

Converting Colors

XYZ(31.1898, 32.3228, 14.0032)

Have a look what the booklet for
XYZ(31.1898, 32.3228, 14.0032)
contains.

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Color

**XYZ(31.2299, 32.3195,
14.0435)**

Conversions

Conversions Part 1

Format	Color
Hex	B29759
RGB	178, 151, 89
RGB Percent	70%, 59%, 35%
CMY	0.3020, 0.4078, 0.6510
CMYK	0.00, 0.15, 0.50, 0.30
HSL	42°, 37%, 52%
HSV	42°, 50%, 70%
XYZ	31.2299, 32.3195, 14.0435
YIQ	152.0050, 35.9940, -13.5580

Conversions

Conversions Part 2

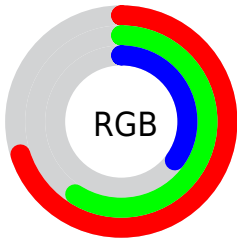
Format	Color
RYB	128, 178, 89
Decimal	11704153
CIELab	63.61, 1.89, 36.20
CIELCh	64, 36.252, 87.007
Yxy	32.3195, 0.4025, 0.4165
Android (android.graphics.Color)	4289894233 (0xFFB29759)
YUV	152.0050, -31.0615, 22.7976
Hunter-Lab	56.8502, -1.4314, 25.1490

Details

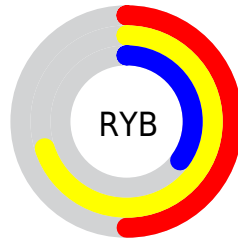
The XYZ color **31.2299, 32.3195, 14.0435** is a dark color, and the websafe version is hex **CC9966**. A complement of this color would be **18.4009, 17.8283, 44.5907**, and the grayscale version is **29.9669, 31.5275, 34.3334**.

A 20% lighter version of the original color is **60.8259, 63.2183, 33.8074**, and **13.1258, 13.4854, 4.0090** is the 20% darker color. If you saturate the color by 10%, you get **29.7221, 30.3589, 10.2886**, and if you desaturate by 10%, it is **32.9598, 34.4351, 18.7648**.

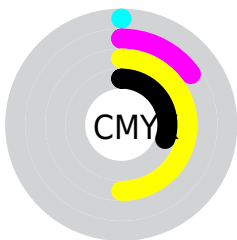
Distribution



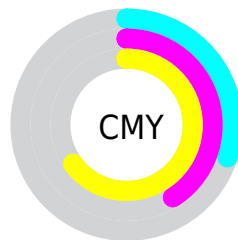
- Red (70%)
- Green (59%)
- Blue (35%)



- Red (50%)
- Yellow (70%)
- Blue (35%)



- Cyan (0%)
- Magenta (15%)
- Yellow (50%)
- Black (30%)





- Cyan (30%)
- Magenta (41%)
- Yellow (65%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 31.2299, 32.3195, 14.0435 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 31.2299, 32.3195, 14.0435 by changing the saturation by 10% instead.


 31.2299, 32.3195,
14.0435


 31.2299, 32.3195,
14.0435

299.4041,
312.5721, 228.9391


 20.9267, 21.6057,
8.0118


 60.9752, 63.3116,
33.8844

 13.1826, 13.5674,
4.0146


 81.1480, 84.3587,
48.5308


 7.6322, 7.8204,
1.6334


 105.3414,
109.6190, 66.8857

 3.9104, 3.9803,
0.3145

 133.9207,
139.4768, 89.3679

 1.6515, 1.6625,
0.0000

 167.2512,
174.3167, 116.3958

 0.4256, 0.3992,
0.0000

205.6984,

 0.0000, 0.0000,

214.5229, 148.3879

0.0000

249.6276,
260.4799, 185.7628

■ 31.2299, 32.3195,
14.0435

■ 31.2299, 32.3195,
14.0435

■ 29.7221, 30.3589,
10.2886

■ 32.9598, 34.4351,
18.7648

■ 28.4202, 28.5423,
7.4281

■ 34.9220, 36.7068,
24.5135

■ 27.3096, 26.8642,
5.3833

■ 37.1285, 39.1416,
31.3478

■ 26.3718, 25.3163,
4.0604

■ 39.5901, 41.7445,
39.3212

■ 25.5689, 23.8826,
3.2622

■ 42.3166, 44.5203,
48.4834

■ 25.5688, 23.8824,
3.2622

■ 45.3173, 47.4735,
58.8811

■ 48.6011, 50.6083,
70.5588

■ 52.1765, 53.9288,
83.5584

■ 56.0514, 57.4391,
97.9202

Harmonies

Analogous

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



36.3313, 32.3195, 16.6016



31.2299, 32.3195, 14.0435



26.5062, 32.3195, 15.7348

Triad

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



31.2299, 32.3195, 14.0435



22.8351, 32.3195, 49.4319



39.6299, 32.3195, 52.6628

Complementary

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



31.2299, 32.3195, 14.0435



18.4009, 17.8283, 44.5907

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.



