

Converting Colors

XYZ(31.8500, 20.8847, 2.1295)

Have a look what the booklet for
XYZ(31.8500, 20.8847, 2.1295)
contains.

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Color

**XYZ(31.9307, 20.9400,
2.3589)**

Conversions

Conversions Part 1

Format	Color
Hex	DA5200
RGB	218, 82, 0
RGB Percent	85%, 32%, 0%
CMY	0.1451, 0.6784, 1.0000
CMYK	0.00, 0.62, 1.00, 0.15
HSL	23°, 100%, 43%
HSV	23°, 100%, 85%
XYZ	31.9307, 20.9400, 2.3589
YIQ	113.3160, 107.3780, 3.3300

Conversions

Conversions Part 2

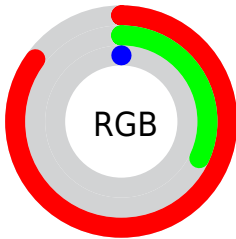
Format	Color
RYB	218, 131, 0
Decimal	14307840
CIELab	52.88, 50.67, 63.01
CIElCh	53, 80.857, 51.195
Yxy	20.9400, 0.5781, 0.3791
Android (android.graphics.Color)	4292497920 (0xFFDA5200)
YUV	113.3160, -55.8648, 91.8079
Hunter-Lab	45.7602, 44.4738, 28.9758

Details

The XYZ color **31.9307, 20.9400, 2.3589** is a dark color, and the websafe version is hex **CC3300**. The color can be described as dark washed red. A complement of this color would be **21.4582, 22.6688, 69.5736**, and the grayscale version is **15.9298, 16.7593, 18.2509**.

A 20% lighter version of the original color is **50.9137, 39.2161, 9.4435**, and **13.6328, 7.4828, 0.7258** is the 20% darker color. If you saturate the color by 10%, you get **31.9309, 20.9408, 2.3590**, and if you desaturate by 10%, it is **33.2033, 23.2569, 3.4882**.

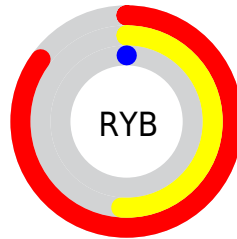
Distribution



Red (85%)

Green (32%)

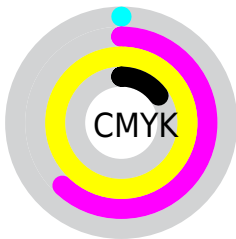
Blue (0%)



Red (85%)

Yellow (51%)

Blue (0%)

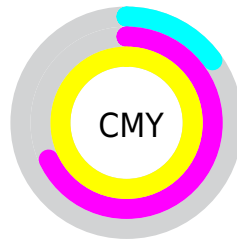


Cyan (0%)

Magenta (62%)

Yellow (100%)

Black (15%)



Cyan (15%)


Magenta (68%)


Yellow (100%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 31.9307, 20.9400, 2.3589 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 31.9307, 20.9400, 2.3589 by changing the saturation by 10% instead.


 31.9307, 20.9400,
2.3589


 31.9307, 20.9400,
2.3589


302.5543,
256.9595, 127.7221


 21.4639, 13.0802,
0.7639


 62.0684, 44.9877,
10.0006

 13.5779, 7.4838,
0.0000


 82.4699, 61.9443,
16.8980

 7.9074, 3.7664,
0.0000


 106.9137, 82.7019,
26.4045

 4.0871, 1.5438,
0.0000

 135.7651,
107.6450, 38.9386

 1.7515, 0.3193,
0.0000

 169.3896,
137.1579, 54.9189

 0.4882, 0.0000,
0.0000


 208.1523,


 0.0000, 0.0000,


171.6250, 74.7639


0.0000


 252.4188,
211.4307, 98.8921


 31.9307, 20.9400,
2.3589

 31.9307, 20.9400,
2.3589


 31.9309, 20.9408,
2.3590

 33.2033, 23.2569,
3.4882

 34.8512, 26.0658,
5.5384

 36.9381, 29.4097,
8.7924

 39.5033, 33.3197,
13.4099

 42.5809, 37.8239,
19.5256

■ 46.2014, 42.9483,
27.2579

■ 50.3927, 48.7170,
36.7131

■ 55.1805, 55.1529,
47.9883

■ 60.5889, 62.2774,
61.1736

Harmonies

Analogous

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



39.2383, 20.9400, 9.7680



31.9307, 20.9400, 2.3589



22.4971, 20.9400, 0.7882

Triad

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



31.9307, 20.9400, 2.3589



7.7706, 20.9400, 16.3887



26.3794, 20.9400, 99.6101

Complementary

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



31.9307, 20.9400, 2.3589



21.4582, 22.6688, 69.5736

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.



