

# Converting Colors

XYZ(31.0978, 29.0138, 24.4873)

Have a look what the booklet for  
XYZ(31.0978, 29.0138, 24.4873)  
contains.

<b>XYZ(31.1162, 29.0826, 24.3956)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(31.1162, 29.0826,  
24.3956)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	B18A80
RGB	177, 138, 128
RGB Percent	69%, 54%, 50%
CMY	0.3059, 0.4588, 0.4980
CMYK	0.00, 0.22, 0.28, 0.31
HSL	12°, 24%, 60%
HSV	12°, 28%, 69%
XYZ	31.1162, 29.0826, 24.3956
YIQ	148.5210, 26.4540, 5.1580

# Conversions

## Conversions Part 2

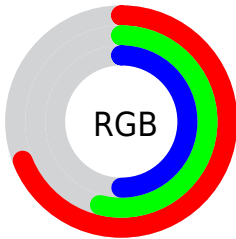
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	177, 141, 128
Decimal	11635328
CIE Lab	60.85, 13.33, 11.03
CIE LCh	61, 17.308, 39.609
Yxy	29.0826, 0.3678, 0.3438
Android (android.graphics.Color)	4289825408 (0xFFB18A80)
YUV	148.5210, -10.1169, 24.9761
Hunter-Lab	53.9283, 8.6186, 10.9287

# Details

The XYZ color **31.1162, 29.0826, 24.3956** is a light color, and the websafe version is hex **CC9999**. A complement of this color would be **30.6562, 35.3998, 46.8121**, and the grayscale version is **28.4000, 29.8790, 32.5382**.

A 20% lighter version of the original color is **60.7944, 58.3591, 51.7763**, and **13.0694, 11.7549, 8.9772** is the 20% darker color. If you saturate the color by 10%, you get **28.1598, 24.8743, 18.1550**, and if you desaturate by 10%, it is **34.5396, 33.8992, 31.7952**.

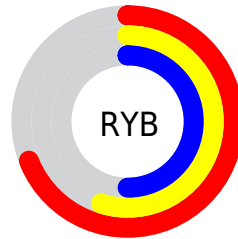
# Distribution



Red (69%)

Green (54%)

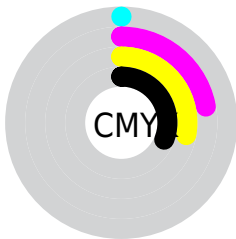
Blue (50%)



Red (69%)

Yellow (55%)

Blue (50%)

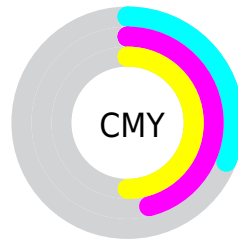


Cyan (0%)

Magenta (22%)

Yellow (28%)

Black (31%)



Cyan (31%)

Magenta (46%)


Yellow (50%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 31.1162, 29.0826, 24.3956 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 31.1162, 29.0826, 24.3956 by changing the saturation by 10% instead.