35.3555, 32.3195, 66.3385



31.2299, 32.3195, 14.0435



25.7161, 32.3195, 64.1414

Square

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



31.2299, 32.3195, 14.0435



21.9855, 32.3195, 33.7545



30.2131, 32.3195, 71.0269



41.5036, 32.3195, 36.6666

Rectangle

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



31.2299, 32.3195, 14.0435



24.1334, 32.3195, 19.3951



30.2131, 32.3195, 71.0269



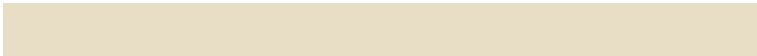
38.4047, 32.3195, 57.8351

Sweetspot

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



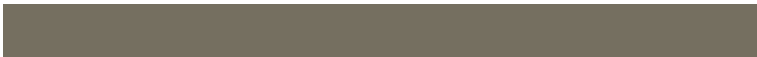
31.2307, 32.3210, 14.0442



69.3874, 73.1797, 63.4371



25.1543, 17.8987, 19.0156



15.1695, 15.9968, 13.3995



86.6293, 91.1408, 99.2523



17.0014, 17.8868, 19.4787

Same Dimension

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



31.2307, 32.3210, 14.0442



53.6370, 54.6997, 18.0453



32.5597, 40.2103, 15.4969



8.9752, 9.4628, 9.0060



18.3521, 17.2028, 2.3532



0.6259, 0.6381, 0.0902

Inverse Universe

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



18.4009, 17.8283, 44.5907



27.7397, 25.4891, 79.8390



17.4715, 13.3820, 43.7815



8.2452, 8.6366, 10.7388



6.7428, 4.2859, 30.6089



0.2649, 0.2403, 0.9807

Previews

White Background



This preview shows how the XYZ color 31.2299, 32.3195, 14.0435 looks on a white background.

Color Contrast Check

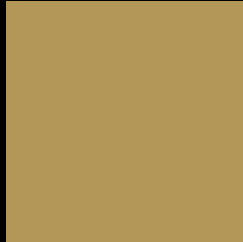
Large Text (above 18pt) WCAG AA × Fail

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 31.2299, 32.3195, 14.0435 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 31.2299, 32.3195, 14.0435

Background



This preview shows how black text looks on a background with the XYZ color 31.2299, 32.3195, 14.0435.



This preview shows how white text looks on a background with the XYZ color 31.2299, 32.3195,

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

31.2299, 32.3195, 14.0435

Protanopia

29.7633, 32.2844, 14.3357

Deuteranopia

33.0182, 32.2970, 14.1666



Tritanopia

35.4224, 32.1684, 34.9140

Trichromacy



Original Color

31.2299, 32.3195, 14.0435

Protanomaly

30.2500, 32.2913, 14.3114

Deuteranomaly

32.2025, 32.1083, 14.1731

Tritanomaly

33.5996, 32.1146, 25.5469

Monochromacy



Original Color

31.2299, 32.3195, 14.0435

Achromatopsia

29.8446, 31.3989, 34.1934

Achromatomaly

29.8886, 31.6185, 25.2966

CSS Examples

Text

The CSS property to change the color of the text to XYZ 31.2299, 32.3195, 14.0435 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(178, 151, 89)` looks like.

```
.text, #text, p{  
    color:rgb(178, 151, 89)  
}
```

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(178, 151, 89) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(178, 151, 89) }
```

Border

The CSS property to change the border of an element to XYZ 31.2299, 32.3195, 14.0435 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(178, 151, 89) }
```


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

```
.border{ border-color:rgb(178, 151, 89) }
```

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

Here you see how a box with a 4 pixel `rgb(178, 151, 89)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(178, 151, 89); -webkit-box-  
shadow:4px 4px 4px 4px rgb(178, 151, 89);  
box-shadow:4px 4px 4px 4px rgb(178, 151,  
89) }
```

Background

The CSS property to change the background color of an element to XYZ 31.2299, 32.3195, 14.0435 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(178, 151, 89) }
```

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

```
.background{ background-color: rgb(178,  
151, 89) }
```

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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