

# Converting Colors

XYZ(31.8197, 19.3409, 8.0173)

Have a look what the booklet for  
XYZ(31.8197, 19.3409, 8.0173)  
contains.

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# Color

**XYZ(31.8197, 19.3409,  
8.0173)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	D94447
RGB	217, 68, 71
RGB Percent	85%, 27%, 28%
CMY	0.1490, 0.7333, 0.7216
CMYK	0.00, 0.69, 0.67, 0.15
HSL	359°, 66%, 56%
HSV	359°, 69%, 85%
XYZ	31.8197, 19.3409, 8.0173
YIQ	112.8930, 87.8410, 32.5210

# Conversions

## Conversions Part 2

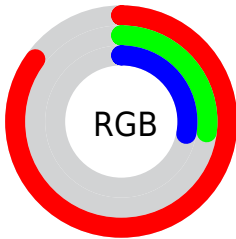
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	217, 68, 71
Decimal	14238791
CIE Lab	51.08, 58.03, 31.83
CIE LCh	51, 66.186, 28.749
Yxy	19.3409, 0.5377, 0.3268
Android (android.graphics.Color)	4292428871 (0xFFD94447)
YUV	112.8930, -20.6532, 91.3018
Hunter-Lab	43.9783, 52.1885, 19.9762

# Details

The XYZ color **31.8197, 19.3409, 8.0173** is a dark color, and the websafe version is hex **CC3333**. The color can be described as dark muted red. A complement of this color would be **39.3360, 55.7101, 72.3042**, and the grayscale version is **15.7065, 16.5244, 17.9951**.

A 20% lighter version of the original color is **51.8378, 37.0314, 22.1849**, and **13.7154, 7.0477, 1.6744** is the 20% darker color. If you saturate the color by 10%, you get **30.1743, 16.9579, 4.6707**, and if you desaturate by 10%, it is **34.1902, 22.7925, 12.7834**.

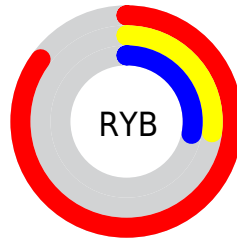
# Distribution



Red (85%)

Green (27%)

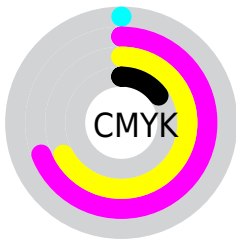
Blue (28%)



Red (85%)

Yellow (27%)

Blue (28%)

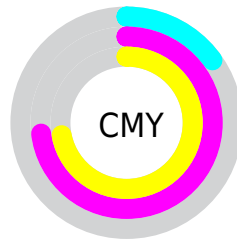


Cyan (0%)

Magenta (69%)

Yellow (67%)

Black (15%)



Cyan (15%)

Magenta (73%)


Yellow (72%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 31.8197, 19.3409, 8.0173 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 31.8197, 19.3409, 8.0173 by changing the saturation by 10% instead.





