

Converting Colors

XYZ(31.7837, 16.3711, 2.1187)

Have a look what the booklet for
XYZ(31.7837, 16.3711, 2.1187)
contains.

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Color

**XYZ(31.7961, 16.3779,
2.1015)**

Conversions

Conversions Part 1

Format	Color
Hex	E30013
RGB	227, 0, 19
RGB Percent	89%, 0%, 7%
CMY	0.1098, 0.9998, 0.9255
CMYK	0.00, 1.00, 0.92, 0.11
HSL	355°, 100%, 45%
HSV	355°, 100%, 89%
XYZ	31.7961, 16.3779, 2.1015
YIQ	70.0390, 129.1930, 54.0330

Conversions

Conversions Part 2

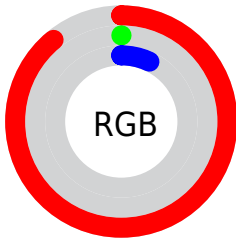
Format	Color
R_YB	227, 0, 19
Decimal	14876691
CIE Lab	47.47, 73.53, 55.78
CIE LCh	47, 92.294, 37.181
Yxy	16.3779, 0.6324, 0.3258
Android (android.graphics.Color)	4293066771 (0xFFE30013)
YUV	70.0390, -25.1622, 137.6548
Hunter-Lab	40.4696, 69.4217, 25.2499

Details

The XYZ color **31.7961, 16.3779, 2.1015** 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 **38.8612, 59.4948, 69.1438**, and the grayscale version is **5.8584, 6.1634, 6.7120**.

A 20% lighter version of the original color is **45.9093, 28.9776, 8.4837**, and **14.6979, 7.5771, 0.6879** is the 20% darker color. If you saturate the color by 10%, you get **31.7954, 16.3776, 2.0993**, and if you desaturate by 10%, it is **32.3595, 17.0857, 3.5825**.

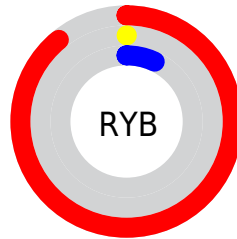
Distribution



Red (89%)

Green (0%)

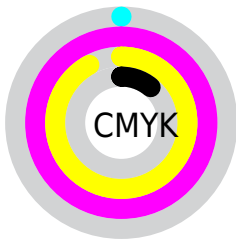
Blue (7%)



Red (89%)

Yellow (0%)

Blue (7%)

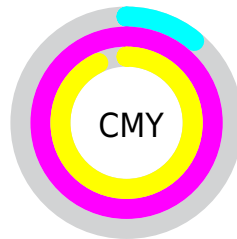


Cyan (0%)

Magenta (100%)

Yellow (92%)

Black (11%)



Cyan (11%)


Magenta (100%)


Yellow (93%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 31.7961, 16.3779, 2.1015 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 31.7961, 16.3779, 2.1015 by changing the saturation by 10% instead.


