

# Converting Colors

XYZ(31.2572, 22.4182, 42.9476)

Have a look what the booklet for  
XYZ(31.2572, 22.4182, 42.9476)  
contains.

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# Color

**XYZ(31.3126, 22.4598,  
42.7292)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B467AE
RGB	180, 103, 174
RGB Percent	71%, 40%, 68%
CMY	0.2941, 0.5961, 0.3176
CMYK	0.00, 0.43, 0.03, 0.29
HSL	305°, 34%, 55%
HSV	305°, 43%, 71%
XYZ	31.3126, 22.4598, 42.7292
YIQ	134.1170, 23.1010, 38.4050

# Conversions

## Conversions Part 2

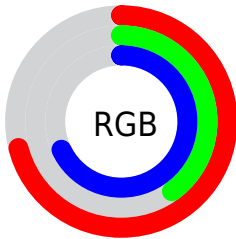
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	180, 103, 174
Decimal	11823022
CIE Lab	54.51, 41.40, -24.85
CIE LCh	55, 48.286, 329.020
Yxy	22.4598, 0.3245, 0.2327
Android (android.graphics.Color)	4290013102 (0xFFB467AE)
YUV	134.1170, 19.6623, 40.2394
Hunter-Lab	47.3918, 35.0026, -20.2826

# Details

The XYZ color **31.3126, 22.4598, 42.7292** is a light color, and the websafe version is hex **996699**. A complement of this color would be **24.6761, 36.6310, 20.2393**, and the grayscale version is **22.6277, 23.8061, 25.9249**.

A 20% lighter version of the original color is **61.0964, 47.4946, 80.8102**, and **13.1366, 8.1964, 18.9789** is the 20% darker color. If you saturate the color by 10%, you get **29.5754, 19.2027, 41.4791**, and if you desaturate by 10%, it is **33.4381, 26.4903, 44.1162**.

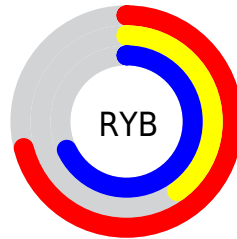
# Distribution



Red (71%)

Green (40%)

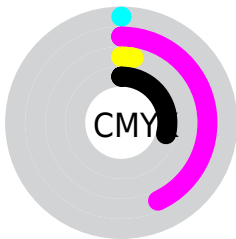
Blue (68%)



Red (71%)

Yellow (40%)

Blue (68%)

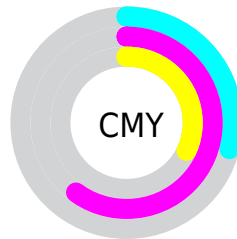


Cyan (0%)

Magenta (43%)

Yellow (3%)

Black (29%)



Cyan (29%)

Magenta (60%)


Yellow (32%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 31.3126, 22.4598, 42.7292 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 31.3126, 22.4598, 42.7292 by changing the saturation by 10% instead.