17.5161, 20.9400, 106.7246



31.9307, 20.9400, 2.3589



8.2660, 20.9400, 44.1204

Square

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



31.9307, 20.9400, 2.3589



9.7304, 20.9400, 4.2973



11.3530, 20.9400, 81.7481



35.4535, 20.9400, 66.2051

Rectangle

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



31.9307, 20.9400, 2.3589



16.9100, 20.9400, 0.8292



11.3530, 20.9400, 81.7481



23.2295, 20.9400, 105.7838

Sweetspot

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



31.9311, 20.9412, 2.3592



71.7063, 69.2547, 51.9713



33.5056, 16.7423, 25.5361



14.7841, 14.0520, 9.8362



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.



31.9311, 20.9412, 2.3592



45.4160, 29.6120, 3.3220



47.0964, 51.2717, 7.4143



13.4554, 13.8501, 13.6897



19.2256, 12.7368, 1.4452



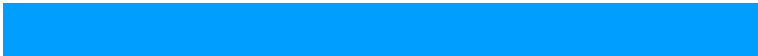
1.3268, 0.9877, 0.1207

Inverse Universe

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



21.4582, 22.6688, 69.5736



30.4611, 32.0421, 99.1870



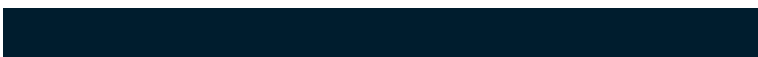
13.0959, 5.9441, 66.7861



13.0119, 13.9636, 16.6616



12.9622, 13.7939, 41.7177



0.9216, 1.0573, 2.7300

Previews

White Background



This preview shows how the XYZ color 31.9307, 20.9400, 2.3589 looks on a white 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

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 31.9307, 20.9400, 2.3589

Background



This preview shows how black text looks on a background with the XYZ color 31.9307, 20.9400, 2.3589.



This preview shows how white text looks on a background with the XYZ color 31.9307, 20.9400,

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

31.9307, 20.9400, 2.3589

Protanopia

19.0619, 21.0763, 3.8225

Deuteranopia

21.2137, 20.9065, 2.9173



Tritanopia

33.5848, 20.9786, 10.0637

Trichromacy



Original Color

31.9307, 20.9400, 2.3589

Protanomaly

22.3413, 19.9466, 3.0880

Deuteranomaly

24.2101, 20.1318, 2.6098

Tritanomaly

32.5576, 20.7568, 5.5393

Monochromacy



Original Color

31.9307, 20.9400, 2.3589

Achromatopsia

15.6958, 16.5132, 17.9829

Achromatomaly

18.6836, 16.5499, 8.3406

CSS Examples

Text

The CSS property to change the color of the text to XYZ 31.9307, 20.9400, 2.3589 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(218, 82, 0)` looks like.

```
.text, #text, p{  
    color:rgb(218, 82, 0)  
}
```

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(218, 82, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(218, 82, 0) }
```

Border

The CSS property to change the border of an element to XYZ 31.9307, 20.9400, 2.3589 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(218, 82, 0) }
```


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

```
.border{ border-color:rgb(218, 82, 0) }
```

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

Here you see how a box with a 4 pixel rgb(218, 82, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(218, 82, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(218, 82, 0);  
box-shadow:4px 4px 4px 4px rgb(218, 82, 0)  
}
```

Background

The CSS property to change the background color of an element to XYZ 31.9307, 20.9400, 2.3589 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(218, 82, 0) }
```

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

```
.background{ background-color: rgb(218, 82,  
0) }
```

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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