

# Converting Colors

XYZ(42.5220, 31.7595, 77.4396)

Have a look what the booklet for  
XYZ(42.5220, 31.7595, 77.4396)  
contains.

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# Color

**XYZ(42.4618, 31.7311,  
77.2855)**

# Conversions

## Conversions Part 1

Format	Color
Hex	BC80E4
RGB	188, 128, 228
RGB Percent	74%, 50%, 89%
CMY	0.2627, 0.4980, 0.1059
CMYK	0.18, 0.44, 0.00, 0.11
HSL	276°, 65%, 70%
HSV	276°, 44%, 89%
XYZ	42.4618, 31.7311, 77.2855
YIQ	157.3400, 3.6600, 43.8200

# Conversions

## Conversions Part 2

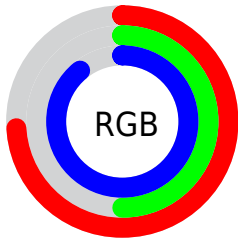
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	188, 128, 228
Decimal	12353764
CIE <sub>Lab</sub>	63.12, 41.19, -41.99
CIE <sub>LCh</sub>	63, 58.824, 314.450
Yxy	31.7311, 0.2803, 0.2095
Android (android.graphics.Color)	4290543844 (0xFFBC80E4)
YUV	157.3400, 34.8354, 26.8888
Hunter-Lab	56.3304, 35.9751, -41.9149

# Details

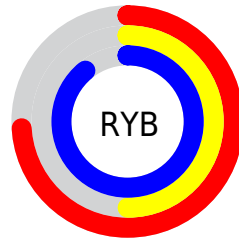
The XYZ color **42.4618, 31.7311, 77.2855** is a light color, and the websafe version is hex **CC99FF**. A complement of this color would be **47.7889, 65.3708, 30.5224**, and the grayscale version is **32.0487, 33.7177, 36.7186**.

A 20% lighter version of the original color is **72.7840, 60.2687, 102.4046**, and **19.7731, 13.2729, 40.5495** is the 20% darker color. If you saturate the color by 10%, you get **37.6393, 25.3158, 76.3019**, and if you desaturate by 10%, it is **48.0967, 39.5583, 78.4998**.

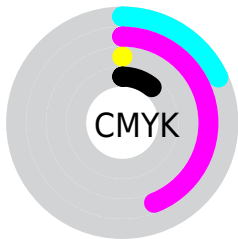
# Distribution



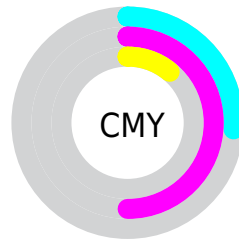
- Red (74%)
- Green (50%)
- Blue (89%)



- Red (74%)
- Yellow (50%)
- Blue (89%)



- Cyan (18%)
- Magenta (44%)
- Yellow (0%)
- Black (11%)




- Cyan (26%)
- Magenta (50%)
- Yellow (11%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 42.4618, 31.7311, 77.2855 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 42.4618, 31.7311, 77.2855 by changing the saturation by 10% instead.





