

Converting Colors

XYZ(31.7959, 20.0909, 2.2021)

Have a look what the booklet for
XYZ(31.7959, 20.0909, 2.2021)
contains.

XYZ(31.7295, 20.0922, 2.2059)	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(31.7295, 20.0922,
2.2059)**

Conversions

Conversions Part 1

Format	Color
Hex	DB4B00
RGB	219, 75, 0
RGB Percent	86%, 29%, 0%
CMY	0.1412, 0.7058, 1.0000
CMYK	0.00, 0.66, 1.00, 0.14
HSL	21°, 100%, 43%
HSV	21°, 100%, 86%
XYZ	31.7295, 20.0922, 2.2059
YIQ	109.5060, 109.8990, 7.2030

Conversions

Conversions Part 2

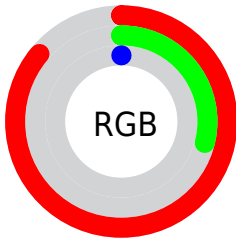
Format	Color
RYB	219, 114, 0
Decimal	14371584
CIELab	51.94, 54.00, 62.62
CIELCh	52, 82.688, 49.225
Yxy	20.0922, 0.5873, 0.3719
Android (android.graphics.Color)	4292561664 (0xFFDB4B00)
YUV	109.5060, -53.9865, 96.0262
Hunter-Lab	44.8243, 47.9111, 28.4592

Details

The XYZ color **31.7295, 20.0922, 2.2059** 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 **22.7587, 25.0595, 70.6548**, and the grayscale version is **14.8082, 15.5793, 16.9659**.

A 20% lighter version of the original color is **50.0649, 37.5622, 9.0264**, and **13.5827, 7.0988, 0.6543** is the 20% darker color. If you saturate the color by 10%, you get **31.7297, 20.0929, 2.2060**, and if you desaturate by 10%, it is **32.9636, 22.3305, 3.3271**.

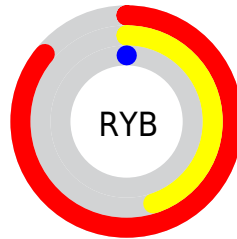
Distribution



Red (86%)

Green (29%)

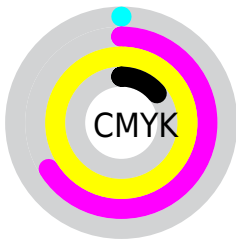
Blue (0%)



Red (86%)

Yellow (45%)

Blue (0%)

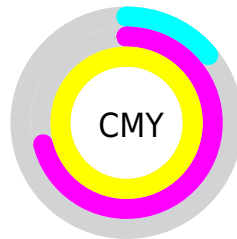


Cyan (0%)

Magenta (66%)

Yellow (100%)

Black (14%)



Cyan (14%)


Magenta (71%)


Yellow (100%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 31.7295, 20.0922, 2.2059 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 31.7295, 20.0922, 2.2059 by changing the saturation by 10% instead.

