

Converting Colors

XYZ(31.0039, 15.2648, 0.4403)

Have a look what the booklet for
XYZ(31.0039, 15.2648, 0.4403)
contains.

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Color

**XYZ(31.6786, 16.3309,
1.4825)**

Conversions

Conversions Part 1

Format	Color
Hex	E30000
RGB	227, 0, 0
RGB Percent	89%, 0%, 0%
CMY	0.1098, 0.9998, 1.0000
CMYK	0.00, 1.00, 1.00, 0.11
HSL	0°, 100%, 45%
HSV	0°, 100%, 89%
XYZ	31.6786, 16.3309, 1.4825
YIQ	67.8730, 135.2920, 48.1240

Conversions

Conversions Part 2

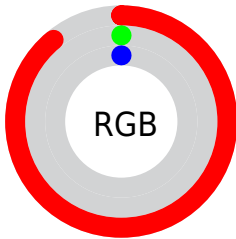
Format	Color
R_{YB}	227, 0, 0
Decimal	14876672
CIE Lab	47.41, 73.37, 61.56
CIE LCh	47, 95.774, 40.000
Yxy	16.3309, 0.6401, 0.3300
Android (android.graphics.Color)	4293066752 (0xFFE30000)
YUV	67.8730, -33.4614, 139.5544
Hunter-Lab	40.4115, 69.2061, 26.1130

Details

The XYZ color **31.6786, 16.3309, 1.4825** 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 **41.3193, 60.4545, 82.1637**, and the grayscale version is **5.5156, 5.8028, 6.3193**.

A 20% lighter version of the original color is **45.5858, 28.8482, 6.7800**, and **14.6979, 7.5771, 0.6879** is the 20% darker color. If you saturate the color by 10%, you get **31.6789, 16.3320, 1.4827**, and if you desaturate by 10%, it is **32.1314, 16.9943, 2.3816**.

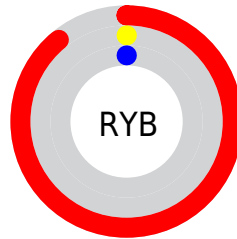
Distribution



Red (89%)

Green (0%)

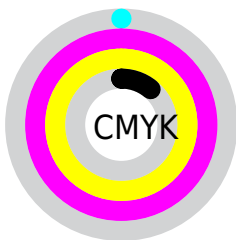
Blue (0%)



Red (89%)

Yellow (0%)

Blue (0%)

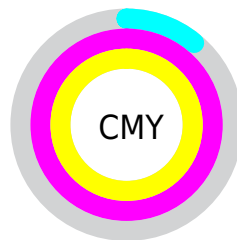


Cyan (0%)

Magenta (100%)

Yellow (100%)

Black (11%)



Cyan (11%)


Magenta (100%)


Yellow (100%)


Brightness & Saturation Gradients

These gradients show how the XYZ color 31.6786, 16.3309, 1.4825 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 31.6786, 16.3309, 1.4825 by changing the saturation by 10% instead.

 31.6786, 16.3309,
1.4825


 31.6786, 16.3309,
1.4825


 301.4239,
231.2864, 113.7387


 21.2705, 9.7586,
0.2048


 61.6755, 37.1717,
7.5705


 13.4354, 5.2392,
0.0000


 81.9950, 52.2090,
13.3998


 7.8081, 2.3883,
0.0000


 106.3490, 70.8368,
21.6441

 4.0232, 0.8199,
0.0000

 135.1028, 93.4394,
32.7219

 1.7153, 0.0000,
0.0000

 168.6219,
120.4013, 47.0517


 0.4658, 0.0000,
0.0000


 207.2715,


 0.0000, 0.0000,


152.1069, 65.0521


0.0000


 251.4171,
188.9404, 87.1416


 31.6786, 16.3309,
1.4825


 31.6786, 16.3309,
1.4825


 31.6789, 16.3320,
1.4827

 32.1314, 16.9943,
2.3816

 33.1151, 18.4341,
4.3360

 34.8002, 20.9003,
7.6848

 37.2848, 24.5361,
12.6231

 40.6513, 29.4624,
19.3149

■ 44.9718, 35.7847,
27.9039

■ 50.3113, 43.5978,
38.5187

■ 56.7287, 52.9881,
51.2771

■ 64.2788, 64.0356,
66.2875

Harmonies

Analogous

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



37.7766, 16.3309, 10.8380



31.6786, 16.3309, 1.4825



21.7988, 16.3309, 0.0000

Triad

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



31.6786, 16.3309, 1.4825



4.6831, 16.3309, 6.1086



18.5317, 16.3309, 114.9350

Complementary

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



31.6786, 16.3309, 1.4825



41.3193, 60.4545, 82.1637

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.



10.5831, 16.3309, 107.7734



31.6786, 16.3309, 1.4825



4.3597, 16.3309, 27.1944

Square

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



31.6786, 16.3309, 1.4825



7.2181, 16.3309, 0.5850



6.0769, 16.3309, 67.9148



28.5515, 16.3309, 82.9836

Rectangle

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



31.6786, 16.3309, 1.4825



15.5220, 16.3309, 0.0000



6.0769, 16.3309, 67.9148



15.5221, 16.3309, 117.4164

Sweetspot

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



31.6789, 16.3320, 1.4827



65.3499, 56.5418, 49.8525



45.5434, 21.8768, 74.4948



13.3229, 11.1297, 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.



31.6789, 16.3320, 1.4827



41.2407, 21.2613, 1.9302



37.6394, 28.2529, 3.4695



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.



41.3193, 60.4545, 82.1637



53.7908, 78.7015, 106.9636



19.8261, 17.4681, 74.9993



14.8072, 16.3358, 18.5170



24.0978, 35.2577, 47.9185



1.7808, 2.6056, 3.5410

Previews

White Background



This preview shows how the XYZ color 31.6786, 16.3309, 1.4825 looks on a white background.

Color Contrast Check

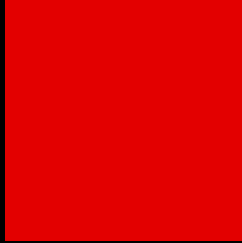
Large Text (above 18pt) WCAG AA ✓ Pass

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 31.6786, 16.3309, 1.4825 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 31.6786, 16.3309, 1.4825

Background



This preview shows how black text looks on a background with the XYZ color 31.6786, 16.3309, 1.4825.



This preview shows how white text looks on a background with the XYZ color 31.6786, 16.3309,

1.4825.

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

31.6786, 16.3309, 1.4825

Protanopia

15.4058, 17.0173, 3.6351

Deuteranopia

16.9702, 16.8666, 2.3611



Tritanopia

31.3195, 16.5439, 1.5426

Trichromacy



Original Color

31.6786, 16.3309, 1.4825

Protanomaly

18.0088, 12.8081, 2.0953

Deuteranomaly

19.5837, 13.2549, 1.5263

Tritanomaly

31.5080, 16.4566, 1.5158

Monochromacy



Original Color

31.6786, 16.3309, 1.4825

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 31.6786, 16.3309, 1.4825 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, 0, 0)` looks like.

```
.text, #text, p{  
    color:rgb(227, 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(227, 0, 0) colored shadow looks like.

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

Border

The CSS property to change the border of an element to XYZ 31.6786, 16.3309, 1.4825 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, 0, 0) }
```


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

```
.border{ border-color:rgb(227, 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(227, 0, 0)` colored shadow looks like.

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

Background

The CSS property to change the background color of an element to XYZ 31.6786, 16.3309, 1.4825 is called "background". The background property can be set on classes, ids or directly on the HTML element.

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

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

```
.background{ background-color: rgb(227, 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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