

# Converting Colors

XYZ(42.5397, 31.6517, 78.3676)

Have a look what the booklet for  
XYZ(42.5397, 31.6517, 78.3676)  
contains.

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# Color

**XYZ(42.7411, 31.8429,  
78.7565)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	BC80E6
RGB	188, 128, 230
RGB Percent	74%, 50%, 90%
CMY	0.2627, 0.4980, 0.0980
CMYK	0.18, 0.44, 0.00, 0.10
HSL	275°, 67%, 70%
HSV	275°, 44%, 90%
XYZ	42.7411, 31.8429, 78.7565
YIQ	157.5680, 3.0180, 44.4420

# Conversions

## Conversions Part 2

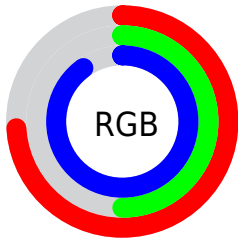
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">188, 128, 230</a>
Decimal	<a href="#">12353766</a>
CIELab	<a href="#">63.21, 41.63, -42.96</a>
CIELCh	<a href="#">63, 59.820, 314.102</a>
Yxy	<a href="#">31.8429, 0.2787, 0.2077</a>
Android (android.graphics.Color)	<a href="#">4290543846</a> ( <a href="#">0xFFBC80E6</a> )
YUV	<a href="#">157.5680, 35.7090, 26.6889</a>
Hunter-Lab	<a href="#">56.4295, 36.4486, -43.2481</a>

# Details

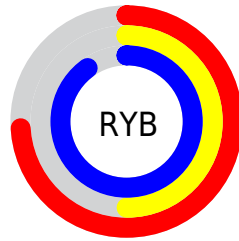
The XYZ color **42.7411, 31.8429, 78.7565** is a light color, and the websafe version is hex **CC99FF**. A complement of this color would be **48.7716, 66.6990, 30.7271**, and the grayscale version is **32.1478, 33.8220, 36.8321**.

A 20% lighter version of the original color is **72.7840, 60.2687, 102.4046**, and **19.9667, 13.3503, 41.5689** is the 20% darker color. If you saturate the color by 10%, you get **37.8173, 25.3451, 77.7623**, and if you desaturate by 10%, it is **48.5002, 39.7819, 79.9859**.

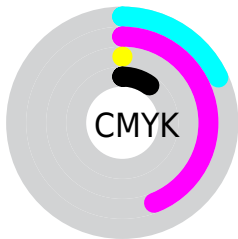
# Distribution



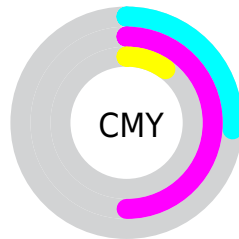
- Red (74%)
- Green (50%)
- Blue (90%)



- Red (74%)
- Yellow (50%)
- Blue (90%)



- Cyan (18%)
- Magenta (44%)
- Yellow (0%)
- Black (10%)



- Cyan (26%)
- Magenta (50%)
- Yellow (10%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 42.7411, 31.8429, 78.7565 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 42.7411, 31.8429, 78.7565 by changing the saturation by 10% instead.



