

Converting Colors

XYZ(31.9087, 16.4211, 2.7769)

Have a look what the booklet for
XYZ(31.9087, 16.4211, 2.7769)
contains.

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Color

**XYZ(31.9259, 16.4298,
2.7849)**

Conversions

Conversions Part 1

Format	Color
Hex	E3001F
RGB	227, 0, 31
RGB Percent	89%, 0%, 12%
CMY	0.1098, 0.9998, 0.8784
CMYK	0.00, 1.00, 0.86, 0.11
HSL	352°, 100%, 45%
HSV	352°, 100%, 89%
XYZ	31.9259, 16.4298, 2.7849
YIQ	71.4070, 125.3410, 57.7650

Conversions

Conversions Part 2

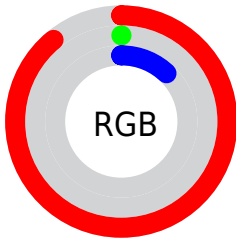
Format	Color
R_{YB}	227, 0, 31
Decimal	14876703
CIE _{Lab}	47.53, 73.72, 50.61
CIE _{LCh}	48, 89.419, 34.474
Yxy	16.4298, 0.6243, 0.3213
Android (android.graphics.Color)	4293066783 (0xFFE3001F)
YUV	71.4070, -19.9207, 136.4551
Hunter-Lab	40.5337, 69.6595, 24.3000

Details

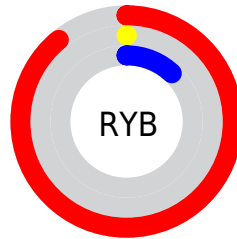
The XYZ color **31.9259, 16.4298, 2.7849** is a dark color, and the websafe version is hex **FF3333**. The color can be described as dark washed red. A complement of this color would be **37.4392, 58.9260, 61.6558**, and the grayscale version is **6.0809, 6.3976, 6.9670**.

A 20% lighter version of the original color is **46.3562, 29.2922, 10.4184**, and **14.6979, 7.5771, 0.6879** is the 20% darker color. If you saturate the color by 10%, you get **31.9251, 16.4295, 2.7818**, and if you desaturate by 10%, it is **32.5687, 17.1693, 4.6839**.

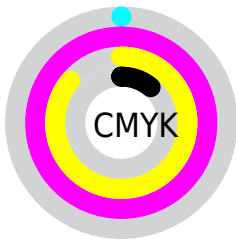
Distribution



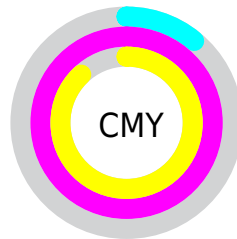
- Red (89%)
- Green (0%)
- Blue (12%)



- Red (89%)
- Yellow (0%)
- Blue (12%)



- Cyan (0%)
- Magenta (100%)
- Yellow (86%)
- Black (11%)





- Cyan (11%)
- Magenta (100%)
- Yellow (88%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 31.9259, 16.4298, 2.7849 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 31.9259, 16.4298, 2.7849 by changing the saturation by 10% instead.


