

# Converting Colors

XYZ(46.2139, 31.9629, 98.3415)

Have a look what the booklet for  
XYZ(46.2139, 31.9629, 98.3415)  
contains.

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# Color

**XYZ(46.1226, 31.8419,  
98.3229)**

# Conversions

## Conversions Part 1

Format	Color
Hex	BE79FF
RGB	190, 121, 255
RGB Percent	75%, 47%, 100%
CMY	0.2549, 0.5255, 0.0000
CMYK	0.25, 0.53, 0.00, 0.00
HSL	271°, 100%, 74%
HSV	271°, 53%, 100%
XYZ	46.1226, 31.8419, 98.3229
YIQ	156.9070, -1.8900, 56.3020

# Conversions

## Conversions Part 2

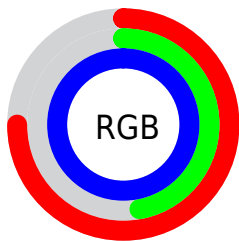
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">190, 121, 255</a>
Decimal	<a href="#">12483071</a>
CIELab	<a href="#">63.21, 51.48, -56.74</a>
CIELCh	<a href="#">63, 76.615, 312.217</a>
Yxy	<a href="#">31.8419, 0.2616, 0.1806</a>
Android (android.graphics.Color)	<a href="#">4290673151 (0xFFBE79FF)</a>
YUV	<a href="#">156.9070, 48.3598, 29.0226</a>
Hunter-Lab	<a href="#">56.4286, 47.1490, -63.8086</a>

# Details

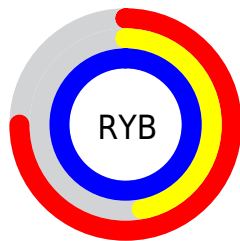
The XYZ color **46.1226, 31.8419, 98.3229** is a light color, and the websafe version is hex **CC66FF**. A complement of this color would be **59.4611, 83.3396, 31.0424**, and the grayscale version is **31.7974, 33.4534, 36.4307**.

A 20% lighter version of the original color is **72.4469, 58.0197, 101.9883**, and **21.8790, 13.2740, 54.2323** is the 20% darker color. If you saturate the color by 10%, you get **40.4639, 24.9171, 97.2845**, and if you desaturate by 10%, it is **52.8646, 40.5418, 99.6468**.

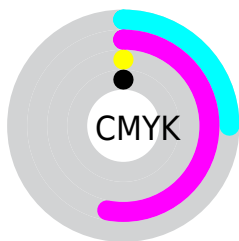
# Distribution



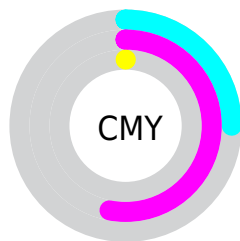
- Red (75%)
- Green (47%)
- Blue (100%)



- Red (75%)
- Yellow (47%)
- Blue (100%)



- Cyan (25%)
- Magenta (53%)
- Yellow (0%)
- Black (0%)




- Cyan (25%)
- Magenta (53%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 46.1226, 31.8419, 98.3229 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 46.1226, 31.8419, 98.3229 by changing the saturation by 10% instead.





 46.1226, 31.8419,  
98.3229


 46.1226, 31.8419,  
98.3229


362.0090,  
310.3984, 576.0029

 32.5476, 21.2408,  
74.2916


 83.6292, 62.5632,  
160.8823

 21.9377, 13.3001,  
54.5345

 108.2915, 83.4521,  
200.2474

 13.9275, 7.6355,  
38.6331


 137.3803,  
108.5390, 245.5609

 8.1516, 3.8626,  
26.1688

171.2609,  
138.2084, 297.2414

 4.2447, 1.5970,  
16.7230

210.2988,  
172.8447, 355.7072

 1.8415, 0.3556,  
9.8774

254.8592,

 0.5425, 0.0000,

212.8322, 421.3771

5.2132

305.3074,  
258.5553, 494.6695

■ 0.0000, 0.0000,  
2.3120

■ 0.0000, 0.0000,  
0.7379

■ 46.1226, 31.8419,  
98.3229

■ 46.1226, 31.8419,  
98.3229

■ 40.4639, 24.9171,  
97.2845

■ 52.8646, 40.5418,  
99.6468

■ 35.8126, 19.6285,  
96.5089

■ 60.7516, 51.1342,  
101.2757

■ 32.0868, 15.8213,  
95.9704

■ 69.8441, 63.7303,  
103.2277

■ 29.1872, 13.3072,  
95.6380

■ 80.1973, 78.4314,  
105.5197

■ 27.4580, 12.0700,  
95.4903

■ 91.8624, 95.3318,  
108.1670

95.0500, 100.0000,  
108.9000

# Harmonies

## Analogous

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



34.7842, 31.8419, 128.6780



46.1226, 31.8419, 98.3229



54.1054, 31.8419, 55.7178

# Triad

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



46.1226, 31.8419, 98.3229



36.9231, 31.8419, 3.5044



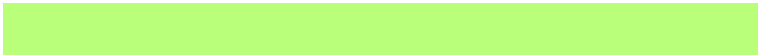
14.4003, 31.8419, 48.5421

# Complementary

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



46.1226, 31.8419, 98.3229



59.4611, 83.3396, 31.0424

# 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.



14.7146, 31.8419, 19.7292



46.1226, 31.8419, 98.3229



26.1548, 31.8419, 3.1958

# Square

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



46.1226, 31.8419, 98.3229



47.9999, 31.8419, 8.3855



18.5353, 31.8419, 6.9246



17.5447, 31.8419, 90.5133



# Rectangle

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



46.1226, 31.8419, 98.3229



55.5291, 31.8419, 32.4615



18.5353, 31.8419, 6.9246



14.1301, 31.8419, 36.9773

# Sweetspot

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



46.1238, 31.8431, 98.3231



76.4774, 73.1123, 104.6890



43.9192, 47.2523, 101.4136



15.9103, 14.9965, 22.3060



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.



46.1238, 31.8431, 98.3231



40.2324, 24.6437, 97.2440



66.1278, 42.1555, 99.2593



17.8951, 17.8377, 22.7498



14.5207, 6.3962, 49.9038



1.5400, 0.6878, 4.8649



# Inverse Universe

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



56.9407, 38.4807, 50.8807



52.7468, 32.3169, 42.6262



47.0970, 76.9657, 30.4638



18.3765, 18.1339, 20.5998



23.5143, 11.8950, 11.3588

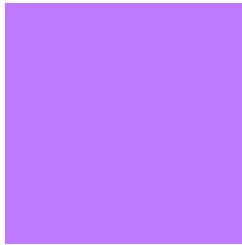


2.3444, 1.1801, 1.3952



# Previews

## White Background



This preview shows how the XYZ color 46.1226, 31.8419, 98.3229 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

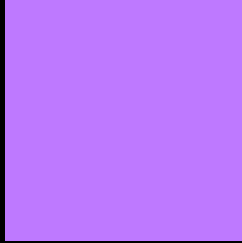
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 46.1226, 31.8419, 98.3229 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

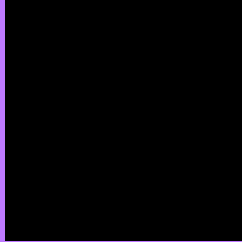
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 46.1226, 31.8419, 98.3229**

## **Background**



This preview shows how black text looks on a background with the XYZ color 46.1226, 31.8419, 98.3229.



This preview shows how white text looks on a background with the XYZ color 46.1226, 31.8419,



# 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

46.1226, 31.8419, 98.3229

### Protanopia

35.2630, 32.2839, 98.9806

### Deuteranopia

33.2182, 32.3214, 93.2948



## Tritanopia

33.5983, 31.8763, 36.2802

# Trichromacy



## Original Color

46.1226, 31.8419, 98.3229



## Protanomaly

37.7639, 31.0885, 98.6181



## Deuteranomaly

36.2915, 31.0569, 95.3486



## Tritanomaly

37.1617, 31.3253, 54.5398

# Monochromacy



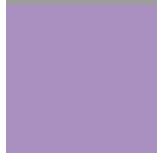
## Original Color

46.1226, 31.8419, 98.3229



## Achromatopsia

32.0474, 33.7164, 36.7171



## Achromatomaly

35.9611, 32.2318, 54.7781

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 46.1226, 31.8419, 98.3229 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(190, 121, 255)` looks like.

```
.text, #text, p{  
    color:rgb(190, 121, 255)  
}
```

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(190, 121, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(190, 121, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 46.1226, 31.8419, 98.3229 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(190, 121, 255) }
```



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

```
.border{ border-color:rgb(190, 121, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(190, 121, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(190, 121, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(190, 121, 255);  
box-shadow:4px 4px 4px 4px rgb(190, 121,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 46.1226, 31.8419, 98.3229 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(190, 121, 255) }
```

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

```
.background{ background-color: rgb(190,  
121, 255) }
```

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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