

Converting Colors

XYZ(31.2462, 17.6044, 2.3064)

Have a look what the booklet for
XYZ(31.2462, 17.6044, 2.3064)
contains.

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Color

**XYZ(31.2499, 17.6063,
2.3236)**

Conversions

Conversions Part 1

Format	Color
Hex	DE2F12
RGB	222, 47, 18
RGB Percent	87%, 18%, 7%
CMY	0.1294, 0.8156, 0.9294
CMYK	0.00, 0.79, 0.92, 0.13
HSL	9°, 85%, 47%
HSV	9°, 92%, 87%
XYZ	31.2499, 17.6063, 2.3236
YIQ	96.0190, 113.6090, 28.0810

Conversions

Conversions Part 2

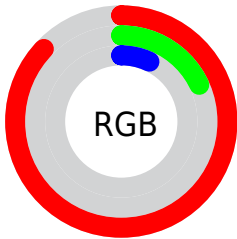
Format	Color
R_{YB}	222, 52, 18
Decimal	14561042
CIE Lab	49.02, 64.86, 56.62
CIE LCh	49, 86.096, 41.120
Yxy	17.6063, 0.6106, 0.3440
Android (android.graphics.Color)	4292751122 (0xFFDE2F12)
YUV	96.0190, -38.4634, 110.4853
Hunter-Lab	41.9599, 59.5094, 26.0886

Details

The XYZ color **31.2499, 17.6063, 2.3236** 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 **32.5011, 43.5363, 75.7970**, and the grayscale version is **11.1956, 11.7786, 12.8269**.

A 20% lighter version of the original color is **47.6460, 32.4025, 9.2119**, and **13.9046, 7.1681, 0.6507** is the 20% darker color. If you saturate the color by 10%, you get **30.6290, 16.5397, 1.5781**, and if you desaturate by 10%, it is **32.4620, 19.5872, 4.0953**.

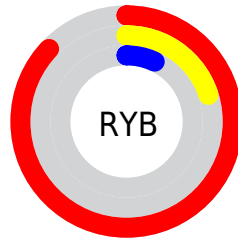
Distribution



Red (87%)

Green (18%)

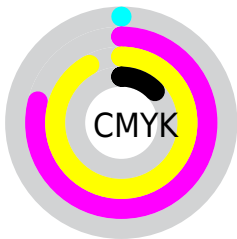
Blue (7%)



Red (87%)

Yellow (20%)

Blue (7%)

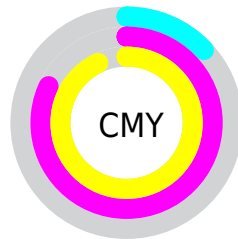


Cyan (0%)

Magenta (79%)

Yellow (92%)

Black (13%)



Cyan (13%)


Magenta (82%)


Yellow (93%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 31.2499, 17.6063, 2.3236 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 31.2499, 17.6063, 2.3236 by changing the saturation by 10% instead.


 31.2499, 17.6063,
2.3236


 31.2499, 17.6063,
2.3236


299.4943,
238.6425, 127.2150


 20.9420, 10.6677,
0.7444


 61.0065, 39.3653,
9.9080

 13.1938, 5.8439,
0.0000


 81.1858, 54.9545,
16.7665


 7.6401, 2.7504,
0.0000


 105.3864, 74.1961,
26.2274

 3.9154, 1.0028,
0.0000

 133.9734, 97.4743,
38.7091

 1.6544, 0.0000,
0.0000

 167.3124,
125.1737, 54.6301

 0.4274, 0.0000,
0.0000


 205.7687,


 0.0000, 0.0000,


157.6786, 74.4091


0.0000


 249.7075,
195.3734, 98.4646


 31.2499, 17.6063,
2.3236


 31.2499, 17.6063,
2.3236


 30.6290, 16.5397,
1.5781

 32.4620, 19.5872,
4.0953

 34.2609, 22.3945,
7.1323

 36.7126, 26.1085,
11.6161

 39.8734, 30.7988,
17.6985

 43.7935, 36.5284,
25.5120

■ 48.5185, 43.3548,
35.1752

■ 54.0903, 51.3313,
46.7963

■ 60.5478, 60.5077,
60.4750

■ 67.9277, 70.9307,
76.3043

Harmonies

Analogous

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



36.8889, 17.6063, 11.8507



31.2499, 17.6063, 2.3236



22.2377, 17.6063, 0.2129

Triad

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



31.2499, 17.6063, 2.3236



5.9718, 17.6063, 8.1350



19.8887, 17.6063, 103.3832

Complementary

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



31.2499, 17.6063, 2.3236



32.5011, 43.5363, 75.7970

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.



