

Converting Colors

XYZ(31.3610, 37.8194, 22.4677)

Have a look what the booklet for
XYZ(31.3610, 37.8194, 22.4677)
contains.

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Color

**XYZ(31.2898, 37.6594,
22.4495)**

Conversions

Conversions Part 1

Format	Color
Hex	9AAC75
RGB	154, 172, 117
RGB Percent	60%, 67%, 46%
CMY	0.3961, 0.3255, 0.5412
CMYK	0.10, 0.00, 0.32, 0.33
HSL	80°, 25%, 57%
HSV	80°, 32%, 67%
XYZ	31.2898, 37.6594, 22.4495
YIQ	160.3480, 6.9270, -20.9210

Conversions

Conversions Part 2

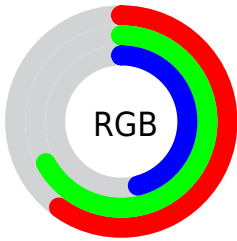
Format	Color
RYB	117, 172, 135
Decimal	10136693
CIELab	67.77, -15.83, 26.28
CIELCh	68, 30.676, 121.066
Yxy	37.6594, 0.3423, 0.4120
Android (android.graphics.Color)	4288326773 (0xFF9AAC75)
YUV	160.3480, -21.3706, -5.5672
Hunter-Lab	61.3673, -16.3795, 21.2675

Details

The XYZ color **31.2898, 37.6594, 22.4495** is a dark color, and the websafe version is hex **999966**. A complement of this color would be **23.8009, 20.8531, 41.8024**, and the grayscale version is **33.6684, 35.4218, 38.5743**.

A 20% lighter version of the original color is **61.0193, 71.3958, 48.5949**, and **13.2393, 16.6751, 7.9897** is the 20% darker color. If you saturate the color by 10%, you get **29.3237, 36.7533, 17.5548**, and if you desaturate by 10%, it is **33.4939, 38.6690, 28.3268**.

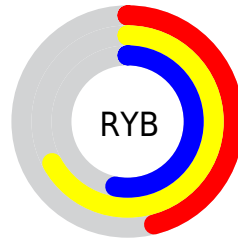
Distribution



Red (60%)

Green (67%)

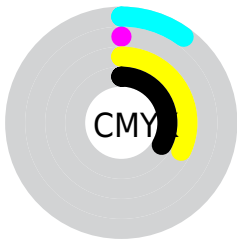
Blue (46%)



Red (46%)

Yellow (67%)

Blue (53%)

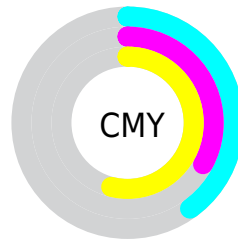


Cyan (10%)

Magenta (0%)

Yellow (32%)

Black (33%)



Cyan (40%)

Magenta (33%)

Yellow (54%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 31.2898, 37.6594, 22.4495 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 31.2898, 37.6594, 22.4495 by changing the saturation by 10% instead.

■ 31.2898, 37.6594,
22.4495

■ 31.2898, 37.6594,
22.4495

299.6743,
336.1566, 277.9145

■ 20.9725, 25.7184,
13.9861

■ 61.0688, 71.5858,
48.3995

■ 13.2163, 16.6131,
7.9724

■ 81.2612, 94.3400,
66.7231

■ 7.6557, 9.9590,
3.9897

■ 105.4761,
121.4674, 89.1706

■ 3.9254, 5.3718,
1.6197

134.0787,
153.3525, 116.1605

■ 1.6600, 2.4670,
0.3048

167.4345,
190.3795, 148.1113

■ 0.4310, 0.8601,
0.0000

205.9088,

■ 0.0000, 0.0000,

232.9330, 185.4415

0.0000

249.8670,
281.3972, 228.5697

■ 31.2898, 37.6594,
22.4495

■ 31.2898, 37.6594,
22.4495

■ 29.3237, 36.7533,
17.5548

■ 33.4939, 38.6690,
28.3268

■ 27.5819, 35.9414,
13.5868

■ 35.9433, 39.7814,
35.2341

■ 26.0536, 35.2206,
10.4872

■ 38.6484, 41.0020,
43.2182

■ 24.7254, 34.5853,
8.1905

■ 41.6179, 42.3344,
52.3228

■ 23.5825, 34.0297,
6.6218

■ 44.8605, 43.7821,
62.5888

■ 22.6073, 33.5465,
5.6920

■ 48.3839, 45.3484,
74.0551

■ 21.9162, 33.1992,
5.2530

■ 52.1961, 47.0364,
86.7591

■ 56.3042, 48.8491,
100.7361

■ 57.8899, 49.6592,
101.1418

Harmonies

Analogous

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



35.6246, 37.6594, 20.0366



31.2898, 37.6594, 22.4495



28.3889, 37.6594, 29.6188

Triad

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



31.2898, 37.6594, 22.4495



31.5594, 37.6594, 68.3845



45.7122, 37.6594, 40.5203

Complementary

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



31.2898, 37.6594, 22.4495



23.8009, 20.8531, 41.8024

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.