 31.1162, 29.0826,  
24.3956


 31.1162, 29.0826,  
24.3956


298.8906,  
297.6045, 288.1651

 20.8396, 19.1433,  
15.4124


 60.7976, 58.2083,  
51.6269

 13.1186, 11.7739,  
8.9595


 80.9331, 78.1635,  
70.7121

 7.5878, 6.5899,  
4.6183


 105.0856,  
102.2261, 94.0017

 3.8819, 3.2070,  
1.9703

133.6204,  
130.7806, 121.9143

 1.6356, 1.2407,  
0.5369

166.9030,  
164.2112, 154.8684

 0.4154, 0.0946,  
0.0000

205.2987,

 0.0000, 0.0000,

202.9025, 193.2826

0.0000

249.1727,  
247.2388, 237.5753

■ 31.1162, 29.0826,  
24.3956

■ 31.1162, 29.0826,  
24.3956

■ 28.1598, 24.8743,  
18.1550

■ 34.5396, 33.8992,  
31.7952

■ 25.6474, 21.2460,  
13.0127

■ 38.4468, 39.3429,  
40.4067

■ 23.5578, 18.1731,  
8.9050


■ 42.8569, 45.4366,  
50.2819


■ 21.8667, 15.6278,  
5.7612


■ 47.7870, 52.2011,  
61.4690


■ 20.5474, 13.5797,  
3.5015


■ 53.2536, 59.6560,  
74.0140

 19.5698, 11.9950,  
2.0329


 59.2721, 67.8201,  
87.9601

 18.8927, 10.8335,  
1.2131

 65.8578, 76.7116,  
103.3491

 18.7665, 10.6171,  
1.0602

 70.5837, 85.3717,  
107.3660

 71.9415, 88.0871,  
107.8185

# Harmonies

## Analogous

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



32.1378, 29.0826, 29.6396



31.1162, 29.0826, 24.3956



29.1794, 29.0826, 21.4011

# Triad

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



31.1162, 29.0826, 24.3956



23.7766, 29.0826, 27.5364



28.3717, 29.0826, 45.5434

# Complementary

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



31.1162, 29.0826, 24.3956



30.6562, 35.3998, 46.8121

# 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.



26.1599, 29.0826, 44.7789



31.1162, 29.0826, 24.3956



23.5866, 29.0826, 33.7828

# Square

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



31.1162, 29.0826, 24.3956



24.9709, 29.0826, 23.0362



24.4368, 29.0826, 40.2540



30.4974, 29.0826, 42.2197



# Rectangle

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



31.1162, 29.0826, 24.3956



27.6717, 29.0826, 20.8081



24.4368, 29.0826, 40.2540



27.6126, 29.0826, 45.7653

# Sweetspot

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



31.1170, 29.0839, 24.3962



68.5203, 69.9946, 71.6190



32.8444, 27.5832, 40.2494



14.6141, 14.8422, 14.9990



84.5950, 89.0005, 96.9216



16.2198, 17.0645, 18.5832



# Same Dimension

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



31.1170, 29.0839, 24.3962



52.5163, 47.5261, 36.8749



35.0011, 36.8523, 25.6909



8.6323, 8.7770, 8.8917



13.6330, 7.7647, 0.7802



0.4698, 0.3261, 0.0382



# Inverse Universe

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



30.6562, 35.3998, 46.8121



51.5507, 60.6445, 83.4839



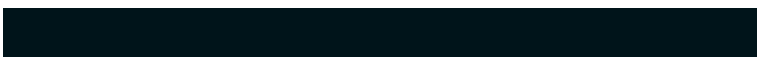
26.6157, 27.3188, 45.4653



8.5924, 9.3310, 10.8545



12.6803, 16.1611, 32.5881



0.4363, 0.5831, 1.0378



# Previews

## White Background



This preview shows how the XYZ color 31.1162, 29.0826, 24.3956 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

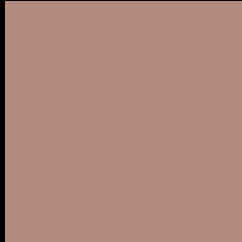
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 31.1162, 29.0826, 24.3956 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

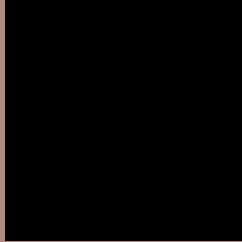
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 31.1162, 29.0826, 24.3956**

## **Background**



This preview shows how black text looks on a background with the XYZ color 31.1162, 29.0826, 24.3956.



This preview shows how white text looks on a background with the XYZ color 31.1162, 29.0826,



# 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

31.1162, 29.0826, 24.3956

### Protanopia

27.7354, 29.3057, 26.0245

### Deuteranopia

29.6522, 29.2031, 24.1526



## Tritanopia

32.4427, 28.9870, 31.0793

# Trichromacy



## Original Color

31.1162, 29.0826, 24.3956

## Protanomaly

28.9703, 29.2666, 25.5948

## Deuteranomaly

30.1502, 29.2400, 24.1335

## Tritanomaly

31.8245, 28.9374, 28.3342

# Monochromacy



## Original Color

31.1162, 29.0826, 24.3956

## Achromatopsia

28.5667, 30.0544, 32.7292

## Achromatomaly

29.2312, 29.5448, 29.3614

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 31.1162, 29.0826, 24.3956 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(177, 138, 128)` looks like.

```
.text, #text, p{  
    color:rgb(177, 138, 128)  
}
```

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(177, 138, 128) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(177, 138, 128) }
```

## Border

The CSS property to change the border of an element to XYZ 31.1162, 29.0826, 24.3956 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(177, 138, 128) }
```



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

```
.border{ border-color:rgb(177, 138, 128) }
```

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

Here you see how a box with a 4 pixel `rgb(177, 138, 128)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(177, 138, 128); -webkit-box-  
shadow:4px 4px 4px 4px rgb(177, 138, 128);  
box-shadow:4px 4px 4px 4px rgb(177, 138,  
128) }
```

# Background

The CSS property to change the background color of an element to XYZ 31.1162, 29.0826, 24.3956 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(177, 138, 128) }
```

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

```
.background{ background-color: rgb(177,  
138, 128) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor