

# Converting Colors

XYZ(31.4037, 22.8190, 42.2123)

Have a look what the booklet for  
XYZ(31.4037, 22.8190, 42.2123)  
contains.

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# Color

**XYZ(31.4168, 22.8236,  
42.2847)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	B469AD
RGB	180, 105, 173
RGB Percent	71%, 41%, 68%
CMY	0.2941, 0.5882, 0.3216
CMYK	0.00, 0.42, 0.04, 0.29
HSL	306°, 33%, 56%
HSV	306°, 42%, 71%
XYZ	31.4168, 22.8236, 42.2847
YIQ	135.1770, 22.8720, 37.0480

# Conversions

## Conversions Part 2

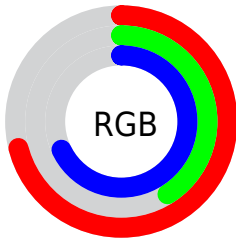
<b>Format</b>	<b>Color</b>
<b>RYB</b>	180, 105, 173
Decimal	11823533
CIELab	54.89, 40.15, -23.69
CIELCh	55, 46.618, 329.455
Yxy	22.8236, 0.3255, 0.2365
Android (android.graphics.Color)	4290013613 (0xFFB469AD)
YUV	135.1770, 18.6467, 39.3098
Hunter-Lab	47.7741, 33.7792, -19.0356

# Details

The XYZ color **31.4168, 22.8236, 42.2847** is a light color, and the websafe version is hex **996699**. A complement of this color would be **25.0726, 36.8164, 21.1155**, and the grayscale version is **23.0225, 24.2215, 26.3772**.

A 20% lighter version of the original color is **61.2948, 48.1154, 80.1854**, and **13.3135, 8.4300, 18.6948** is the 20% darker color. If you saturate the color by 10%, you get **29.6125, 19.4730, 40.8863**, and if you desaturate by 10%, it is **33.6127, 26.9531, 43.8241**.

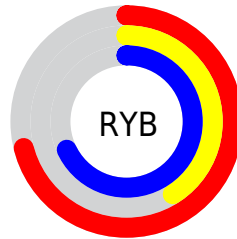
# Distribution



Red (71%)

Green (41%)

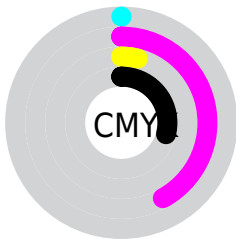
Blue (68%)



Red (71%)

Yellow (41%)

Blue (68%)

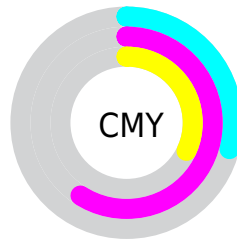


Cyan (0%)

Magenta (42%)

Yellow (4%)

Black (29%)



Cyan (29%)

Magenta (59%)

Yellow (32%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 31.4168, 22.8236, 42.2847 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 31.4168, 22.8236, 42.2847 by changing the saturation by 10% instead.



■ 31.4168, 22.8236,  
42.2847

■ 31.4168, 22.8236,  
42.2847

300.2466,  
266.8177, 371.4962

■ 21.0698, 14.4633,  
28.9970

■ 61.2671, 48.1035,  
79.9051

■ 13.2878, 8.4436,  
18.8330

■ 81.5011, 65.7919,  
105.0749

■ 7.7054, 4.3801,  
11.3741

■ 105.7615, 87.3585,  
135.0424

■ 3.9572, 1.8884,  
6.2017

■ 134.4136,  
113.1876, 170.2264

■ 1.6780, 0.5414,  
2.8974

167.8228,  
143.6637, 211.0452

■ 0.4424, 0.0000,  
1.0425

206.3545,

■ 0.0000, 0.0000,

179.1712, 257.9174

0.0000

250.3740,  
220.0944, 311.2615

■ 31.4168, 22.8236,  
42.2847

■ 31.4168, 22.8236,  
42.2847

■ 29.6125, 19.4730,  
40.8863

■ 33.6127, 26.9531,  
43.8241

■ 28.1727, 16.8489,  
39.6193

■ 36.2204, 31.9034,  
45.5108

■ 27.0708, 14.8971,  
38.4749


■ 39.2616, 37.7173,  
47.3520


■ 26.2752, 13.5548,  
37.4426


■ 42.7556, 44.4336,  
49.3544


■ 25.7486, 12.7472,  
36.5099


■ 46.7206, 52.0886,  
51.5241

 25.4514, 12.3549,  
35.7872

 51.1739, 60.7168,  
53.8667

 56.1318, 70.3509,  
56.3879

 61.6100, 81.0220,  
59.0928

 63.6729, 84.8595,  
60.6697

# Harmonies

## Analogous

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



26.9509, 22.8236, 58.7443



31.4168, 22.8236, 42.2847



33.2131, 22.8236, 25.1227

# Triad

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



31.4168, 22.8236, 42.2847



21.7878, 22.8236, 5.8829



14.1453, 22.8236, 41.6200

# Complementary

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



31.4168, 22.8236, 42.2847



25.0726, 36.8164, 21.1155

# 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.



13.2024, 22.8236, 24.5813



31.4168, 22.8236, 42.2847



17.1680, 22.8236, 7.4038

# Square

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



31.4168, 22.8236, 42.2847



27.1405, 22.8236, 7.5252



14.2165, 22.8236, 13.0199



17.0283, 22.8236, 58.2652



# Rectangle

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



31.4168, 22.8236, 42.2847



32.4664, 22.8236, 16.5325



14.2165, 22.8236, 13.0199



13.6134, 22.8236, 35.5757

# Sweetspot

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



31.4175, 22.8246, 42.2852



70.8699, 67.7774, 85.6703



19.8779, 16.7954, 45.3747



15.1572, 14.3420, 18.4215



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.



31.4175, 22.8246, 42.2852



53.9325, 35.7496, 74.3308



28.3366, 21.5923, 26.0612



8.8151, 8.6328, 10.5250



17.7765, 8.6282, 25.0469



0.5692, 0.2754, 0.8401



# Inverse Universe

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



31.4175, 22.8246, 42.2852



53.9325, 35.7496, 74.3308



27.5528, 37.8085, 34.1758



8.8151, 8.6328, 10.5250



17.7765, 8.6282, 25.0469



0.5692, 0.2754, 0.8401



# Previews

## White Background



This preview shows how the XYZ color 31.4168, 22.8236, 42.2847 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

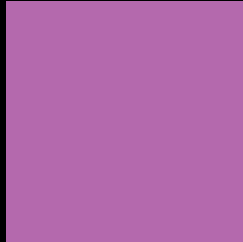
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the XYZ color 31.4168, 22.8236, 42.2847 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 31.4168, 22.8236, 42.2847**

## **Background**



This preview shows how black text looks on a background with the XYZ color 31.4168, 22.8236, 42.2847.



This preview shows how white text looks on a background with the XYZ color 31.4168, 22.8236,



# 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

31.4168, 22.8236, 42.2847

### Protanopia

24.0526, 23.1505, 53.0700

### Deuteranopia

23.4691, 22.9251, 40.7241



## Tritanopia

27.2244, 22.7154, 22.0184

# Trichromacy



## Original Color

31.4168, 22.8236, 42.2847

## Protanomaly

25.7477, 22.4118, 48.8678

## Deuteranomaly

25.6492, 22.3550, 40.9933

## Tritanomaly

28.4714, 22.5520, 28.4435

# Monochromacy



## Original Color

31.4168, 22.8236, 42.2847

## Achromatopsia

23.0288, 24.2281, 26.3844

## Achromatomaly

25.3950, 23.1645, 31.5665

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 31.4168, 22.8236, 42.2847 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, 105, 173)` looks like.

```
.text, #text, p{  
    color:rgb(180, 105, 173)  
}
```

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, 105, 173) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(180, 105, 173) }
```

## Border

The CSS property to change the border of an element to XYZ 31.4168, 22.8236, 42.2847 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, 105, 173) }
```



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

```
.border{ border-color:rgb(180, 105, 173) }
```

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

Here you see how a box with a 4 pixel `rgb(180, 105, 173)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(180, 105, 173); -webkit-box-  
shadow:4px 4px 4px 4px rgb(180, 105, 173);  
box-shadow:4px 4px 4px 4px rgb(180, 105,  
173) }
```

# Background

The CSS property to change the background color of an element to XYZ 31.4168, 22.8236, 42.2847 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(180, 105, 173) }
```

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

```
.background{ background-color: rgb(180,  
105, 173) }
```

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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