

# Converting Colors

XYZ(31.7684, 30.9240, 23.1310)

Have a look what the booklet for  
XYZ(31.7684, 30.9240, 23.1310)  
contains.

<b>XYZ(31.8320, 31.0280, 23.0502)</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(31.8320, 31.0280,  
23.0502)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B1917B
RGB	177, 145, 123
RGB Percent	69%, 57%, 48%
CMY	0.3059, 0.4314, 0.5176
CMYK	0.00, 0.18, 0.31, 0.31
HSL	24°, 26%, 59%
HSV	24°, 31%, 69%
XYZ	31.8320, 31.0280, 23.0502
YIQ	152.0600, 26.1340, -0.0580

# Conversions

## Conversions Part 2

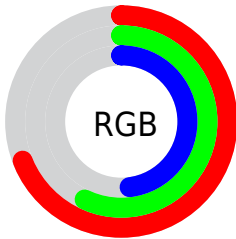
<b>Format</b>	<b>Color</b>
<b>RYB</b>	177, 160, 123
Decimal	11637115
CIELab	62.53, 8.73, 16.20
CIELCh	63, 18.403, 61.685
Yxy	31.0280, 0.3705, 0.3612
Android (android.graphics.Color)	4289827195 (0xFFB1917B)
YUV	152.0600, -14.3266, 21.8724
Hunter-Lab	55.7028, 4.5260, 14.4573

# Details

The XYZ color **31.8320, 31.0280, 23.0502** is a light color, and the websafe version is hex **CC9999**. A complement of this color would be **27.8252, 30.8269, 46.0786**, and the grayscale version is **29.9236, 31.4820, 34.2839**.

A 20% lighter version of the original color is **61.8642, 61.3051, 49.6468**, and **13.4966, 12.8898, 8.2552** is the 20% darker color. If you saturate the color by 10%, you get **29.2935, 27.5667, 17.2229**, and if you desaturate by 10%, it is **34.7204, 34.8682, 29.9832**.

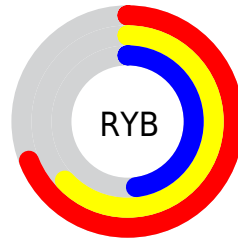
# Distribution



Red (69%)

Green (57%)

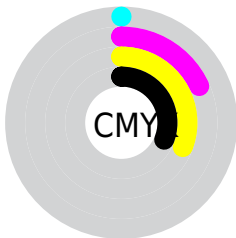
Blue (48%)



Red (69%)

Yellow (63%)

Blue (48%)

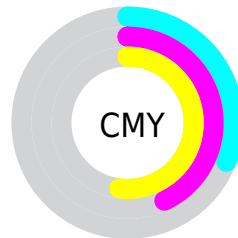


Cyan (0%)

Magenta (18%)

Yellow (31%)

Black (31%)



Cyan (31%)

Magenta (43%)


Yellow (52%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 31.8320, 31.0280, 23.0502 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 31.8320, 31.0280, 23.0502 by changing the saturation by 10% instead.





 31.8320, 31.0280,  
23.0502


 31.8320, 31.0280,  
23.0502

302.1122,  
306.6673, 281.1130


 21.3881, 20.6202,  
14.4249


 61.9146, 61.2842,  
49.4000

 13.5221, 12.8466,  
8.2747

 82.2840, 81.9013,  
67.9616

 7.8685, 7.3230,  
4.1809


 106.6927,  
106.6903, 90.6724

 4.0620, 3.6649,  
1.7251

135.5060,  
136.0355, 117.9509

 1.7373, 1.4880,  
0.3779

169.0892,  
170.3215, 150.2156

 0.4794, 0.2802,  
0.0000

207.8078,

 0.0000, 0.0000,

209.9325, 187.8852

0.0000

252.0269,  
255.2530, 231.3782

■ 31.8320, 31.0280,  
23.0502

■ 31.8320, 31.0280,  
23.0502

■ 29.2935, 27.5667,  
17.2229

■ 34.7204, 34.8682,  
29.9832

■ 27.0878, 24.4678,  
12.4412

■ 37.9702, 39.0947,  
38.0740

■ 25.1996, 21.7196,  
8.6422

■ 41.5951, 43.7200,  
47.3734

■ 23.6115, 19.3082,  
5.7550

■ 45.6076, 48.7548,  
57.9289

■ 22.3039, 17.2184,  
3.6995

■ 50.0192, 54.2093,  
69.7852

■ 21.2543, 15.4335,  
2.3809

■ 54.8413, 60.0933,  
82.9849

■ 20.4568, 13.9979,  
1.6237

■ 60.0847, 66.4163,  
97.5687

■ 64.1746, 72.5535,  
105.2296

■ 67.1632, 78.5306,  
106.2258

# Harmonies

## Analogous

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



33.7765, 31.0280, 27.0530



31.8320, 31.0280, 23.0502



29.3500, 31.0280, 21.8007

# Triad

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



31.8320, 31.0280, 23.0502



24.9398, 31.0280, 34.1908



32.0904, 31.0280, 46.9144

# Complementary

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



31.8320, 31.0280, 23.0502



27.8252, 30.8269, 46.0786

# 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.



29.6328, 31.0280, 49.5091



31.8320, 31.0280, 23.0502



25.5846, 31.0280, 41.5485

# Square

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



31.8320, 31.0280, 23.0502



25.4561, 31.0280, 27.6624



27.2680, 31.0280, 47.4204



33.9316, 31.0280, 40.7485



# Rectangle

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



31.8320, 31.0280, 23.0502



27.7494, 31.0280, 22.5323



27.2680, 31.0280, 47.4204



31.3044, 31.0280, 48.2695

# Sweetspot

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



31.8328, 31.0294, 23.0508



68.8426, 71.0968, 70.3157



31.1647, 25.8934, 34.5424



14.7280, 15.1617, 14.7538



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.



31.8328, 31.0294, 23.0508



53.7092, 51.0868, 33.6506



36.3832, 40.1303, 24.5676



8.7712, 9.0550, 8.9380



14.8783, 10.2551, 1.1953



0.5261, 0.4387, 0.0569



# Inverse Universe

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



27.8252, 30.8269, 46.0786



45.3093, 50.6521, 81.8841



23.8760, 22.9286, 44.7622



8.4465, 9.0391, 10.8059



9.4615, 9.7233, 31.5151



0.3533, 0.4171, 1.0101



# Previews

## White Background



This preview shows how the XYZ color 31.8320, 31.0280, 23.0502 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

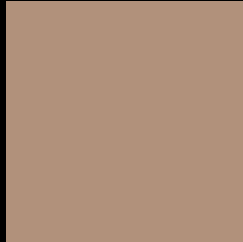
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 31.8320, 31.0280, 23.0502 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

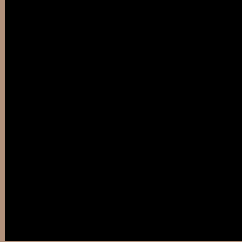
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 31.8320, 31.0280, 23.0502**

## **Background**



This preview shows how black text looks on a background with the XYZ color 31.8320, 31.0280, 23.0502.



This preview shows how white text looks on a background with the XYZ color 31.8320, 31.0280,



# 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

31.8320, 31.0280, 23.0502

### Protanopia

29.3297, 31.1132, 24.1983

### Deuteranopia

31.6050, 30.9110, 23.0395



## Tritanopia

34.0148, 31.0200, 33.9005

# Trichromacy



**Original Color**

31.8320, 31.0280, 23.0502

**Protanomaly**

30.1750, 31.0826, 23.8112

**Deuteranomaly**

31.6050, 30.9110, 23.0395

**Tritanomaly**

33.0711, 30.8528, 29.4115

# Monochromacy



**Original Color**

31.8320, 31.0280, 23.0502

**Achromatopsia**

29.8446, 31.3989, 34.1934

**Achromatomaly**

30.2531, 30.9950, 29.5874

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 31.8320, 31.0280, 23.0502 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, 145, 123)` looks like.

```
.text, #text, p{  
    color:rgb(177, 145, 123)  
}
```

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, 145, 123) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(177, 145, 123) }
```

## Border

The CSS property to change the border of an element to XYZ 31.8320, 31.0280, 23.0502 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, 145, 123) }
```



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

```
.border{ border-color:rgb(177, 145, 123) }
```

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

Here you see how a box with a 4 pixel `rgb(177, 145, 123)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(177, 145, 123); -webkit-box-  
shadow:4px 4px 4px 4px rgb(177, 145, 123);  
box-shadow:4px 4px 4px 4px rgb(177, 145,  
123) }
```

# Background

The CSS property to change the background color of an element to XYZ 31.8320, 31.0280, 23.0502 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(177, 145, 123) }
```

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

```
.background{ background-color: rgb(177,  
145, 123) }
```

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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