42.7411, 31.8429,  
78.7565

42.7411, 31.8429,  
78.7565

348.4855,  
310.4030, 510.3280

29.8757, 21.2415,  
58.1755

78.5782, 62.5647,  
133.4116

19.8918, 13.3007,  
41.5341

102.2805, 83.4540,  
168.3227

12.4243, 7.6359,  
28.4138

130.3259,  
108.5413, 208.8476

7.1076, 3.8629,  
18.3961

163.0797,  
138.2111, 255.4049

3.5764, 1.5972,  
11.0624

200.9071,  
172.8478, 308.4130

1.4654, 0.3557,  
5.9941

244.1737,

0.3021, 0.0000,

212.8357, 368.2906

2.7728

293.2447,  
258.5593, 435.4560

■ 0.0000, 0.0000,  
0.9798

■ 0.0000, 0.0000,  
0.0000

■ 42.7411, 31.8429,  
78.7565

■ 42.7411, 31.8429,  
78.7565

■ 37.8173, 25.3451,  
77.7623

■ 48.5002, 39.7819,  
79.9859

■ 33.6759, 20.1901,  
76.9856

■ 55.1361, 49.2441,  
81.4625

■ 30.2626, 16.2729,  
76.4094

■ 62.6916, 60.3096,  
83.2002

■ 27.5137, 13.4706,  
76.0134

■ 71.2051, 73.0519,  
85.2109

■ 25.3519, 11.6332,  
75.7727

■ 80.7132, 87.5396,  
87.5062

■ 24.3222, 10.8886,  
75.6832

■ 87.6384, 96.6143,  
88.8928

■ 91.0246, 98.3600,  
89.0513

■ 91.2830, 98.4932,  
89.0634

# Harmonies

## Analogous

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



34.3093, 31.8429, 100.2852



42.7411, 31.8429, 78.7565



48.2876, 31.8429, 48.7088

# Triad

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



42.7411, 31.8429, 78.7565



34.8359, 31.8429, 6.7213



17.3105, 31.8429, 46.9981

# Complementary

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



42.7411, 31.8429, 78.7565



48.7716, 66.6990, 30.7271

# 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.



17.3996, 31.8429, 23.6290



42.7411, 31.8429, 78.7565



26.5530, 31.8429, 6.5982

# Square

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



42.7411, 31.8429, 78.7565



43.1867, 31.8429, 11.6484



20.4900, 31.8429, 11.1669



20.2192, 31.8429, 77.0236



# Rectangle

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



42.7411, 31.8429, 78.7565



49.0670, 31.8429, 31.5140



20.4900, 31.8429, 11.1669



17.0100, 31.8429, 38.0332

# Sweetspot

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



42.7423, 31.8442, 78.7572



80.5267, 78.1453, 105.4471



37.6548, 39.2409, 80.4531



16.7531, 16.0107, 22.4573



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.



42.7423, 31.8442, 78.7572



48.3947, 32.8070, 98.3894



53.4710, 37.5097, 73.1789



14.3913, 14.3040, 18.1468



13.9119, 6.2377, 42.8539



1.1330, 0.5150, 3.1717



# Inverse Universe

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



47.6090, 35.1648, 42.3096



55.7255, 37.7717, 45.1689



41.6795, 62.9754, 33.4394



14.6218, 14.4659, 16.2089



19.6943, 10.0119, 7.2851

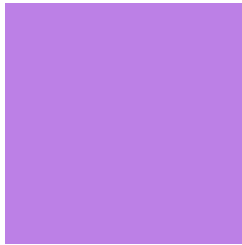


1.5006, 0.7580, 0.7767



# Previews

## White Background



This preview shows how the XYZ color 42.7411, 31.8429, 78.7565 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

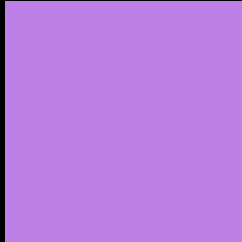
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 42.7411, 31.8429, 78.7565 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

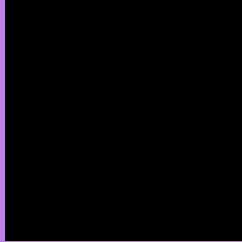
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 42.7411, 31.8429, 78.7565**

## **Background**



This preview shows how black text looks on a background with the XYZ color 42.7411, 31.8429, 78.7565.



This preview shows how white text looks on a background with the XYZ color 42.7411, 31.8429,



# 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

42.7411, 31.8429, 78.7565

### Protanopia

34.9447, 32.2297, 94.0017

### Deuteranopia

32.9872, 32.1037, 75.6922



## Tritanopia

34.0306, 31.8812, 35.8126

# Trichromacy



## Original Color

42.7411, 31.8429, 78.7565



## Protanomaly

36.6845, 31.4195, 88.1355



## Deuteranomaly

35.7202, 31.3940, 76.8500



## Tritanomaly

36.6023, 31.5874, 48.9676

# Monochromacy



## Original Color

42.7411, 31.8429, 78.7565



## Achromatopsia

32.4990, 34.1914, 37.2345



## Achromatomaly

35.4476, 32.7631, 49.8030

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 42.7411, 31.8429, 78.7565 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(188, 128, 230)` looks like.

```
.text, #text, p{  
    color:rgb(188, 128, 230)  
}
```

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(188, 128, 230) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(188, 128, 230) }
```

## Border

The CSS property to change the border of an element to XYZ 42.7411, 31.8429, 78.7565 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(188, 128, 230) }
```



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

```
.border{ border-color:rgb(188, 128, 230) }
```

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

Here you see how a box with a 4 pixel `rgb(188, 128, 230)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(188, 128, 230); -webkit-box-  
shadow:4px 4px 4px 4px rgb(188, 128, 230);  
box-shadow:4px 4px 4px 4px rgb(188, 128,  
230) }
```

# Background

The CSS property to change the background color of an element to XYZ 42.7411, 31.8429, 78.7565 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(188, 128, 230) }
```

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

```
.background{ background-color: rgb(188,  
128, 230) }
```

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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