

Converting Colors

XYZ(31.9531, 16.4407, 2.9281)

Have a look what the booklet for
XYZ(31.9531, 16.4407, 2.9281)
contains.

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Color

**XYZ(31.9531, 16.4407,
2.9281)**

Conversions

Conversions Part 1

Format	Color
Hex	E30021
RGB	227, 0, 33
RGB Percent	89%, 0%, 13%
CMY	0.1098, 0.9998, 0.8706
CMYK	0.00, 1.00, 0.85, 0.11
HSL	351°, 100%, 45%
HSV	351°, 100%, 89%
XYZ	31.9531, 16.4407, 2.9281
YIQ	71.6350, 124.6990, 58.3870

Conversions

Conversions Part 2

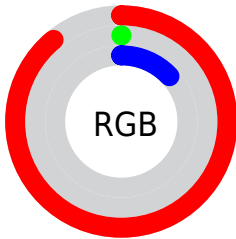
Format	Color
RYB	227, 0, 33
Decimal	14876705
CIELab	47.55, 73.75, 49.64
CIELCh	48, 88.906, 33.945
Yxy	16.4407, 0.6226, 0.3203
Android (android.graphics.Color)	4293066785 (0xFFE30021)
YUV	71.6350, -19.0471, 136.2551
Hunter-Lab	40.5471, 69.7091, 24.1014

Details

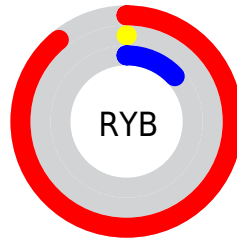
The XYZ color **31.9531, 16.4407, 2.9281** is a dark color, and the websafe version is hex **FF3333**. The color can be described as dark washed red. A complement of this color would be **37.2131, 58.8356, 60.4648**, and the grayscale version is **6.1186, 6.4373, 7.0102**.

A 20% lighter version of the original color is **46.4291, 29.3214, 10.8019**, and **14.9003, 7.6814, 0.6973** is the 20% darker color. If you saturate the color by 10%, you get **31.9522, 16.4403, 2.9248**, and if you desaturate by 10%, it is **32.6089, 17.1854, 4.8953**.

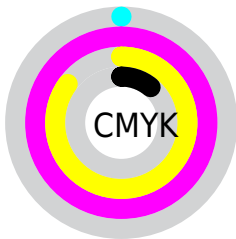
Distribution



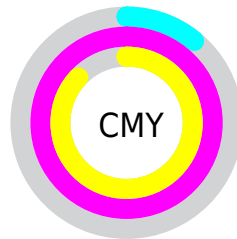
- Red (89%)
- Green (0%)
- Blue (13%)



- Red (89%)
- Yellow (0%)
- Blue (13%)



- Cyan (0%)
- Magenta (100%)
- Yellow (85%)
- Black (11%)





- Cyan (11%)
- Magenta (100%)
- Yellow (87%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 31.9531, 16.4407, 2.9281 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 31.9531, 16.4407, 2.9281 by changing the saturation by 10% instead.


