

# Converting Colors

XYZ(31.9372, 23.9744, 24.5885)

Have a look what the booklet for  
XYZ(31.9372, 23.9744, 24.5885)  
contains.

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# Color

**XYZ(31.9650, 23.9659,  
24.4139)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	C36C83
RGB	195, 108, 131
RGB Percent	76%, 42%, 51%
CMY	0.2353, 0.5765, 0.4863
CMYK	0.00, 0.45, 0.33, 0.24
HSL	344°, 42%, 59%
HSV	344°, 45%, 76%
XYZ	31.9650, 23.9659, 24.4139
YIQ	136.6350, 44.4690, 25.5970

# Conversions

## Conversions Part 2

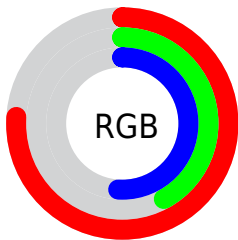
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	195, 108, 131
Decimal	12807299
CIE <sub>Lab</sub>	56.05, 37.13, 2.73
CIE <sub>LCh</sub>	56, 37.233, 4.200
Yxy	23.9659, 0.3978, 0.2983
Android (android.graphics.Color)	4290997379 (0xFFC36C83)
YUV	136.6350, -2.7781, 51.1861
Hunter-Lab	48.9550, 30.8798, 4.7005

# Details

The XYZ color **31.9650, 23.9659, 24.4139** is a dark color, and the websafe version is hex **CC6699**. A complement of this color would be **33.1470, 45.1976, 46.0091**, and the grayscale version is **23.6392, 24.8703, 27.0837**.

A 20% lighter version of the original color is **62.2696, 50.0213, 51.7205**, and **13.6336, 9.0244, 9.0060** is the 20% darker color. If you saturate the color by 10%, you get **29.2277, 19.9411, 19.0321**, and if you desaturate by 10%, it is **35.2981, 28.9668, 30.6590**.

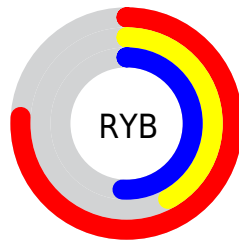
# Distribution



Red (76%)

Green (42%)

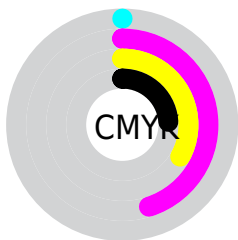
Blue (51%)



Red (76%)

Yellow (42%)

Blue (51%)

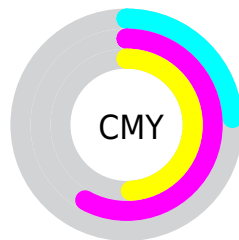


Cyan (0%)

Magenta (45%)

Yellow (33%)

Black (24%)



Cyan (24%)

Magenta (58%)


Yellow (49%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 31.9650, 23.9659, 24.4139 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 31.9650, 23.9659, 24.4139 by changing the saturation by 10% instead.





