

Converting Colors

XYZ(31.2452, 30.5016, 4.2406)

Have a look what the booklet for
XYZ(31.2452, 30.5016, 4.2406)
contains.

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Color

**XYZ(31.1589, 30.4224,
4.2299)**

Conversions

Conversions Part 1

Format	Color
Hex	BF8E00
RGB	191, 142, 0
RGB Percent	75%, 56%, 0%
CMY	0.2510, 0.4431, 1.0000
CMYK	0.00, 0.26, 1.00, 0.25
HSL	45°, 100%, 37%
HSV	45°, 100%, 75%
XYZ	31.1589, 30.4224, 4.2299
YIQ	140.4630, 74.7860, -33.7740

Conversions

Conversions Part 2

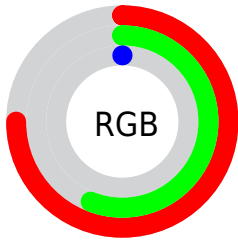
Format	Color
RYB	66, 191, 0
Decimal	12553728
CIELab	62.02, 8.48, 66.78
CIELCh	62, 67.312, 82.762
Yxy	30.4224, 0.4735, 0.4623
Android (android.graphics.Color)	4290743808 (0xFFBF8E00)
YUV	140.4630, -69.2483, 44.3209
Hunter-Lab	55.1565, 4.3140, 34.0627

Details

The XYZ color **31.1589, 30.4224, 4.2299** is a dark color, and the websafe version is hex **CC9900**. A complement of this color would be **10.5027, 5.9588, 49.8865**, and the grayscale version is **25.3502, 26.6704, 29.0440**.

A 20% lighter version of the original color is **60.8297, 60.1935, 14.5433**, and **13.3429, 12.5598, 1.7210** is the 20% darker color. If you saturate the color by 10%, you get **31.1590, 30.4229, 4.2300**, and if you desaturate by 10%, it is **32.0232, 31.9616, 5.1026**.

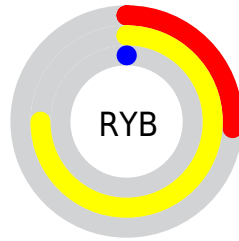
Distribution



Red (75%)

Green (56%)

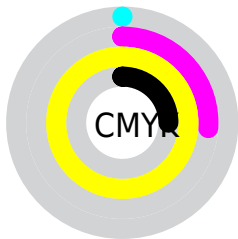
Blue (0%)



Red (26%)

Yellow (75%)

Blue (0%)

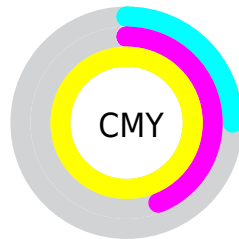


Cyan (0%)

Magenta (26%)

Yellow (100%)

Black (25%)



Cyan (25%)


Magenta (44%)


Yellow (100%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 31.1589, 30.4224, 4.2299 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 31.1589, 30.4224, 4.2299 by changing the saturation by 10% instead.


 31.1589, 30.4224,
4.2299


 31.1589, 30.4224,
4.2299


299.0835,
303.8684, 150.7474


 20.8723, 20.1594,
1.7523


 60.8643, 60.3295,
14.5366

 13.1426, 12.5110,
0.3962


 81.0138, 80.7425,
23.2028

 7.6045, 7.0927,
0.0000


 105.1817,
105.3076, 34.7689

 3.8926, 3.5201,
0.0000

 133.7332,
134.4091, 49.6535

 1.6416, 1.4089,
0.0000

 167.0338,
168.4316, 68.2751

 0.4193, 0.2233,
0.0000

 205.4488,

 0.0000, 0.0000,

207.7594, 91.0523

0.0000

249.3436,
252.7769, 118.4035

31.1589, 30.4224,
4.2299

31.1589, 30.4224,
4.2299

31.1590, 30.4229,
4.2300

32.0232, 31.9616,
5.1026

33.0356, 33.6108,
6.5981

34.2391, 35.3889,
8.9380

35.6553, 37.3053,
12.2343

37.3027, 39.3679,
16.5817

■ 39.1972, 41.5838,
22.0635

■ 41.3536, 43.9593,
28.7546

■ 43.7852, 46.5004,
36.7235

■ 46.5043, 49.2127,
46.0335

Harmonies

Analogous

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



40.7470, 30.4224, 7.2124



31.1589, 30.4224, 4.2299



22.7043, 30.4224, 5.1742

Triad

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



31.1589, 30.4224, 4.2299



15.6776, 30.4224, 56.3308



45.0595, 30.4224, 73.2493

Complementary

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



31.1589, 30.4224, 4.2299



10.5027, 5.9588, 49.8865

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.



36.1675, 30.4224, 103.3956



31.1589, 30.4224, 4.2299



19.6296, 30.4224, 90.5828

Square

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



31.1589, 30.4224, 4.2299



14.8842, 30.4224, 27.2462



26.7826, 30.4224, 111.0002



49.7880, 30.4224, 39.7935

Rectangle

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



31.1589, 30.4224, 4.2299



18.6559, 30.4224, 8.3858



26.7826, 30.4224, 111.0002



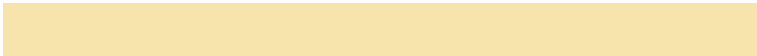
42.3797, 30.4224, 84.6911

Sweetspot

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



31.1596, 30.4239, 4.2305



73.8681, 78.5204, 50.8715



22.0821, 11.3151, 4.1455



15.8480, 16.8370, 9.9978



92.9021, 97.7402, 106.4391



19.4759, 20.4902, 22.3138

Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



31.1596, 30.4239, 4.2305



55.6004, 54.0761, 7.5073



30.5624, 43.4124, 6.7690



10.1094, 10.6949, 10.1081



20.5449, 20.1286, 2.8024



0.8546, 0.8880, 0.1264

Inverse Universe

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



10.5027, 5.9588, 49.8865



18.6453, 10.3424, 89.2927



10.4677, 4.3102, 49.5701



9.2101, 9.6126, 12.0422



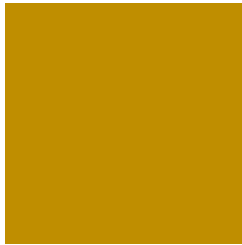
6.9579, 4.0275, 32.8036



0.3273, 0.2672, 1.3032

Previews

White Background



This preview shows how the XYZ color 31.1589, 30.4224, 4.2299 looks on a white background.

Color Contrast Check

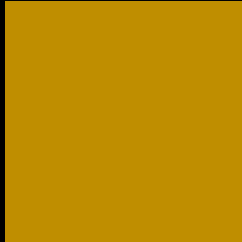
Large Text (above 18pt) WCAG AA × Fail

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 31.1589, 30.4224, 4.2299 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 ✓ Pass

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

XYZ 31.1589, 30.4224, 4.2299

Background



This preview shows how black text looks on a background with the XYZ color 31.1589, 30.4224, 4.2299.



This preview shows how white text looks on a background with the XYZ color 31.1589, 30.4224,

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

31.1589, 30.4224, 4.2299

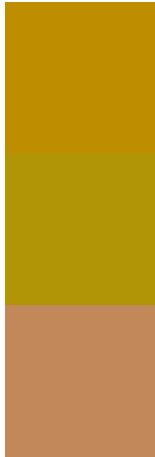
Protanopia

27.7046, 30.7034, 4.7828

Tritanopia

36.4225, 30.4613, 29.5511

Trichromacy



Original Color

31.1589, 30.4224, 4.2299

Protanomaly

28.9884, 30.6601, 4.5912

Tritanomaly

33.1553, 29.9486, 13.7060

Monochromacy



Original Color

31.1589, 30.4224, 4.2299

Achromatopsia

24.9269, 26.2251, 28.5591

Achromatomaly

25.6261, 27.1419, 13.3395

CSS Examples

Text

The CSS property to change the color of the text to XYZ 31.1589, 30.4224, 4.2299 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(191, 142, 0)` looks like.

```
.text, #text, p{  
    color:rgb(191, 142, 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(191, 142, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(191, 142, 0) }
```

Border

The CSS property to change the border of an element to XYZ 31.1589, 30.4224, 4.2299 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(191, 142, 0) }
```

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

```
.border{ border-color:rgb(191, 142, 0) }
```

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

Here you see how a box with a 4 pixel rgb(191, 142, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(191, 142, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(191, 142, 0);  
box-shadow:4px 4px 4px 4px rgb(191, 142,  
0) }
```


Background

The CSS property to change the background color of an element to XYZ 31.1589, 30.4224, 4.2299 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(191, 142, 0) }
```

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

```
.background{ background-color: rgb(191,  
142, 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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