 31.7961, 16.3779,
2.1015


 31.7961, 16.3779,
2.1015


301.9512,
231.5614, 123.9335


 21.3606, 9.7920,
0.6167


 61.8587, 37.2530,
9.3165


 13.5018, 5.2612,
0.0000


 82.2164, 52.3110,
15.9238


 7.8544, 2.4013,
0.0000


 106.6123, 70.9618,
25.0891

 4.0529, 0.8266,
0.0000

 135.4117, 93.5897,
37.2308

 1.7321, 0.0000,
0.0000

 168.9799,
120.5793, 52.7676


 0.4762, 0.0000,
0.0000


 207.6823,


 0.0000, 0.0000,


152.3148, 72.1179


0.0000


 251.8843,
189.1807, 95.7004

 31.7961, 16.3779,
2.1015


 31.7961, 16.3779,
2.1015


 31.7954, 16.3776,
2.0993

 32.3595, 17.0857,
3.5825

 33.4659, 18.5751,
6.1815

 35.2556, 21.0840,
10.0779

 37.8161, 24.7516,
15.4120

 41.2221, 29.6956,
22.3061

■ 45.5392, 36.0190,
30.8694

■ 50.8267, 43.8143,
41.2011

■ 57.1387, 53.1662,
53.3929

■ 64.5255, 64.1527,
67.5298

Harmonies

Analogous

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



37.0150, 16.3779, 12.7658



31.7961, 16.3779, 2.1015



22.5113, 16.3779, 0.0000

Triad

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



31.7961, 16.3779, 2.1015



5.0922, 16.3779, 5.4334



17.6206, 16.3779, 110.5157

Complementary

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



31.7961, 16.3779, 2.1015



38.8612, 59.4948, 69.1438

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.



10.2211, 16.3779, 100.1381



31.7961, 16.3779, 2.1015



4.5834, 16.3779, 24.0893

Square

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



31.7961, 16.3779, 2.1015



7.8544, 16.3779, 0.5807



6.0857, 16.3779, 61.3641



27.1618, 16.3779, 83.3533

Rectangle

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



31.7961, 16.3779, 2.1015



16.3544, 16.3779, 0.0000



6.0857, 16.3779, 61.3641



14.8047, 16.3779, 111.5289

Sweetspot

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



31.7964, 16.3790, 2.1017



66.0051, 56.7981, 53.3205



38.8511, 18.4276, 74.1817



13.4712, 11.1877, 10.1340



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.



31.7964, 16.3790, 2.1017



41.3781, 21.3152, 2.6570



35.4053, 23.7844, 2.7263



14.4256, 14.3874, 15.1756



18.5606, 9.5584, 1.3150



1.3886, 0.7131, 0.1867

Inverse Universe

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



31.7964, 16.3790, 2.1017



41.3781, 21.3152, 2.6570



22.7010, 23.2170, 75.9573



14.4256, 14.3874, 15.1756



18.5606, 9.5584, 1.3150



1.3886, 0.7131, 0.1867

Previews

White Background



This preview shows how the XYZ color 31.7961, 16.3779, 2.1015 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 31.7961, 16.3779, 2.1015 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 31.7961, 16.3779, 2.1015

Background



This preview shows how black text looks on a background with the XYZ color 31.7961, 16.3779, 2.1015.



This preview shows how white text looks on a background with the XYZ color 31.7961, 16.3779,

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

31.7961, 16.3779, 2.1015

Protanopia

15.3990, 16.9971, 4.3886

Deuteranopia

16.9702, 16.8666, 2.3611



Tritanopia

31.3195, 16.5439, 1.5426

Trichromacy



Original Color

31.7961, 16.3779, 2.1015

Protanomaly

17.9531, 12.7619, 2.8836

Deuteranomaly

19.6220, 13.2703, 1.7282

Tritanomaly

31.5463, 16.4719, 1.7177

Monochromacy



Original Color

31.7961, 16.3779, 2.1015

Achromatopsia

5.8214, 6.1246, 6.6697

Achromatomaly

10.2883, 6.6278, 3.8690

CSS Examples

Text

The CSS property to change the color of the text to XYZ 31.7961, 16.3779, 2.1015 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, 19)` looks like.

```
.text, #text, p{  
    color:rgb(227, 0, 19)  
}
```

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, 19) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(227, 0, 19) }
```

Border

The CSS property to change the border of an element to XYZ 31.7961, 16.3779, 2.1015 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, 19) }
```


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

```
.border{ border-color:rgb(227, 0, 19) }
```

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, 19)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(227, 0, 19); -webkit-box-  
shadow:4px 4px 4px 4px rgb(227, 0, 19);  
box-shadow:4px 4px 4px 4px rgb(227, 0, 19)  
}
```

Background

The CSS property to change the background color of an element to XYZ 31.7961, 16.3779, 2.1015 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, 19) }
```

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

```
.background{ background-color: rgb(227, 0,  
19) }
```

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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