

# Converting Colors

XYZ(31.8372, 16.7945, 1.5565)

Have a look what the booklet for  
XYZ(31.8372, 16.7945, 1.5565)  
contains.

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# Color

**XYZ(31.9287, 16.8312,  
1.5659)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	E31400
RGB	227, 20, 0
RGB Percent	89%, 8%, 0%
CMY	0.1098, 0.9214, 1.0000
CMYK	0.00, 0.91, 1.00, 0.11
HSL	5°, 100%, 45%
HSV	5°, 100%, 89%
XYZ	31.9287, 16.8312, 1.5659
YIQ	79.6130, 129.7920, 37.6640

# Conversions

## Conversions Part 2

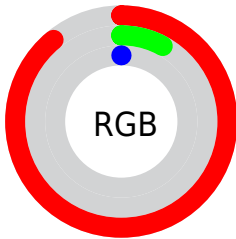
Format	Color
<a href="#">RYB</a>	<a href="#">227, 22, 0</a>
Decimal	<a href="#">14881792</a>
CIELab	<a href="#">48.05, 71.51, 61.79</a>
CIElCh	<a href="#">48, 94.509, 40.827</a>
Yxy	<a href="#">16.8312, 0.6344, 0.3344</a>
Android (android.graphics.Color)	<a href="#">4293071872 (0xFFE31400)</a>
YUV	<a href="#">79.6130, -39.2492, 129.2584</a>
Hunter-Lab	<a href="#">41.0258, 67.1239, 26.4551</a>

# Details

The XYZ color **31.9287, 16.8312, 1.5659** is a dark color, and the websafe version is hex **CC0000**. The color can be described as dark washed red. A complement of this color would be **36.1695, 50.1550, 80.4470**, and the grayscale version is **7.6093, 8.0056, 8.7181**.

A 20% lighter version of the original color is **46.0460, 29.7299, 7.0529**, and **14.6979, 7.5771, 0.6879** is the 20% darker color. If you saturate the color by 10%, you get **31.9290, 16.8323, 1.5661**, and if you desaturate by 10%, it is **32.6136, 17.9587, 2.5424**.

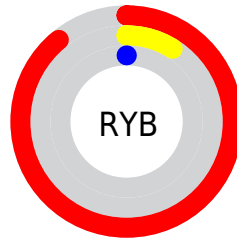
# Distribution



Red (89%)

Green (8%)

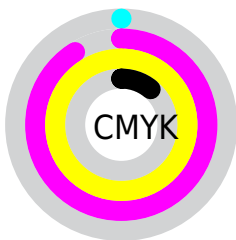
Blue (0%)



Red (89%)

Yellow (9%)

Blue (0%)

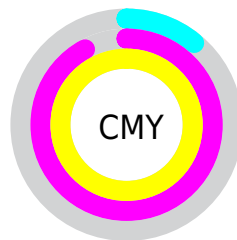


Cyan (0%)

Magenta (91%)

Yellow (100%)

Black (11%)



Cyan (11%)

Magenta (92%)


Yellow (100%)


# Brightness & Saturation Gradients


These gradients show how the XYZ color 31.9287, 16.8312, 1.5659 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 31.9287, 16.8312, 1.5659 by changing the saturation by 10% instead.