 31.9531, 16.4407,
2.9281


 31.9531, 16.4407,
2.9281


302.6546,
231.9283, 135.4395


 21.4811, 9.8365,
1.0580


 62.1032, 37.3616,
11.4505


 13.5905, 5.2907,
0.0000

 82.5121, 52.4471,
18.9399

 7.9162, 2.4188,
0.0000


 106.9638, 71.1286,
29.1395

 4.0927, 0.8355,
0.0000

 135.8239, 93.7903,
42.4679

 1.7547, 0.0000,
0.0000

 169.4577,
120.8168, 59.3435


 0.4902, 0.0000,
0.0000


 208.2305,


 0.0000, 0.0000,


152.5924, 80.1850


0.0000


 252.5077,
189.5014, 105.4108


 31.9531, 16.4407,
2.9281


 31.9531, 16.4407,
2.9281


 31.9522, 16.4403,
2.9248

 32.6089, 17.1854,
4.8953

 33.7976, 18.7077,
7.9280

 35.6523, 21.2426,
12.1671

 38.2552, 24.9272,
17.7241

 41.6762, 29.8772,
24.6974

■ 45.9772, 36.1941,
33.1758

■ 51.2140, 43.9692,
43.2409

■ 57.4379, 53.2857,
54.9684

■ 64.6962, 64.2209,
68.4289

Harmonies

Analogous

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



36.2523, 16.4407, 15.0674



31.9531, 16.4407, 2.9281



23.3079, 16.4407, 0.1474

Triad

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



31.9531, 16.4407, 2.9281



5.5553, 16.4407, 4.7719



16.6967, 16.4407, 106.0653

Complementary

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



31.9531, 16.4407, 2.9281



37.2131, 58.8356, 60.4648

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.



9.8505, 16.4407, 92.5233



31.9531, 16.4407, 2.9281



4.8313, 16.4407, 21.0696

Square

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



31.9531, 16.4407, 2.9281



8.5768, 16.4407, 0.5750



6.0974, 16.4407, 54.9255



25.7559, 16.4407, 83.8474

Rectangle

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



31.9531, 16.4407, 2.9281



17.2870, 16.4407, 0.0000



6.0974, 16.4407, 54.9255



14.0757, 16.4407, 105.6080

Sweetspot

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



31.9535, 16.4418, 2.9283



66.5113, 57.0006, 55.9864



35.8471, 16.8790, 74.0412



13.5867, 11.2339, 10.7421



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.



31.9535, 16.4418, 2.9283



41.5742, 21.3937, 3.6901



34.5097, 21.9930, 2.4278



14.4618, 14.4019, 15.3663



18.6605, 9.5984, 1.8414



1.4058, 0.7200, 0.2775

Inverse Universe

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



31.9535, 16.4418, 2.9283



41.5742, 21.3937, 3.6901



24.3880, 26.5910, 76.5198



14.4618, 14.4019, 15.3663



18.6605, 9.5984, 1.8414



1.4058, 0.7200, 0.2775

Previews

White Background



This preview shows how the XYZ color 31.9531, 16.4407, 2.9281 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 31.9531, 16.4407, 2.9281

Background



This preview shows how black text looks on a background with the XYZ color 31.9531, 16.4407, 2.9281.



This preview shows how white text looks on a background with the XYZ color 31.9531, 16.4407,

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

31.9531, 16.4407, 2.9281

Protanopia

15.5490, 17.0398, 5.9595

Deuteranopia

17.1457, 16.9570, 2.3694



Tritanopia

31.6142, 16.6691, 1.5512

Trichromacy



Original Color

31.9531, 16.4407, 2.9281

Protanomaly

17.9799, 12.7489, 4.0979

Deuteranomaly

19.8737, 13.3967, 1.8862

Tritanomaly

31.5743, 16.4831, 1.8652

Monochromacy



Original Color

31.9531, 16.4407, 2.9281

Achromatopsia

6.1596, 6.4803, 7.0571

Achromatomaly

10.6428, 6.8487, 4.7640

CSS Examples

Text

The CSS property to change the color of the text to XYZ 31.9531, 16.4407, 2.9281 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, 33)` looks like.

```
.text, #text, p{  
    color:rgb(227, 0, 33)  
}
```

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, 33) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(227, 0, 33) }
```

Border

The CSS property to change the border of an element to XYZ 31.9531, 16.4407, 2.9281 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, 33) }
```


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

```
.border{ border-color:rgb(227, 0, 33) }
```

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, 33)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(227, 0, 33); -webkit-box-  
shadow:4px 4px 4px 4px rgb(227, 0, 33);  
box-shadow:4px 4px 4px 4px rgb(227, 0, 33)  
}
```

Background

The CSS property to change the background color of an element to XYZ 31.9531, 16.4407, 2.9281 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, 33) }
```

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

```
.background{ background-color: rgb(227, 0,  
33) }
```

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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