

Converting Colors

XYZ(31.8176, 16.3847, 2.2968)

Have a look what the booklet for
XYZ(31.8176, 16.3847, 2.2968)
contains.

XYZ(31.8332, 16.3928, 2.2969)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	28
<i>CSS Examples</i>	31

Color

**XYZ(31.8332, 16.3928,
2.2969)**

Conversions

Conversions Part 1

Format	Color
Hex	E30017
RGB	227, 0, 23
RGB Percent	89%, 0%, 9%
CMY	0.1098, 0.9998, 0.9098
CMYK	0.00, 1.00, 0.90, 0.11
HSL	354°, 100%, 45%
HSV	354°, 100%, 89%
XYZ	31.8332, 16.3928, 2.2969
YIQ	70.4950, 127.9090, 55.2770

Conversions

Conversions Part 2

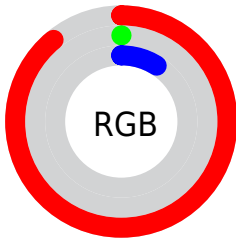
Format	Color
R_{YB}	227, 0, 23
Decimal	14876695
CIE Lab	47.49, 73.58, 54.20
CIE LCh	47, 91.389, 36.372
Yxy	16.3928, 0.6301, 0.3245
Android (android.graphics.Color)	4293066775 (0xFFE30017)
YUV	70.4950, -23.4150, 137.2549
Hunter-Lab	40.4880, 69.4893, 24.9781

Details

The XYZ color **31.8332, 16.3928, 2.2969** 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 **38.3755, 59.3004, 66.5860**, and the grayscale version is **5.9324, 6.2414, 6.7968**.

A 20% lighter version of the original color is **46.1184, 29.1971, 9.1661**, and **14.6979, 7.5771, 0.6879** is the 20% darker color. If you saturate the color by 10%, you get **31.8324, 16.3924, 2.2942**, and if you desaturate by 10%, it is **32.4234, 17.1114, 3.9186**.

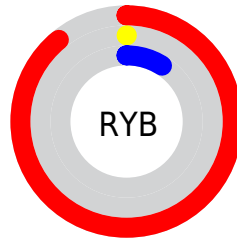
Distribution



Red (89%)

Green (0%)

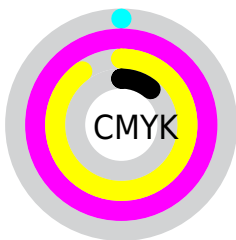
Blue (9%)



Red (89%)

Yellow (0%)

Blue (9%)

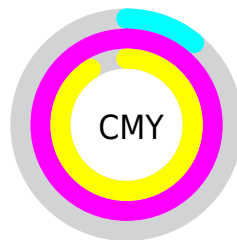


Cyan (0%)

Magenta (100%)

Yellow (90%)

Black (11%)



Cyan (11%)


Magenta (100%)


Yellow (91%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 31.8332, 16.3928, 2.2969 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 31.8332, 16.3928, 2.2969 by changing the saturation by 10% instead.


 31.8332, 16.3928,
2.2969


 31.8332, 16.3928,
2.2969


302.1175,
231.6485, 126.8289


 21.3891, 9.8025,
0.7295


 61.9165, 37.2788,
9.8377


 13.5228, 5.2682,
0.0000


 82.2863, 52.3433,
16.6667

 7.8690, 2.4055,
0.0000


 106.6954, 71.0014,
26.0928

 4.0623, 0.8287,
0.0000

 135.5092, 93.6373,
38.5345

 1.7375, 0.0000,
0.0000

 169.0929,
120.6357, 54.4105


 0.4795, 0.0000,
0.0000


 207.8119,


 0.0000, 0.0000,


152.3807, 74.1392


0.0000


 252.0317,
189.2569, 98.1391


 31.8332, 16.3928,
2.2969


 31.8332, 16.3928,
2.2969


 31.8324, 16.3924,
2.2942

 32.4234, 17.1114,
3.9186

 33.5542, 18.6106,
6.6459

 35.3636, 21.1275,
10.6459

 37.9375, 24.8007,
16.0500

 41.3490, 29.7470,
22.9729

■ 45.6628, 36.0692,
31.5178

■ 50.9369, 43.8594,
41.7784

■ 57.2246, 53.2017,
53.8415

■ 64.5752, 64.1740,
67.7880

Harmonies

Analogous

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



36.8140, 16.3928, 13.3326



31.8332, 16.3928, 2.2969



22.7123, 16.3928, 0.0000

Triad

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



31.8332, 16.3928, 2.2969



5.2086, 16.3928, 5.2577



17.3784, 16.3928, 109.3453

Complementary

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



31.8332, 16.3928, 2.2969



38.3755, 59.3004, 66.5860

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.



10.1243, 16.3928, 98.1289



31.8332, 16.3928, 2.2969



4.6463, 16.3928, 23.2849

Square

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



31.8332, 16.3928, 2.2969



8.0358, 16.3928, 0.5794



6.0885, 16.3928, 59.6559



26.7929, 16.3928, 83.4698

Rectangle

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



31.8332, 16.3928, 2.2969



16.5896, 16.3928, 0.0000



6.0885, 16.3928, 59.6559



14.6138, 16.3928, 109.9713

Sweetspot

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



31.8335, 16.3939, 2.2971



66.1479, 56.8552, 54.0725



37.8249, 17.8987, 74.1336



13.5037, 11.2007, 10.3052



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.



31.8335, 16.3939, 2.2971



41.4240, 21.3336, 2.8989



35.0910, 23.1557, 2.6216



14.4359, 14.3915, 15.2299



18.5846, 9.5681, 1.4415



1.3935, 0.7151, 0.2126

Inverse Universe

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



31.8335, 16.3939, 2.2971



41.4240, 21.3336, 2.8989



23.2445, 24.3040, 76.1384



14.4359, 14.3915, 15.2299



18.5846, 9.5681, 1.4415



1.3935, 0.7151, 0.2126

Previews

White Background



This preview shows how the XYZ color 31.8332, 16.3928, 2.2969 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 31.8332, 16.3928, 2.2969 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 31.8332, 16.3928, 2.2969

Background



This preview shows how black text looks on a background with the XYZ color 31.8332, 16.3928, 2.2969.



This preview shows how white text looks on a background with the XYZ color 31.8332, 16.3928,

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

31.8332, 16.3928, 2.2969

Protanopia

15.4689, 17.0251, 4.7564

Deuteranopia

17.1457, 16.9570, 2.3694



Tritanopia

31.3195, 16.5439, 1.5426

Trichromacy



Original Color

31.8332, 16.3928, 2.2969

Protanomaly

18.0108, 12.7850, 3.1875

Deuteranomaly

19.8511, 13.3877, 1.7675

Tritanomaly

31.5518, 16.4741, 1.7466

Monochromacy



Original Color

31.8332, 16.3928, 2.2969

Achromatopsia

5.9891, 6.3010, 6.8618

Achromatomaly

10.5063, 6.7323, 4.2357

CSS Examples

Text

The CSS property to change the color of the text to XYZ 31.8332, 16.3928, 2.2969 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, 23)` looks like.

```
.text, #text, p{  
    color:rgb(227, 0, 23)  
}
```

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, 23) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(227, 0, 23) }
```

Border

The CSS property to change the border of an element to XYZ 31.8332, 16.3928, 2.2969 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, 23) }
```


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

```
.border{ border-color:rgb(227, 0, 23) }
```

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, 23) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(227, 0, 23); -webkit-box-  
shadow:4px 4px 4px 4px rgb(227, 0, 23);  
box-shadow:4px 4px 4px 4px rgb(227, 0, 23)  
}
```

Background

The CSS property to change the background color of an element to XYZ 31.8332, 16.3928, 2.2969 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, 23) }
```

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

```
.background{ background-color: rgb(227, 0,  
23) }
```

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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