

Converting Colors

XYZ(31.7770, 37.0253, 28.5623)

Have a look what the booklet for
XYZ(31.7770, 37.0253, 28.5623)
contains.

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Color

**XYZ(31.6980, 36.8975,
28.3729)**

Conversions

Conversions Part 1

Format	Color
Hex	99A987
RGB	153, 169, 135
RGB Percent	60%, 66%, 53%
CMY	0.4000, 0.3372, 0.4706
CMYK	0.09, 0.00, 0.20, 0.34
HSL	88°, 17%, 60%
HSV	88°, 20%, 66%
XYZ	31.6980, 36.8975, 28.3729
YIQ	160.3400, 1.3780, -13.9660

Conversions

Conversions Part 2

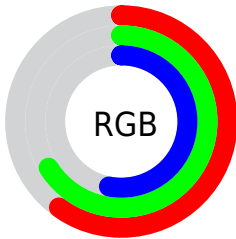
Format	Color
RYB	135, 169, 151
Decimal	10070407
CIELab	67.20, -11.88, 15.70
CIElCh	67, 19.693, 127.116
Yxy	36.8975, 0.3269, 0.3805
Android (android.graphics.Color)	4288260487 (0xFF99A987)
YUV	160.3400, -12.4926, -6.4372
Hunter-Lab	60.7433, -13.1532, 14.8263

Details

The XYZ color **31.6980, 36.8975, 28.3729** is a light color, and the websafe version is hex **999966**. A complement of this color would be **28.5893, 26.7728, 41.1989**, and the grayscale version is **33.6268, 35.3780, 38.5266**.

A 20% lighter version of the original color is **61.7452, 70.3520, 57.9019**, and **13.4805, 16.2032, 11.0114** is the 20% darker color. If you saturate the color by 10%, you get **29.1500, 35.7118, 22.5277**, and if you desaturate by 10%, it is **34.5370, 38.2136, 35.2193**.

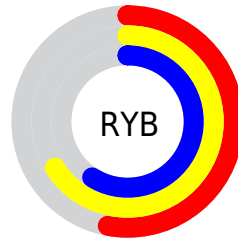
Distribution



Red (60%)

Green (66%)

Blue (53%)



Red (53%)

Yellow (66%)

Blue (59%)

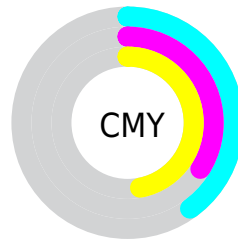


Cyan (9%)

Magenta (0%)

Yellow (20%)

Black (34%)



Cyan (40%)

Magenta (34%)

Yellow (47%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 31.6980, 36.8975, 28.3729 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 31.6980, 36.8975, 28.3729 by changing the saturation by 10% instead.

■ 31.6980, 36.8975,
28.3729

■ 31.6980, 36.8975,
28.3729

301.5110,
332.8665, 308.2123

■ 21.2854, 25.1281,
18.3655

■ 61.7057, 70.4151,
58.1095

■ 13.4464, 16.1725,
11.0405

■ 82.0316, 92.9322,
78.6757

■ 7.8158, 9.6463,
5.9796

■ 106.3925,
119.8005, 103.5986

■ 4.0281, 5.1651,
2.7641

135.1538,
151.4047, 133.2968

■ 1.7180, 2.3445,
0.9755

168.6810,
188.1289, 168.1887

■ 0.4675, 0.7971,
0.0000

207.3394,

■ 0.0000, 0.0000,

230.3578, 208.6929

0.0000

251.4943,
278.4755, 255.2279

■ 31.6980, 36.8975,
28.3729

■ 31.6980, 36.8975,
28.3729

■ 29.1500, 35.7118,
22.5277

■ 34.5370, 38.2136,
35.2193

■ 26.8792, 34.6471,
17.6344

■ 37.6743, 39.6595,
43.1082

■ 24.8750, 33.7002,
13.6430

■ 41.1204, 41.2410,
52.0818

■ 23.1248, 32.8657,
10.4982

■ 44.8845, 42.9619,
62.1790

■ 21.6149, 32.1380,
8.1384

■ 48.9754, 44.8259,
73.4368

■ 20.3298, 31.5106,
6.4939

■ 53.4015, 46.8366,
85.8906

■ 19.2516, 30.9760,
5.4823

■ 58.1709, 48.9974,
99.5743

■ 18.3530, 30.5242,
4.9245

■ 60.7453, 50.2931,
101.1137

■ 63.1618, 51.5389,
101.2268

Harmonies

Analogous

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



34.3591, 36.8975, 25.8918



31.6980, 36.8975, 28.3729



30.0121, 36.8975, 34.0784

Triad

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



31.6980, 36.8975, 28.3729



32.8710, 36.8975, 57.4278



41.1208, 36.8975, 38.1601

Complementary

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



31.6980, 36.8975, 28.3729



28.5893, 26.7728, 41.1989

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.



40.6664, 36.8975, 46.9588



31.6980, 36.8975, 28.3729



35.7905, 36.8975, 58.9315

Square

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



31.6980, 36.8975, 28.3729



30.6618, 36.8975, 51.0093



38.6730, 36.8975, 54.8659



39.8815, 36.8975, 30.9951

Rectangle

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



31.6980, 36.8975, 28.3729



29.6106, 36.8975, 39.3484



38.6730, 36.8975, 54.8659



41.1622, 36.8975, 41.0133

Sweetspot

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



31.6990, 36.8991, 28.3737



64.0394, 69.4450, 68.5120



31.7819, 32.2759, 27.4770



13.8836, 15.1018, 14.7469



80.6108, 84.8088, 92.3568



14.7206, 15.4872, 16.8656

Same Dimension

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



31.6990, 36.8991, 28.3737



54.7383, 65.1369, 46.0862



28.7372, 35.3723, 28.2351



7.8016, 8.5958, 8.0372



13.7400, 22.7805, 3.6729



0.3926, 0.5843, 0.0921

Inverse Universe

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



28.5893, 26.7728, 41.1989



48.1802, 43.7796, 73.1360



31.9469, 28.5037, 41.3561



7.4549, 7.4671, 9.4667



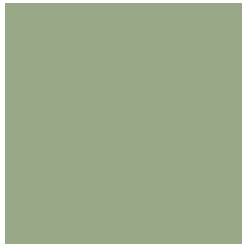
7.8351, 3.4226, 28.2232



0.2500, 0.1139, 0.6895

Previews

White Background



This preview shows how the XYZ color 31.6980, 36.8975, 28.3729 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 31.6980, 36.8975, 28.3729 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

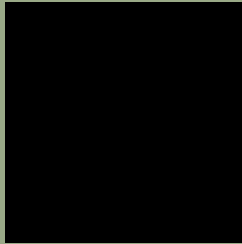
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

XYZ 31.6980, 36.8975, 28.3729

Background



This preview shows how black text looks on a background with the XYZ color 31.6980, 36.8975, 28.3729.



This preview shows how white text looks on a background with the XYZ color 31.6980, 36.8975,

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

31.6980, 36.8975, 28.3729

Protanopia

34.4956, 36.7446, 27.1041

Deuteranopia

37.3114, 36.6115, 28.7671



Tritanopia

35.2317, 36.6999, 46.3012

Trichromacy



Original Color

31.6980, 36.8975, 28.3729

Protanomaly

33.4147, 36.7107, 27.5150

Deuteranomaly

34.8680, 36.3813, 28.4771

Tritanomaly

33.7928, 36.6516, 39.0116

Monochromacy



Original Color

31.6980, 36.8975, 28.3729

Achromatopsia

33.4132, 35.1533, 38.2819

Achromatomaly

32.5877, 35.5968, 34.4315

CSS Examples

Text

The CSS property to change the color of the text to XYZ 31.6980, 36.8975, 28.3729 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(153, 169, 135)` looks like.

```
.text, #text, p{  
    color:rgb(153, 169, 135)  
}
```

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(153, 169, 135) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(153, 169, 135) }
```

Border

The CSS property to change the border of an element to XYZ 31.6980, 36.8975, 28.3729 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(153, 169, 135) }
```


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

```
.border{ border-color:rgb(153, 169, 135) }
```

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

Here you see how a box with a 4 pixel `rgb(153, 169, 135)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(153, 169, 135); -webkit-box-  
shadow:4px 4px 4px 4px rgb(153, 169, 135);  
box-shadow:4px 4px 4px 4px rgb(153, 169,  
135) }
```

Background

The CSS property to change the background color of an element to XYZ 31.6980, 36.8975, 28.3729 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(153, 169, 135) }
```

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

```
.background{ background-color: rgb(153,  
169, 135) }
```

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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