 31.9650, 23.9659,  
24.4139


 31.9650, 23.9659,  
24.4139


302.7079,  
272.6480, 288.2601


 21.4902, 15.3083,  
15.4259


 62.1218, 49.9745,  
51.6571


 13.5973, 9.0361,  
8.9689


 82.5345, 68.0944,  
70.7493

 7.9209, 4.7647,  
4.6244


 106.9905, 90.1372,  
94.0467

 4.0958, 2.1099,  
1.9737

 135.8552,  
116.4872, 121.9678

 1.7565, 0.6702,  
0.5391

169.4939,  
147.5289, 154.9312

 0.4912, 0.0000,  
0.0000

208.2720,

 0.0000, 0.0000,

183.6467, 193.3553

0.0000

252.5549,  
225.2249, 237.6587

■ 31.9650, 23.9659,  
24.4139

■ 31.9650, 23.9659,  
24.4139

■ 29.2277, 19.9411,  
19.0321

■ 35.2981, 28.9668,  
30.6590

■ 27.0479, 16.8245,  
14.4729

■ 39.2585, 34.9985,  
37.8028

■ 25.3853, 14.5452,  
10.6943


■ 43.8776, 42.1161,  
45.8802


■ 24.1934, 13.0202,  
7.6494


■ 49.1842, 50.3696,  
54.9237


■ 23.4163, 12.1489,  
5.2857


■ 55.2053, 59.8058,  
64.9645

 23.1154, 11.8460,  
4.2635

 61.9665, 70.4691,  
76.0321

 69.4919, 82.4014,  
88.1549

 74.8643, 89.7615,  
100.3799

 76.3158, 90.3421,  
108.0233

# Harmonies

## Analogous

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



30.9793, 23.9659, 37.6962



31.9650, 23.9659, 24.4139



30.2486, 23.9659, 15.0039

# Triad

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



31.9650, 23.9659, 24.4139



18.4774, 23.9659, 11.1023



19.3961, 23.9659, 53.4308

# Complementary

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



31.9650, 23.9659, 24.4139



33.1470, 45.1976, 46.0091

# 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.



16.6528, 23.9659, 41.6289



31.9650, 23.9659, 24.4139



16.1706, 23.9659, 17.1574

# Square

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



31.9650, 23.9659, 24.4139



22.1841, 23.9659, 8.9927



15.5464, 23.9659, 27.8511



23.3841, 23.9659, 57.1850



# Rectangle

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



31.9650, 23.9659, 24.4139



27.9150, 23.9659, 11.3163



15.5464, 23.9659, 27.8511



18.3149, 23.9659, 50.1247

# Sweetspot

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



31.9657, 23.9671, 24.4144



79.8508, 77.3912, 84.3515



32.1832, 23.4146, 54.4532



17.0473, 16.2676, 17.7148



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.



31.9657, 23.9671, 24.4144



52.2488, 35.5719, 33.8874



32.9717, 28.2028, 17.8947



10.1801, 10.1206, 11.0388



15.0538, 7.7113, 2.9294



0.6800, 0.3450, 0.2824



# Inverse Universe

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



31.9657, 23.9671, 24.4144



52.2488, 35.5719, 33.8874



31.3073, 37.6725, 57.2514



10.1801, 10.1206, 11.0388



15.0538, 7.7113, 2.9294



0.6800, 0.3450, 0.2824



# Previews

## White Background



This preview shows how the XYZ color 31.9650, 23.9659, 24.4139 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

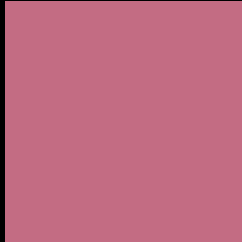
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the XYZ color 31.9650, 23.9659, 24.4139 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

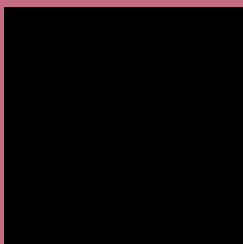
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 31.9650, 23.9659, 24.4139**

## **Background**



This preview shows how black text looks on a background with the XYZ color 31.9650, 23.9659, 24.4139.



This preview shows how white text looks on a background with the XYZ color 31.9650, 23.9659,



# 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

31.9650, 23.9659, 24.4139

### Protanopia

23.5449, 24.1938, 30.6231

### Deuteranopia

24.5759, 24.0769, 23.4307



## Tritanopia

31.0941, 23.9292, 20.1195

# Trichromacy



## Original Color

31.9650, 23.9659, 24.4139

## Protanomaly

25.8516, 23.6582, 28.4033

## Deuteranomaly

26.7922, 23.6931, 23.5832

## Tritanomaly

31.2919, 23.8367, 21.6906

# Monochromacy



## Original Color

31.9650, 23.9659, 24.4139

## Achromatopsia

23.7775, 25.0158, 27.2422

## Achromatomaly

25.9346, 23.9401, 26.1757

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 31.9650, 23.9659, 24.4139 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(195, 108, 131)` looks like.

```
.text, #text, p{  
    color:rgb(195, 108, 131)  
}
```

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(195, 108, 131) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(195, 108, 131) }
```

## Border

The CSS property to change the border of an element to XYZ 31.9650, 23.9659, 24.4139 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(195, 108, 131) }
```



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

```
.border{ border-color:rgb(195, 108, 131) }
```

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

Here you see how a box with a 4 pixel `rgb(195, 108, 131)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(195, 108, 131); -webkit-box-shadow:4px 4px 4px 4px rgb(195, 108, 131); box-shadow:4px 4px 4px 4px rgb(195, 108, 131) }
```

# Background

The CSS property to change the background color of an element to XYZ 31.9650, 23.9659, 24.4139 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(195, 108, 131) }
```

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

```
.background{ background-color: rgb(195,  
108, 131) }
```

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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