 31.9287, 16.8312,  
1.5659


 31.9287, 16.8312,  
1.5659


 302.5454,  
234.1978, 115.2236


 21.4623, 10.1142,  
0.2663


 62.0652, 38.0353,  
7.8159


 13.5767, 5.4748,  
0.0000


 82.4661, 53.2912,  
13.7583

 7.9066, 2.5284,  
0.0000


 106.9092, 72.1623,  
22.1369

 4.0865, 0.8908,  
0.0000

 135.7599, 95.0328,  
33.3704

 1.7512, 0.0000,  
0.0000

 169.3835,  
122.2872, 47.8773


 0.4880, 0.0000,  
0.0000


 208.1454,


 0.0000, 0.0000,


154.3099, 66.0761


0.0000


 252.4109,  
191.4853, 88.3853


 31.9287, 16.8312,  
1.5659


 31.9287, 16.8312,  
1.5659


 31.9290, 16.8323,  
1.5661

 32.6136, 17.9587,  
2.5424

 33.8513, 19.9066,  
4.5814

 35.7514, 22.8026,  
8.0020

 38.3904, 26.7475,  
12.9918

 41.8344, 31.8288,  
19.7095

■ 46.1421, 38.1253,  
28.2942

■ 51.3665, 45.7083,  
38.8707

■ 57.5566, 54.6439,  
51.5533

■ 64.7578, 64.9935,  
66.4474

# Harmonies

## Analogous

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



38.1698, 16.8312, 10.8321



31.9287, 16.8312, 1.5659



22.0229, 16.8312, 0.0000

# Triad

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



31.9287, 16.8312, 1.5659



4.9560, 16.8312, 6.8095



19.2867, 16.8312, 114.2816

# Complementary

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



31.9287, 16.8312, 1.5659



36.1695, 50.1550, 80.4470

# 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.



11.1855, 16.8312, 108.3816



31.9287, 16.8312, 1.5659



4.6780, 16.8312, 28.6628

# Square

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



31.9287, 16.8312, 1.5659



7.4807, 16.8312, 0.7918



6.5076, 16.8312, 69.5142



29.3229, 16.8312, 81.9687



# Rectangle

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



31.9287, 16.8312, 1.5659



15.7615, 16.8312, 0.0000



6.5076, 16.8312, 69.5142



16.2359, 16.8312, 117.1262

# Sweetspot

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



31.9291, 16.8323, 1.5661



66.7278, 59.2977, 50.3118



43.0736, 20.8889, 61.4895



13.6348, 11.7536, 9.4531



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.



31.9291, 16.8323, 1.5661



41.5367, 21.8533, 2.0289



39.9861, 32.9465, 4.2518



14.4787, 14.5714, 14.9539



18.6567, 9.8876, 0.9252



1.4141, 0.8015, 0.0802



# Inverse Universe

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



36.1695, 50.1550, 80.4470



47.0462, 65.2124, 104.7154



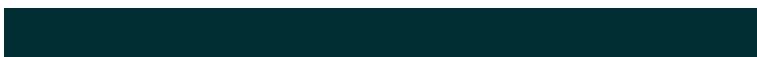
17.9198, 13.6556, 74.3637



14.6930, 16.1074, 18.4790



21.1384, 29.3390, 46.9320



1.5941, 2.2322, 3.4788



# Previews

## White Background



This preview shows how the XYZ color 31.9287, 16.8312, 1.5659 looks on a white 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



# Black Background



This preview shows how the XYZ color 31.9287, 16.8312, 1.5659 looks on a black 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

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

**XYZ 31.9287, 16.8312, 1.5659**

## **Background**



This preview shows how black text looks on a background with the XYZ color 31.9287, 16.8312, 1.5659.



This preview shows how white text looks on a background with the XYZ color 31.9287, 16.8312,

1.5659.

# 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

31.9287, 16.8312, 1.5659

### Protanopia

15.6731, 17.3253, 3.6805

### Deuteranopia

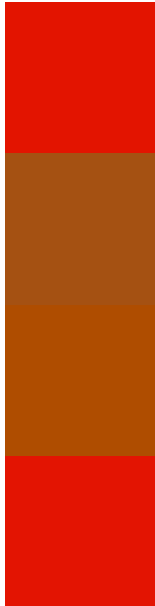
17.2530, 17.1716, 2.4051



## Tritanopia

31.9451, 16.8378, 1.6525

# Trichromacy



## Original Color

31.9287, 16.8312, 1.5659

## Protanomaly

18.5687, 13.9279, 2.2819

## Deuteranomaly

20.3331, 14.4217, 1.7120

## Tritanomaly

31.9397, 16.8356, 1.6236

# Monochromacy



## Original Color

31.9287, 16.8312, 1.5659

## Achromatopsia

7.6249, 8.0220, 8.7359

## Achromatomaly

11.7835, 8.2517, 4.1036

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 31.9287, 16.8312, 1.5659 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(227, 20, 0)` looks like.

```
.text, #text, p{  
    color:rgb(227, 20, 0)  
}
```

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(227, 20, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(227, 20, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 31.9287, 16.8312, 1.5659 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(227, 20, 0) }
```



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

```
.border{ border-color:rgb(227, 20, 0) }
```

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

Here you see how a box with a 4 pixel rgb(227, 20, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(227, 20, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(227, 20, 0);  
box-shadow:4px 4px 4px 4px rgb(227, 20, 0)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 31.9287, 16.8312, 1.5659 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(227, 20, 0) }
```

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

```
.background{ background-color: rgb(227, 20,  
0) }
```

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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