

Converting Colors

XYZ(31.9981, 16.4956, 1.4985)

Have a look what the booklet for
XYZ(31.9981, 16.4956, 1.4985)
contains.

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Color

**XYZ(31.9949, 16.4940,
1.4973)**

Conversions

Conversions Part 1

Format	Color
Hex	E40000
RGB	228, 0, 0
RGB Percent	89%, 0%, 0%
CMY	0.1059, 0.9998, 1.0000
CMYK	0.00, 1.00, 1.00, 0.11
HSL	0°, 100%, 45%
HSV	0°, 100%, 89%
XYZ	31.9949, 16.4940, 1.4973
YIQ	68.1720, 135.8880, 48.3360

Conversions

Conversions Part 2

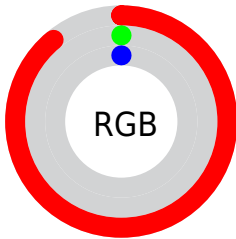
Format	Color
RYB	228, 0, 0
Decimal	14942208
CIELab	47.62, 73.61, 61.77
CIElCh	48, 96.091, 40.000
Yxy	16.4940, 0.6401, 0.3300
Android (android.graphics.Color)	4293132288 (0xFFE40000)
YUV	68.1720, -33.6088, 140.1692
Hunter-Lab	40.6128, 69.5505, 26.2431

Details

The XYZ color **31.9949, 16.4940, 1.4973** 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 **41.7310, 61.0564, 82.9838**, and the grayscale version is **5.5643, 5.8541, 6.3751**.

A 20% lighter version of the original color is **45.5858, 28.8482, 6.7800**, and **14.9003, 7.6814, 0.6973** is the 20% darker color. If you saturate the color by 10%, you get **31.9952, 16.4951, 1.4975**, and if you desaturate by 10%, it is **32.4507, 17.1618, 2.4024**.

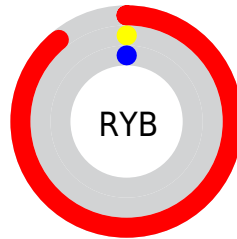
Distribution



Red (89%)

Green (0%)

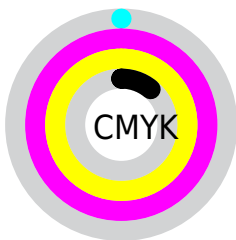
Blue (0%)



Red (89%)

Yellow (0%)

Blue (0%)

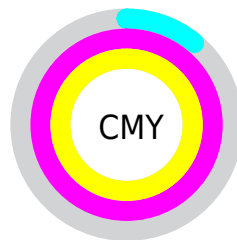


Cyan (0%)

Magenta (100%)

Yellow (100%)

Black (11%)



Cyan (11%)


Magenta (100%)


Yellow (100%)


Brightness & Saturation Gradients


These gradients show how the XYZ color 31.9949, 16.4940, 1.4973 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 31.9949, 16.4940, 1.4973 by changing the saturation by 10% instead.

 31.9949, 16.4940,
1.4973


 31.9949, 16.4940,
1.4973


 302.8417,
232.2393, 114.0052


 21.5131, 9.8744,
0.2159


 62.1683, 37.4537,
7.6143


 13.6142, 5.3158,
0.0000


 82.5907, 52.5626,
13.4639

 7.9327, 2.4337,
0.0000


 107.0574, 71.2700,
21.7323

 4.1034, 0.8431,
0.0000

 135.9336, 93.9604,
32.8381

 1.7608, 0.0000,
0.0000

 169.5848,
121.0182, 47.1997


 0.4939, 0.0000,
0.0000


 208.3763,


 0.0000, 0.0000,


152.8276, 65.2358


0.0000


 252.6735,
189.7732, 87.3648


 31.9949, 16.4940,
1.4973


 31.9949, 16.4940,
1.4973


 31.9952, 16.4951,
1.4975

 32.4507, 17.1618,
2.4024

 33.4431, 18.6143,
4.3739

 35.1441, 21.1037,
7.7541

 37.6527, 24.7748,
12.7402

 41.0523, 29.7497,
19.4980

■ 45.4160, 36.1350,
28.1726

■ 50.8092, 44.0267,
38.8943

■ 57.2916, 53.5121,
51.7819

■ 64.9185, 64.6720,
66.9451

Harmonies

Analogous

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



38.1538, 16.4940, 10.9462



31.9949, 16.4940, 1.4973



22.0165, 16.4940, 0.0000

Triad

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



31.9949, 16.4940, 1.4973



4.7298, 16.4940, 6.1697



18.7168, 16.4940, 116.0825

Complementary

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



31.9949, 16.4940, 1.4973



41.7310, 61.0564, 82.9838

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.



10.6888, 16.4940, 108.8496



31.9949, 16.4940, 1.4973



4.4032, 16.4940, 27.4662

Square

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



31.9949, 16.4940, 1.4973



7.2902, 16.4940, 0.5933



6.1377, 16.4940, 68.5932



28.8367, 16.4940, 83.8119

Rectangle

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



31.9949, 16.4940, 1.4973



15.6769, 16.4940, 0.0000



6.1377, 16.4940, 68.5932



15.6772, 16.4940, 118.5888

Sweetspot

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



31.9952, 16.4951, 1.4975



65.3501, 56.5422, 49.8526



45.9981, 22.0952, 75.2386



13.3229, 11.1298, 9.3491



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.



31.9952, 16.4951, 1.4975



41.2407, 21.2614, 1.9302



38.0119, 28.5284, 3.5031



14.3773, 14.3686, 14.9201



18.4755, 9.5252, 0.8648



1.3654, 0.7041, 0.0639

Inverse Universe

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



41.7310, 61.0564, 82.9838



53.7897, 78.6995, 106.9632



20.0207, 17.6359, 75.7470



14.8072, 16.3358, 18.5170



24.0974, 35.2568, 47.9184



1.7808, 2.6056, 3.5410

Previews

White Background



This preview shows how the XYZ color 31.9949, 16.4940, 1.4973 looks on a white background.

Color Contrast Check

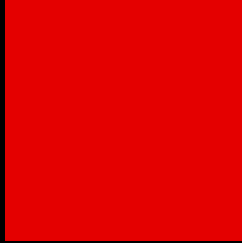
Large Text (above 18pt) WCAG AA ✓ Pass

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 31.9949, 16.4940, 1.4973 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 31.9949, 16.4940, 1.4973

Background



This preview shows how black text looks on a background with the XYZ color 31.9949, 16.4940, 1.4973.



This preview shows how white text looks on a background with the XYZ color 31.9949, 16.4940,

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

31.9949, 16.4940, 1.4973

Protanopia

15.4183, 17.0223, 3.7013

Deuteranopia

17.1457, 16.9570, 2.3694



Tritanopia

31.6322, 16.7051, 1.5572

Trichromacy



Original Color

31.9949, 16.4940, 1.4973

Protanomaly

18.0171, 12.8114, 2.1393

Deuteranomaly

19.8073, 13.3702, 1.5367

Tritanomaly

31.8225, 16.6187, 1.5305

Monochromacy



Original Color

31.9949, 16.4940, 1.4973

Achromatopsia

5.4944, 5.7805, 6.2950

Achromatomaly

9.9041, 6.3378, 2.9868

CSS Examples

Text

The CSS property to change the color of the text to XYZ 31.9949, 16.4940, 1.4973 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(228, 0, 0)` looks like.

```
.text, #text, p{  
    color:rgb(228, 0, 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(228, 0, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(228, 0, 0) }
```

Border

The CSS property to change the border of an element to XYZ 31.9949, 16.4940, 1.4973 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(228, 0, 0) }
```


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

```
.border{ border-color:rgb(228, 0, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(228, 0, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(228, 0, 0); -webkit-box-shadow:4px  
4px 4px 4px rgb(228, 0, 0); box-shadow:4px  
4px 4px 4px rgb(228, 0, 0) }
```

Background

The CSS property to change the background color of an element to XYZ 31.9949, 16.4940, 1.4973 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(228, 0, 0) }
```

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

```
.background{ background-color: rgb(228, 0,  
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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