

Converting Colors

XYZ(31.1196, 32.4468, 19.8617)

Have a look what the booklet for
XYZ(31.1196, 32.4468, 19.8617)
contains.

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Color

**XYZ(31.1661, 32.3970,
19.9398)**

Conversions

Conversions Part 1

Format	Color
Hex	AC9870
RGB	172, 152, 112
RGB Percent	67%, 60%, 44%
CMY	0.3255, 0.4039, 0.5608
CMYK	0.00, 0.12, 0.35, 0.33
HSL	40°, 27%, 56%
HSV	40°, 35%, 67%
XYZ	31.1661, 32.3970, 19.9398
YIQ	153.4200, 24.7600, -8.2000

Conversions

Conversions Part 2

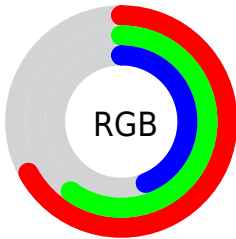
Format	Color
RYB	142, 172, 112
Decimal	11311216
CIELab	63.67, 1.38, 23.79
CIELCh	64, 23.826, 86.671
Yxy	32.3970, 0.3732, 0.3880
Android (android.graphics.Color)	4289501296 (0xFFAC9870)
YUV	153.4200, -20.4201, 16.2947
Hunter-Lab	56.9184, -1.8680, 19.0722

Details

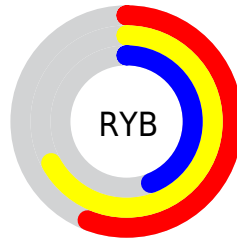
The XYZ color **31.1661, 32.3970, 19.9398** is a dark color, and the websafe version is hex **999966**. A complement of this color would be **22.3794, 22.9250, 42.2751**, and the grayscale version is **30.5408, 32.1313, 34.9910**.

A 20% lighter version of the original color is **60.7671, 63.3169, 44.1406**, and **13.1868, 13.5995, 6.7804** is the 20% darker color. If you saturate the color by 10%, you get **29.3907, 30.2351, 15.0661**, and if you desaturate by 10%, it is **33.1711, 34.7250, 25.7934**.

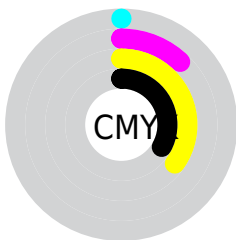
Distribution



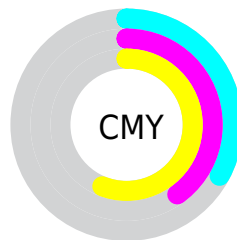
- Red (67%)
- Green (60%)
- Blue (44%)



- Red (56%)
- Yellow (67%)
- Blue (44%)



- Cyan (0%)
- Magenta (12%)
- Yellow (35%)
- Black (33%)



- Cyan (33%)
- Magenta (40%)
- Yellow (56%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 31.1661, 32.3970, 19.9398 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 31.1661, 32.3970, 19.9398 by changing the saturation by 10% instead.

■ 31.1661, 32.3970,
19.9398

■ 31.1661, 32.3970,
19.9398

299.1160,
312.9238, 264.1825

■ 20.8778, 21.6649,
12.1676

■ 60.8755, 63.4329,
44.1739

■ 13.1467, 13.6109,
6.7340

■ 81.0274, 84.5056,
61.4729

■ 7.6073, 7.8505,
3.2204

■ 105.1979,
109.7939, 82.7846

■ 3.8944, 3.9995,
1.2083

■ 133.7522,
139.6822, 108.5275

■ 1.6426, 1.6733,
0.0000

167.0559,
174.5550, 139.1202

■ 0.4199, 0.4063,
0.0000

205.4741,

■ 0.0000, 0.0000,

214.7965, 174.9813

0.0000

249.3724,
260.7913, 216.5292

■ 31.1661, 32.3970,
19.9398

■ 31.1661, 32.3970,
19.9398

■ 29.3907, 30.2351,
15.0661

■ 33.1711, 34.7250,
25.7934

■ 27.8314, 28.2295,
11.1150

■ 35.4134, 37.2197,
32.6757

■ 26.4767, 26.3756,
8.0263

■ 37.9035, 39.8874,
40.6348

■ 25.3133, 24.6671,
5.7320

■ 40.6503, 42.7326,
49.7149

■ 24.3254, 23.0967,
4.1534

■ 43.6623, 45.7597,
59.9581

■ 23.4943, 21.6556,
3.1944

■ 46.9476, 48.9727,
71.4039

■ 23.1074, 20.9590,
2.8276

■ 50.5139, 52.3758,
84.0902

■ 54.3685, 55.9727,
98.0532

■ 56.5596, 58.9835,
103.0117

Harmonies

Analogous

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



34.4500, 32.3970, 22.0532



31.1661, 32.3970, 19.9398



28.0041, 32.3970, 21.2829

Triad

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



31.1661, 32.3970, 19.9398



25.4127, 32.3970, 44.1724



36.4641, 32.3970, 46.3524

Complementary

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



31.1661, 32.3970, 19.9398



22.3794, 22.9250, 42.2751

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.