 31.3126, 22.4598,  
42.7292


 31.3126, 22.4598,  
42.7292


299.7771,  
264.9381, 373.3854


 20.9900, 14.1951,  
29.3429


 61.1044, 47.5048,  
80.5840


 13.2291, 8.2565,  
19.0925


 81.3043, 65.0539,  
105.8896

 7.6646, 4.2595,  
11.5597


 105.5273, 86.4666,  
136.0053

 3.9311, 1.8198,  
6.3257

 134.1389,  
112.1273, 171.3498

 1.6632, 0.4995,  
2.9722

167.5043,  
142.4205, 212.3415

 0.4331, 0.0000,  
1.0804

205.9889,

 0.0000, 0.0000,

177.7304, 259.3989

0.0000

249.9580,  
218.4415, 312.9407

■ 31.3126, 22.4598,  
42.7292

■ 31.3126, 22.4598,  
42.7292

■ 29.5754, 19.2027,  
41.4791

■ 33.4381, 26.4903,  
44.1162

■ 28.1993, 16.6659,  
40.3562

■ 35.9724, 31.3366,  
45.6463

■ 27.1572, 14.7948,  
39.3516

■ 38.9373, 37.0417,  
47.3270

■ 26.4169, 13.5253,  
38.4547

■ 42.3522, 43.6447,  
49.1649

■ 25.9404, 12.7809,  
37.6526

■ 46.2356, 51.1823,  
51.1661

■ 25.7031, 12.4556,  
37.1131

■ 50.6048, 59.6891,  
53.3363

■ 55.4762, 69.1980,  
55.6811

■ 60.8654, 79.7403,  
58.2057

■ 63.5122, 84.7952,  
59.8234

# Harmonies

## Analogous

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



26.6734, 22.4598, 59.8098



31.3126, 22.4598, 42.7292



33.2219, 22.4598, 24.9565

# Triad

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



31.3126, 22.4598, 42.7292



21.5218, 22.4598, 5.3586



13.6291, 22.4598, 41.4894

# Complementary

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



31.3126, 22.4598, 42.7292



24.6761, 36.6310, 20.2393

# 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.



12.7047, 22.4598, 23.9600



31.3126, 22.4598, 42.7292



16.7822, 22.4598, 6.7995

# Square

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



31.3126, 22.4598, 42.7292



27.0245, 22.4598, 7.0140



13.7585, 22.4598, 12.3135



16.5268, 22.4598, 58.9099



# Rectangle

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



31.3126, 22.4598, 42.7292



32.4835, 22.4598, 16.1346



13.7585, 22.4598, 12.3135



13.1008, 22.4598, 35.2337

# Sweetspot

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



31.3133, 22.4608, 42.7297



70.3434, 66.6673, 85.6709



19.2901, 16.1935, 45.2895



14.9371, 13.8952, 18.3682



86.6293, 91.1408, 99.2523



17.0014, 17.8868, 19.4787



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



31.3133, 22.4608, 42.7297



53.8828, 35.2965, 75.4047



28.1436, 21.1929, 26.0378



8.8209, 8.6351, 10.5552



17.9503, 8.6977, 25.9620



0.5732, 0.2770, 0.8611



# Inverse Universe

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



31.3133, 22.4608, 42.7297



53.8828, 35.2965, 75.4047



27.1534, 37.6219, 33.2848



8.8209, 8.6351, 10.5552



17.9503, 8.6977, 25.9620



0.5732, 0.2770, 0.8611



# Previews

## White Background



This preview shows how the XYZ color 31.3126, 22.4598, 42.7292 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

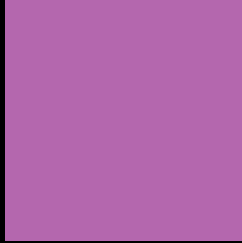
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the XYZ color 31.3126, 22.4598, 42.7292 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 31.3126, 22.4598, 42.7292**

## **Background**



This preview shows how black text looks on a background with the XYZ color 31.3126, 22.4598, 42.7292.



This preview shows how white text looks on a background with the XYZ color 31.3126, 22.4598,



# 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

31.3126, 22.4598, 42.7292

### Protanopia

23.8945, 22.8468, 54.1894

### Deuteranopia

23.1801, 22.7760, 40.7106



## Tritanopia

27.0480, 22.4634, 21.6492

# Trichromacy



**Original Color**

31.3126, 22.4598, 42.7292

**Protanomaly**

25.6778, 22.1717, 49.9399

**Deuteranomaly**

25.5688, 22.3025, 41.4853

**Tritanomaly**

28.3629, 22.3350, 28.4074

# Monochromacy



**Original Color**

31.3126, 22.4598, 42.7292

**Achromatopsia**

22.6597, 23.8398, 25.9615

**Achromatomaly**

25.2703, 22.9152, 31.5249

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 31.3126, 22.4598, 42.7292 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(180, 103, 174)` looks like.

```
.text, #text, p{  
    color:rgb(180, 103, 174)  
}
```

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(180, 103, 174) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(180, 103, 174) }
```

## Border

The CSS property to change the border of an element to XYZ 31.3126, 22.4598, 42.7292 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(180, 103, 174) }
```



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

```
.border{ border-color:rgb(180, 103, 174) }
```

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

Here you see how a box with a 4 pixel `rgb(180, 103, 174)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(180, 103, 174); -webkit-box-  
shadow:4px 4px 4px 4px rgb(180, 103, 174);  
box-shadow:4px 4px 4px 4px rgb(180, 103,  
174) }
```

# Background

The CSS property to change the background color of an element to XYZ 31.3126, 22.4598, 42.7292 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(180, 103, 174) }
```

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

```
.background{ background-color: rgb(180,  
103, 174) }
```

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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