ 26.9292, 18.7096,  
74.8656

■ 54.9958, 53.5735,  
80.1157

■ 22.7192, 13.8358,  
74.1467

■ 65.1213, 66.5876,  
82.0940

■ 19.4901, 10.2822,  
73.6310

■ 76.5969, 81.4800,  
84.3637

■ 17.1546, 7.9125,  
73.2967

■ 88.9887, 97.3587,  
86.7755

■ 15.6043, 6.5522,  
73.1158

■ 90.8652, 98.3261,  
86.8633

■ 15.2480, 6.2589,  
73.0780

# Harmonies

## Analogous

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



31.7123, 32.8724, 86.6996



38.5879, 32.8724, 76.9842



44.0492, 32.8724, 55.9753

# Triad

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



38.5879, 32.8724, 76.9842



37.6667, 32.8724, 12.1063



20.0679, 32.8724, 37.1431

# Complementary

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



38.5879, 32.8724, 76.9842



58.4401, 70.3319, 36.4832

# 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.



21.1977, 32.8724, 21.1583



38.5879, 32.8724, 76.9842



30.7808, 32.8724, 10.1506

# Square

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



38.5879, 32.8724, 76.9842



43.4662, 32.8724, 19.5723



24.8969, 32.8724, 12.7655



21.5593, 32.8724, 59.1463



# Rectangle

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



38.5879, 32.8724, 76.9842



45.8014, 32.8724, 41.1186



24.8969, 32.8724, 12.7655



20.1532, 32.8724, 30.9474

# Sweetspot

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



38.5891, 32.8737, 76.9850



79.2060, 79.5041, 105.7790



47.9452, 56.8895, 81.1274



16.5672, 16.5207, 22.5656



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.



38.5891, 32.8737, 76.9850



44.0291, 35.1494, 99.0717



48.3717, 37.9168, 77.4428



13.8863, 14.0436, 18.1231



8.9759, 3.6932, 42.6229



0.7428, 0.3139, 3.1534



# Inverse Universe

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



52.8870, 40.5310, 64.7109



65.2622, 46.5368, 80.1269



48.3221, 65.1158, 36.0096



14.8483, 14.5565, 17.4014



23.0715, 11.3628, 25.0692

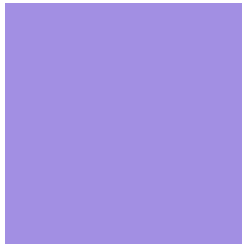


1.7392, 0.8534, 2.0331



# Previews

## White Background



This preview shows how the XYZ color 38.5879, 32.8724, 76.9842 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

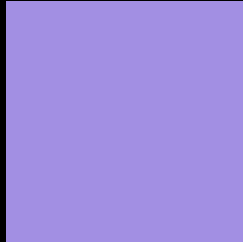
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 38.5879, 32.8724, 76.9842 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

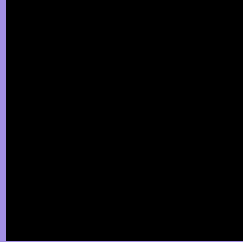
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 38.5879, 32.8724, 76.9842**

## **Background**



This preview shows how black text looks on a background with the XYZ color 38.5879, 32.8724, 76.9842.



This preview shows how white text looks on a background with the XYZ color 38.5879, 32.8724,



# 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

38.5879, 32.8724, 76.9842

### Protanopia

34.9908, 33.2162, 83.1644

### Deuteranopia

33.8986, 33.0595, 75.8286



## Tritanopia

31.3669, 32.7539, 41.7147

# Trichromacy



## Original Color

38.5879, 32.8724, 76.9842

## Protanomaly

35.9604, 32.8101, 80.7816

## Deuteranomaly

35.4490, 32.8791, 76.4294

## Tritanomaly

33.5783, 32.6774, 52.6817

# Monochromacy



## Original Color

38.5879, 32.8724, 76.9842

## Achromatopsia

32.4990, 34.1914, 37.2345

## Achromatomaly

34.2366, 33.5723, 49.4754

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 38.5879, 32.8724, 76.9842 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(162, 143, 227)` looks like.

```
.text, #text, p{  
    color:rgb(162, 143, 227)  
}
```

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(162, 143, 227) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(162, 143, 227) }
```

## Border

The CSS property to change the border of an element to XYZ 38.5879, 32.8724, 76.9842 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(162, 143, 227) }
```



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

```
.border{ border-color:rgb(162, 143, 227) }
```

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

Here you see how a box with a 4 pixel `rgb(162, 143, 227)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(162, 143, 227); -webkit-box-  
shadow:4px 4px 4px 4px rgb(162, 143, 227);  
box-shadow:4px 4px 4px 4px rgb(162, 143,  
227) }
```

# Background

The CSS property to change the background color of an element to XYZ 38.5879, 32.8724, 76.9842 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(162, 143, 227) }
```

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

```
.background{ background-color: rgb(162,  
143, 227) }
```

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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