33.7599, 32.3970, 54.3517



31.1661, 32.3970, 19.9398



27.4033, 32.3970, 52.9420

Square

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



31.1661, 32.3970, 19.9398



24.8267, 32.3970, 34.2195



30.4217, 32.3970, 56.9564



37.6444, 32.3970, 36.3516

Rectangle

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



31.1661, 32.3970, 19.9398



26.3614, 32.3970, 24.1188



30.4217, 32.3970, 56.9564



35.6940, 32.3970, 49.4293

Sweetspot

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



31.1669, 32.3985, 19.9405



66.3132, 69.7589, 65.8220



26.9725, 22.0252, 24.6598



14.2794, 15.0184, 13.8845



82.5889, 86.8899, 94.6231



15.4596, 16.2647, 17.7123

Same Dimension

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



31.1669, 32.3985, 19.9405



53.9720, 55.6629, 29.0720



32.5775, 38.3563, 21.0161



8.4344, 8.8736, 8.4816



17.2477, 15.7009, 2.1215



0.5273, 0.5318, 0.0749

Inverse Universe

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



22.3794, 22.9250, 42.2751



35.5813, 35.8478, 75.8497



21.2669, 18.7048, 41.5192



7.7889, 8.1771, 10.1205



6.6879, 4.5097, 29.5625



0.2372, 0.2277, 0.8394

Previews

White Background



This preview shows how the XYZ color 31.1661, 32.3970, 19.9398 looks on a white background.

Color Contrast Check

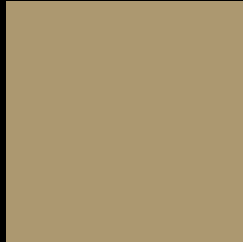
Large Text (above 18pt) WCAG AA × Fail

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 31.1661, 32.3970, 19.9398 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

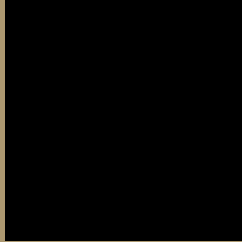
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

XYZ 31.1661, 32.3970, 19.9398

Background



This preview shows how black text looks on a background with the XYZ color 31.1661, 32.3970, 19.9398.



This preview shows how white text looks on a background with the XYZ color 31.1661, 32.3970, 19.9398.

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

31.1661, 32.3970, 19.9398

Protanopia

30.2621, 32.4104, 20.2836

Deuteranopia

33.0990, 32.4393, 20.1397



Tritanopia

34.4961, 32.3392, 36.3222

Trichromacy



Original Color

31.1661, 32.3970, 19.9398

Protanomaly

30.5203, 32.2996, 20.2486

Deuteranomaly

32.3185, 32.2709, 20.1483

Tritanomaly

33.0768, 32.2169, 29.6744

Monochromacy



Original Color

31.1661, 32.3970, 19.9398

Achromatopsia

30.2779, 31.8547, 34.6897

Achromatomaly

30.4759, 32.0910, 28.6327

CSS Examples

Text

The CSS property to change the color of the text to XYZ 31.1661, 32.3970, 19.9398 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(172, 152, 112)` looks like.

```
.text, #text, p{  
    color:rgb(172, 152, 112)  
}
```

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(172, 152, 112) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(172, 152, 112) }
```

Border

The CSS property to change the border of an element to XYZ 31.1661, 32.3970, 19.9398 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(172, 152, 112) }
```


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

```
.border{ border-color:rgb(172, 152, 112) }
```

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

Here you see how a box with a 4 pixel rgb(172, 152, 112) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(172, 152, 112); -webkit-box-  
shadow:4px 4px 4px 4px rgb(172, 152, 112);  
box-shadow:4px 4px 4px 4px rgb(172, 152,  
112) }
```

Background

The CSS property to change the background color of an element to XYZ 31.1661, 32.3970, 19.9398 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(172, 152, 112) }
```

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

```
.background{ background-color: rgb(172,  
152, 112) }
```

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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