 42.4618, 31.7311,  
77.2855

 42.4618, 31.7311,  
77.2855


347.3529,  
309.8925, 505.2004


 29.6558, 21.1562,  
56.9743


 78.1589, 62.3893,  
131.3191

 19.7242, 13.2382,  
40.5754


 101.7806, 83.2414,  
165.8786

 12.3018, 7.5928,  
27.6702


 129.7382,  
108.2880, 206.0245

 7.0232, 3.8355,  
17.8404

162.3971,  
137.9135, 252.1755

 3.5231, 1.5820,  
10.6672

200.1227,  
172.5023, 304.7500

 1.4360, 0.3454,  
5.7322

243.2803,

 0.2817, 0.0000,

212.4388, 364.1666

2.6168

292.2352,  
258.1074, 430.8439

■ 0.0000, 0.0000,  
0.9011

■ 0.0000, 0.0000,  
0.0000

■ 42.4618, 31.7311,  
77.2855

■ 42.4618, 31.7311,  
77.2855

■ 37.6393, 25.3158,  
76.3019

■ 48.0967, 39.5583,  
78.4998

■ 33.5778, 20.2167,  
75.5318


■ 54.5842, 48.8771,  
79.9566


■ 30.2249, 16.3318,  
74.9586


■ 61.9656, 59.7656,  
81.6693


■ 27.5189, 13.5419,  
74.5627


■ 70.2785, 72.2953,  
83.6496


 25.3854, 11.7021,  
74.3201

 79.5580, 86.5331,  
85.9087

 24.2878, 10.9031,  
74.2237

 86.6299, 96.1267,  
87.3877

 89.8512, 97.7874,  
87.5385

 91.0037, 98.3815,  
87.5924

# Harmonies

## Analogous

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



34.2240, 31.7311, 98.4205



42.4618, 31.7311, 77.2855



47.8315, 31.7311, 47.9698

# Triad

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



42.4618, 31.7311, 77.2855



34.5395, 31.7311, 6.9015



17.4305, 31.7311, 46.9465

# Complementary

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



42.4618, 31.7311, 77.2855



47.7889, 65.3708, 30.5224

# 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.



17.4843, 31.7311, 23.8998



42.4618, 31.7311, 77.2855



26.4302, 31.7311, 6.8259

# Square

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



42.4618, 31.7311, 77.2855



42.7283, 31.7311, 11.7503



20.4974, 31.7311, 11.4574



20.3342, 31.7311, 76.2531



# Rectangle

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



42.4618, 31.7311, 77.2855



48.5479, 31.7311, 31.1963



20.4974, 31.7311, 11.4574



17.1224, 31.7311, 38.1353

# Sweetspot

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



42.4629, 31.7324, 77.2862



80.6603, 78.2142, 105.4533



36.9094, 38.1971, 78.8267



16.7861, 16.0277, 22.4589



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.



42.4629, 31.7324, 77.2862



48.8200, 33.0262, 98.4093



52.3698, 36.9953, 70.7110



14.4081, 14.3126, 18.1476



14.1618, 6.3666, 42.8656



1.1507, 0.5242, 3.1725



# Inverse Universe

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



46.7828, 34.7606, 41.2903



55.5696, 37.7093, 44.3477



41.2339, 61.9117, 33.8229



14.6146, 14.4630, 16.1711



19.6252, 9.9843, 6.9214

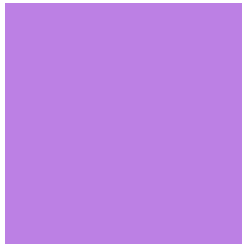


1.4951, 0.7557, 0.7477



# Previews

## White Background



This preview shows how the XYZ color 42.4618, 31.7311, 77.2855 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

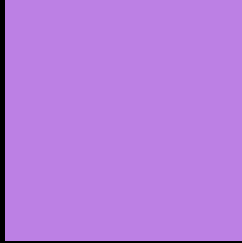
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 42.4618, 31.7311, 77.2855 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

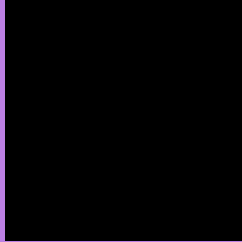
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 42.4618, 31.7311, 77.2855**

## **Background**



This preview shows how black text looks on a background with the XYZ color 42.4618, 31.7311, 77.2855.



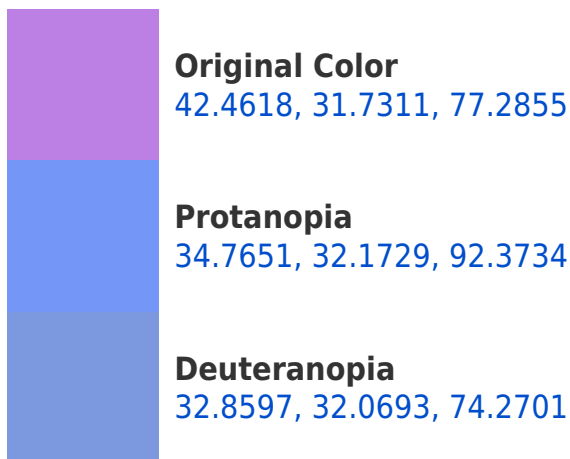
This preview shows how white text looks on a background with the XYZ color 42.4618, 31.7311,



# 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





## Tritanopia

33.7941, 31.5432, 35.3176

# Trichromacy



## Original Color

42.4618, 31.7311, 77.2855

## Protanomaly

36.5565, 31.3881, 86.5698

## Deuteranomaly

35.4457, 31.2842, 75.4044

## Tritanomaly

36.3544, 31.2577, 48.3732

# Monochromacy



## Original Color

42.4618, 31.7311, 77.2855

## Achromatopsia

32.0474, 33.7164, 36.7171

## Achromatomaly

34.9746, 32.3015, 49.1912

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 42.4618, 31.7311, 77.2855 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, 228)` looks like.

```
.text, #text, p{  
    color:rgb(188, 128, 228)  
}
```

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, 228) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(188, 128, 228) }
```

## Border

The CSS property to change the border of an element to XYZ 42.4618, 31.7311, 77.2855 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, 228) }
```



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

```
.border{ border-color:rgb(188, 128, 228) }
```

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, 228)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(188, 128, 228); -webkit-box-  
shadow:4px 4px 4px 4px rgb(188, 128, 228);  
box-shadow:4px 4px 4px 4px rgb(188, 128,  
228) }
```

# Background

The CSS property to change the background color of an element to XYZ 42.4618, 31.7311, 77.2855 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, 228) }
```

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

```
.background{ background-color: rgb(188,  
128, 228) }
```

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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