 31.8197, 19.3409,  
8.0173


 31.8197, 19.3409,  
8.0173


302.0570,  
248.3243, 185.8073


 21.3787, 11.9169,  
4.0181


 61.8954, 42.3094,  
22.5391

 13.5151, 6.6871,  
1.6353


 82.2609, 58.6226,  
33.8987


 7.8637, 3.2672,  
0.3158


 106.6652, 78.6676,  
48.5489

 4.0589, 1.2728,  
0.0000

 135.4737,  
102.8289, 66.9083

 1.7355, 0.1200,  
0.0000

 169.0518,  
131.4908, 89.3952

 0.4783, 0.0000,  
0.0000

207.7648,

 0.0000, 0.0000,

165.0378, 116.4283

0.0000

251.9781,  
203.8541, 148.4262

■ 31.8197, 19.3409,  
8.0173

■ 31.8197, 19.3409,  
8.0173

■ 30.1743, 16.9579,  
4.6707

■ 34.1902, 22.7925,  
12.7834

■ 29.1697, 15.5164,  
2.5860

■ 37.3549, 27.4144,  
19.1022


■ 28.6861, 14.8306,  
1.5576


■ 41.3763, 33.3003,  
27.0924


■ 28.6389, 14.7611,  
1.4648


■ 46.3105, 40.5333,  
36.8612

■ 52.2086, 49.1898,  
48.5066

 59.1180, 59.3401,  
62.1196

 67.0831, 71.0501,  
77.7853

 76.1456, 84.3815,  
95.5837

 82.4251, 93.4916,  
108.3092

# Harmonies

## Analogous

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



34.1116, 19.3409, 21.8578



31.8197, 19.3409, 8.0173



25.7401, 19.3409, 2.8065

# Triad

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



31.8197, 19.3409, 8.0173



9.5652, 19.3409, 7.3207



18.1088, 19.3409, 81.8235

# Complementary

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



31.8197, 19.3409, 8.0173



39.3360, 55.7101, 72.3042

# 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.



12.5811, 19.3409, 69.5511



31.8197, 19.3409, 8.0173



8.4304, 19.3409, 20.2798

# Square

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



31.8197, 19.3409, 8.0173



12.9553, 19.3409, 2.6056



9.3881, 19.3409, 43.6725



25.1475, 19.3409, 71.3156



# Rectangle

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



31.8197, 19.3409, 8.0173



20.9574, 19.3409, 1.7788



9.3881, 19.3409, 43.6725



16.0285, 19.3409, 80.1395

# Sweetspot

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



31.8201, 19.3420, 8.0176



72.9546, 67.5326, 65.3934



41.7529, 23.1471, 67.9124



15.0993, 13.6974, 12.9784



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.



31.8201, 19.3420, 8.0176



42.7909, 23.4373, 5.2971



38.6812, 33.2139, 9.8427



13.0666, 13.0557, 13.6119



17.3412, 8.9375, 0.9111



1.1273, 0.5805, 0.0791



# Inverse Universe

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



31.8201, 19.3420, 8.0176



42.7909, 23.4373, 5.2971



25.4160, 27.2533, 69.5660



13.0666, 13.0557, 13.6119



17.3412, 8.9375, 0.9111



1.1273, 0.5805, 0.0791



# Previews

## White Background



This preview shows how the XYZ color 31.8197, 19.3409, 8.0173 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 31.8197, 19.3409, 8.0173 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 31.8197, 19.3409, 8.0173**

## **Background**



This preview shows how black text looks on a background with the XYZ color 31.8197, 19.3409, 8.0173.



This preview shows how white text looks on a background with the XYZ color 31.8197, 19.3409,



# 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

31.8197, 19.3409, 8.0173

### Protanopia

18.2514, 19.5171, 12.9304

### Deuteranopia

19.7203, 19.3337, 7.3950



## Tritanopia

31.8197, 19.3409, 8.0173

# Trichromacy



## Original Color

31.8197, 19.3409, 8.0173

## Protanomaly

21.2519, 17.8242, 10.7078

## Deuteranomaly

22.9008, 18.3157, 7.4825

## Tritanomaly

31.8197, 19.3409, 8.0173

# Monochromacy



## Original Color

31.8197, 19.3409, 8.0173

## Achromatopsia

15.6958, 16.5132, 17.9829

## Achromatomaly

19.2418, 16.0105, 13.6315

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 31.8197, 19.3409, 8.0173 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(217, 68, 71)` looks like.

```
.text, #text, p{  
    color:rgb(217, 68, 71)  
}
```

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(217, 68, 71) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(217, 68, 71) }
```

## Border

The CSS property to change the border of an element to XYZ 31.8197, 19.3409, 8.0173 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(217, 68, 71) }
```



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

```
.border{ border-color:rgb(217, 68, 71) }
```

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

Here you see how a box with a 4 pixel `rgb(217, 68, 71)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(217, 68, 71); -webkit-box-  
shadow:4px 4px 4px 4px rgb(217, 68, 71);  
box-shadow:4px 4px 4px 4px rgb(217, 68,  
71) }
```

# Background

The CSS property to change the background color of an element to XYZ 31.8197, 19.3409, 8.0173 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(217, 68, 71) }
```

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

```
.background{ background-color: rgb(217, 68,  
71) }
```

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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