44.3867, 37.6594, 54.9882



31.2898, 37.6594, 22.4495



35.9642, 37.6594, 73.0674

Square

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



31.2898, 37.6594, 22.4495



28.5346, 37.6594, 56.0189



40.7112, 37.6594, 67.7029



44.1910, 37.6594, 28.9459

Rectangle

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



31.2898, 37.6594, 22.4495



27.5171, 37.6594, 37.0798



40.7112, 37.6594, 67.7029



45.5839, 37.6594, 45.1972

Sweetspot

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



31.2908, 37.6611, 22.4503



66.0507, 72.5490, 66.3744



28.8083, 27.2218, 20.5662



14.2150, 15.7035, 14.0202



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.



31.2908, 37.6611, 22.4503



54.3249, 67.1957, 34.5820



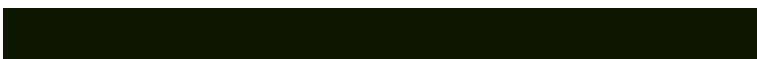
26.7295, 35.3096, 22.2368



8.4040, 9.1969, 8.5456



16.3679, 24.7350, 3.9117



0.5096, 0.7161, 0.1114

Inverse Universe

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



23.8009, 20.8531, 41.8024



38.7049, 32.1258, 74.9667



28.6924, 23.3748, 42.0313



7.8166, 7.8798, 10.0617



6.8199, 2.8757, 29.2401



0.2482, 0.1101, 0.8162

Previews

White Background



This preview shows how the XYZ color 31.2898, 37.6594, 22.4495 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 31.2898, 37.6594, 22.4495 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

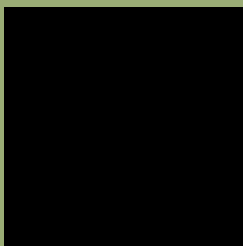
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

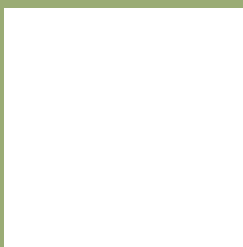
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 31.2898, 37.6594, 22.4495

Background



This preview shows how black text looks on a background with the XYZ color 31.2898, 37.6594, 22.4495.



This preview shows how white text looks on a background with the XYZ color 31.2898, 37.6594,

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

31.2898, 37.6594, 22.4495

Protanopia

34.8525, 37.5901, 21.3383

Deuteranopia

38.1227, 37.4119, 22.9812



Tritanopia

36.1116, 37.4066, 46.9119

Trichromacy



Original Color

31.2898, 37.6594, 22.4495

Protanomaly

33.4593, 37.6781, 21.7288

Deuteranomaly

35.2494, 37.2296, 22.7810

Tritanomaly

34.0332, 37.3749, 36.4307

Monochromacy



Original Color

31.2898, 37.6594, 22.4495

Achromatopsia

33.4132, 35.1533, 38.2819

Achromatomaly

32.4101, 35.8336, 31.5939

CSS Examples

Text

The CSS property to change the color of the text to XYZ 31.2898, 37.6594, 22.4495 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(154, 172, 117)` looks like.

```
.text, #text, p{  
    color:rgb(154, 172, 117)  
}
```

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(154, 172, 117) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(154, 172, 117) }
```

Border

The CSS property to change the border of an element to XYZ 31.2898, 37.6594, 22.4495 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(154, 172, 117) }
```


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

```
.border{ border-color:rgb(154, 172, 117) }
```

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

Here you see how a box with a 4 pixel `rgb(154, 172, 117)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(154, 172, 117); -webkit-box-  
shadow:4px 4px 4px 4px rgb(154, 172, 117);  
box-shadow:4px 4px 4px 4px rgb(154, 172,  
117) }
```

Background

The CSS property to change the background color of an element to XYZ 31.2898, 37.6594, 22.4495 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(154, 172, 117) }
```

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

```
.background{ background-color: rgb(154,  
172, 117) }
```

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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