 31.9259, 16.4298,
2.7849


 31.9259, 16.4298,
2.7849


302.5329,
231.8647, 133.5720


 21.4602, 9.8288,
0.9859


 62.0609, 37.3428,
11.0929


 13.5752, 5.2856,
0.0000


 82.4609, 52.4235,
18.4389


 7.9055, 2.4158,
0.0000


 106.9030, 71.0996,
28.4711

 4.0858, 0.8340,
0.0000

 135.7525, 93.7555,
41.6078

 1.7508, 0.0000,
0.0000

 169.3750,
120.7756, 58.2678


 0.4878, 0.0000,
0.0000


 208.1356,


 0.0000, 0.0000,


152.5442, 78.8694


0.0000


 252.3998,
189.4458, 103.8313

 31.9259, 16.4298,
2.7849


 31.9259, 16.4298,
2.7849


 31.9251, 16.4295,
2.7818

 32.5687, 17.1693,
4.6839

 33.7462, 18.6871,
7.6574

 35.5922, 21.2185,
11.8510

 38.1897, 24.9008,
17.3798

 41.6092, 29.8502,
24.3453

■ 45.9131, 36.1682,
32.8391

■ 51.1577, 43.9463,
42.9450

■ 57.3945, 53.2680,
54.7409

■ 64.6713, 64.2105,
68.2993

Harmonies

Analogous

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



36.3697, 16.4298, 14.6851



31.9259, 16.4298, 2.7849



23.1790, 16.4298, 0.0883

Triad

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



31.9259, 16.4298, 2.7849



5.4800, 16.4298, 4.8728



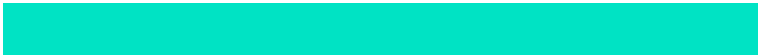
16.8398, 16.4298, 106.7525

Complementary

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



31.9259, 16.4298, 2.7849



37.4392, 58.9260, 61.6558

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.



9.9081, 16.4298, 93.6943



31.9259, 16.4298, 2.7849



4.7914, 16.4298, 21.5286

Square

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



31.9259, 16.4298, 2.7849



8.4592, 16.4298, 0.5760



6.0953, 16.4298, 55.9091



25.9734, 16.4298, 83.7619

Rectangle

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



31.9259, 16.4298, 2.7849



17.1360, 16.4298, 0.0000



6.0953, 16.4298, 55.9091



14.1887, 16.4298, 106.5218

Sweetspot

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



31.9262, 16.4309, 2.7851



66.4380, 56.9713, 55.6004



35.8470, 16.8790, 74.0412



13.5699, 11.2272, 10.6538



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.



31.9262, 16.4309, 2.7851



41.5400, 21.3800, 3.5099



34.5096, 21.9929, 2.4277



14.4566, 14.3998, 15.3390



18.6435, 9.5916, 1.7516



1.4033, 0.7190, 0.2645

Inverse Universe

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



31.9262, 16.4309, 2.7851



41.5400, 21.3800, 3.5099



24.3879, 26.5909, 76.5198



14.4566, 14.3998, 15.3390



18.6435, 9.5916, 1.7516



1.4033, 0.7190, 0.2645

Previews

White Background



This preview shows how the XYZ color 31.9259, 16.4298, 2.7849 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



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 31.9259, 16.4298, 2.7849

Background



This preview shows how black text looks on a background with the XYZ color 31.9259, 16.4298, 2.7849.



This preview shows how white text looks on a background with the XYZ color 31.9259, 16.4298,

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

31.9259, 16.4298, 2.7849

Protanopia

15.5030, 17.0214, 5.7172

Deuteranopia

17.1457, 16.9570, 2.3694



Tritanopia

31.6322, 16.7051, 1.5572

Trichromacy



Original Color

31.9259, 16.4298, 2.7849

Protanomaly

17.9414, 12.7335, 3.8951

Deuteranomaly

19.8677, 13.3944, 1.8548

Tritanomaly

31.5684, 16.4808, 1.8339

Monochromacy



Original Color

31.9259, 16.4298, 2.7849

Achromatopsia

5.9891, 6.3010, 6.8618

Achromatomaly

10.5543, 6.7515, 4.4883

CSS Examples

Text

The CSS property to change the color of the text to XYZ 31.9259, 16.4298, 2.7849 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, 31)` looks like.

```
.text, #text, p{  
  color:rgb(227, 0, 31)  
}
```

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, 31) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(227, 0, 31) }
```

Border

The CSS property to change the border of an element to XYZ 31.9259, 16.4298, 2.7849 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, 31) }
```


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

```
.border{ border-color:rgb(227, 0, 31) }
```

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, 31)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(227, 0, 31); -webkit-box-  
shadow:4px 4px 4px 4px rgb(227, 0, 31);  
box-shadow:4px 4px 4px 4px rgb(227, 0, 31)  
}
```

Background

The CSS property to change the background color of an element to XYZ 31.9259, 16.4298, 2.7849 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, 31) }
```

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

```
.background{ background-color: rgb(227, 0,  
31) }
```

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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