12.2231, 17.6063, 98.6979



31.2499, 17.6063, 2.3236



5.7041, 17.6063, 29.0138

Square

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



31.2499, 17.6063, 2.3236



8.5025, 17.6063, 1.4345



7.5969, 17.6063, 65.3628



29.0647, 17.6063, 75.4135

Rectangle

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



31.2499, 17.6063, 2.3236



16.4346, 17.6063, 0.0000



7.5969, 17.6063, 65.3628



17.0376, 17.6063, 105.9282

Sweetspot

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



31.2503, 17.6074, 2.3239



69.0871, 63.1784, 53.6812



40.1680, 19.8932, 53.2337



14.1160, 12.5586, 10.0984



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.



31.2503, 17.6074, 2.3239



41.8790, 22.5380, 2.1430



40.6980, 36.5029, 5.4731



13.8637, 14.0134, 14.2809



18.2413, 9.9206, 0.9534



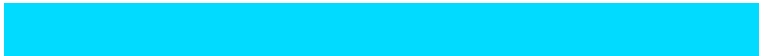
1.3150, 0.7890, 0.0830

Inverse Universe

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



32.5011, 43.5363, 75.7970



43.3120, 57.7439, 103.4707



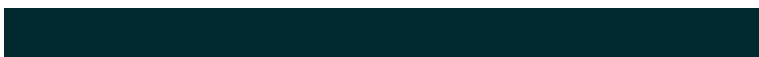
17.3311, 13.1963, 70.7404



13.9417, 15.2226, 17.5911



18.8862, 25.2420, 44.9251



1.3553, 1.8420, 3.1294

Previews

White Background



This preview shows how the XYZ color 31.2499, 17.6063, 2.3236 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 31.2499, 17.6063, 2.3236 looks on a black 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

If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 31.2499, 17.6063, 2.3236

Background



This preview shows how black text looks on a background with the XYZ color 31.2499, 17.6063, 2.3236.



This preview shows how white text looks on a background with the XYZ color 31.2499, 17.6063,

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

31.2499, 17.6063, 2.3236

Protanopia

16.0247, 17.6692, 4.1560

Deuteranopia

17.8972, 17.6648, 2.4664



Tritanopia

31.4795, 17.5128, 4.1040

Trichromacy



Original Color

31.2499, 17.6063, 2.3236

Protanomaly

19.3588, 15.6355, 3.1600

Deuteranomaly

21.2073, 16.1087, 2.1926

Tritanomaly

31.3660, 17.5277, 3.3201

Monochromacy



Original Color

31.2499, 17.6063, 2.3236

Achromatopsia

11.1181, 11.6971, 12.7381

Achromatomaly

14.9231, 11.6169, 6.9246

CSS Examples

Text

The CSS property to change the color of the text to XYZ 31.2499, 17.6063, 2.3236 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(222, 47, 18)` looks like.

```
.text, #text, p{  
    color:rgb(222, 47, 18)  
}
```

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(222, 47, 18) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(222, 47, 18) }
```

Border

The CSS property to change the border of an element to XYZ 31.2499, 17.6063, 2.3236 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(222, 47, 18) }
```


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

```
.border{ border-color:rgb(222, 47, 18) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel rgb(222, 47, 18) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(222, 47, 18); -webkit-box-  
shadow:4px 4px 4px 4px rgb(222, 47, 18);  
box-shadow:4px 4px 4px 4px rgb(222, 47,  
18) }
```

Background

The CSS property to change the background color of an element to XYZ 31.2499, 17.6063, 2.3236 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(222, 47, 18) }
```

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

```
.background{ background-color: rgb(222, 47,  
18) }
```

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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