 31.7295, 20.0922,
2.2059


 31.7295, 20.0922,
2.2059


301.6524,
252.4138, 125.4963


 21.3095, 12.4621,
0.6778


 61.7549, 43.5717,
9.5964


 13.4642, 7.0592,
0.0000


 82.0909, 60.1899,
16.3234

 7.8282, 3.4991,
0.0000


 106.4631, 80.5729,
25.6295

 4.0361, 1.3975,
0.0000

 135.2367,
105.1051, 37.9333

 1.7226, 0.2149,
0.0000

 168.7770,
134.1709, 53.6533


 0.4703, 0.0000,
0.0000


 207.4495,


 0.0000, 0.0000,


168.1547, 73.2081


0.0000


 251.6196,
207.4408, 97.0163


 31.7295, 20.0922,
2.2059


 31.7295, 20.0922,
2.2059


 31.7297, 20.0929,
2.2060

 32.9636, 22.3305,
3.3271

 34.5952, 25.1024,
5.3856

 36.6908, 28.4556,
8.6674

 39.2921, 32.4256,
13.3348

 42.4354, 37.0443,
19.5246

■ 46.1533, 42.3413,
27.3570

■ 50.4752, 48.3441,
36.9401

■ 55.4289, 55.0785,
48.3727

■ 61.0398, 62.5691,
61.7461

Harmonies

Analogous

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



38.8055, 20.0922, 9.8930



31.7295, 20.0922, 2.2059



22.2836, 20.0922, 0.5820

Triad

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



31.7295, 20.0922, 2.2059



7.2061, 20.0922, 14.3088



24.9343, 20.0922, 101.2557

Complementary

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



31.7295, 20.0922, 2.2059



22.7587, 25.0595, 70.6548

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.



16.2297, 20.0922, 106.2427



31.7295, 20.0922, 2.2059



7.5331, 20.0922, 40.9527

Square

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



31.7295, 20.0922, 2.2059



9.2796, 20.0922, 3.4256



10.3608, 20.0922, 79.0564



34.1532, 20.0922, 68.2248

Rectangle

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



31.7295, 20.0922, 2.2059



16.6193, 20.0922, 0.5548



10.3608, 20.0922, 79.0564



21.8096, 20.0922, 106.8677

Sweetspot

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



31.7299, 20.0934, 2.2062



71.0860, 68.0141, 51.7646



34.4017, 17.1354, 28.6889



14.6392, 13.7624, 9.7879



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.



31.7299, 20.0934, 2.2062



44.6755, 28.1309, 3.0752



46.0438, 48.7211, 6.9775



13.4188, 13.7770, 13.6776



18.9062, 12.0979, 1.3387



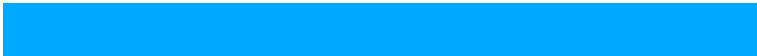
1.3034, 0.9409, 0.1129

Inverse Universe

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



22.7587, 25.0595, 70.6548



31.9907, 35.1014, 99.6969



13.4324, 6.4070, 67.5460



13.0499, 14.0395, 16.6742



13.6002, 15.0699, 41.9304



0.9600, 1.1341, 2.7428

Previews

White Background



This preview shows how the XYZ color 31.7295, 20.0922, 2.2059 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



This preview shows how the XYZ color 31.7295, 20.0922, 2.2059 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 31.7295, 20.0922, 2.2059

Background



This preview shows how black text looks on a background with the XYZ color 31.7295, 20.0922, 2.2059.



This preview shows how white text looks on a background with the XYZ color 31.7295, 20.0922,

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

31.7295, 20.0922, 2.2059

Protanopia

18.3035, 20.3045, 3.7651

Deuteranopia

20.3831, 20.1250, 2.8102



Tritanopia

32.9414, 20.0904, 8.6202

Trichromacy



Original Color

31.7295, 20.0922, 2.2059

Protanomaly

21.7061, 18.9849, 2.9724

Deuteranomaly

23.5738, 19.2060, 2.4647

Tritanomaly

32.3457, 20.0556, 4.8556

Monochromacy



Original Color

31.7295, 20.0922, 2.2059

Achromatopsia

14.8208, 15.5926, 16.9804

Achromatomaly

17.9579, 15.4756, 7.8350

CSS Examples

Text

The CSS property to change the color of the text to XYZ 31.7295, 20.0922, 2.2059 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(219, 75, 0)` looks like.

```
.text, #text, p{  
    color:rgb(219, 75, 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(219, 75, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(219, 75, 0) }
```

Border

The CSS property to change the border of an element to XYZ 31.7295, 20.0922, 2.2059 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(219, 75, 0) }
```


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

```
.border{ border-color:rgb(219, 75, 0) }
```

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

Here you see how a box with a 4 pixel rgb(219, 75, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(219, 75, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(219, 75, 0);  
box-shadow:4px 4px 4px 4px rgb(219, 75, 0)  
}
```

Background

The CSS property to change the background color of an element to XYZ 31.7295, 20.0922, 2.2059 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(219, 75, 0) }
```

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

```
.background{ background-color: rgb(219, 75,  
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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor