

Converting Colors

CIELCh(46, 13.312, 31.109)

Have a look what the booklet for
CIELCh(46, 13.312, 31.109) contains.

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Color

CIELCh(46, 13.312, 31.109)

Conversions

Conversions Part 1

Format	Color
Hex	846662
RGB	132, 102, 98
RGB Percent	52%, 40%, 38%
CMY	0.4826, 0.6003, 0.6160
CMYK	0.00, 0.23, 0.26, 0.48
HSL	7°, 15%, 45%
HSV	7°, 26%, 52%
XYZ	16.4495, 15.2687, 13.6180
YIQ	110.5140, 19.1640, 5.1160

Conversions

Conversions Part 2

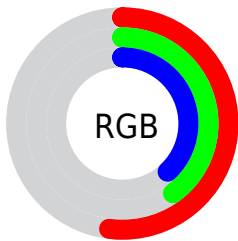
Format	Color
R _Y B	132, 103, 98
Decimal	8676962
CIE Lab	46.00, 11.40, 6.88
CIE LCh	46, 13.312, 31.109
Yxy	15.2687, 0.3628, 0.3368
Android (android.graphics.Color)	4286867042 (0xFF846662)
YUV	110.5140, -6.1694, 18.8432
Hunter-Lab	39.0751, 6.7620, 6.6896

Details

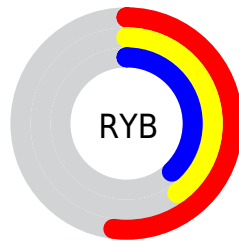
The CIELCh color **46, 13.312, 31.109** is a dark color, and the websafe version is hex **996666**. A complement of this color would be **51, 11.199, 210.409**, and the grayscale version is **47, 0.006, 296.813**.

A 20% lighter version of the original color is **66, 13.420, 29.977**, and **26, 13.415, 30.096** is the 20% darker color. If you saturate the color by 10%, you get **43, 19.226, 31.703**, and if you desaturate by 10%, it is **49, 7.825, 30.704**.

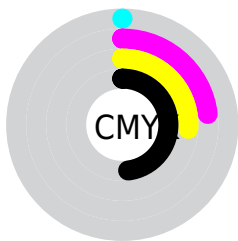
Distribution



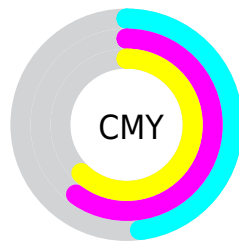
- Red (52%)
- Green (40%)
- Blue (38%)



- Red (52%)
- Yellow (40%)
- Blue (38%)



- Cyan (0%)
- Magenta (23%)
- Yellow (26%)
- Black (48%)



- Cyan (48%)
- Magenta (60%)
- Yellow (62%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 46, 13.312, 31.109 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 CIELCh color 46, 13.312, 31.109 by changing the saturation by 10% instead.

■ 46, 13.312, 31.109

■ 46, 13.312, 31.109

■ 100, 13.312,
31.109

■ 36, 13.312, 31.109

■ 66, 13.312, 31.109

■ 26, 13.312, 31.109

■ 76, 13.312, 31.109

■ 16, 13.312, 31.109

■ 86, 13.312, 31.109

■ 6, 13.312, 31.109

■ 96, 13.312, 31.109

■ 0, 13.312, 31.109

■ 46, 13.312, 31.109

■ 46, 13.312, 31.109

■ 43, 19.226, 31.703

■ 49, 7.825, 30.704

■ 39, 25.565, 32.523

■ 53, 2.750, 30.362

36, 32.287, 33.632

57, 1.941, 210.584

34, 39.299, 35.074

60, 6.286, 210.385

31, 46.423, 36.839

64, 10.320,
210.369

29, 53.313, 38.779

68, 14.079,
210.413

28, 59.120, 40.307

27, 61.204, 40.959

71, 17.596,
210.497

75, 20.899,
210.607

79, 24.016,
210.737

Harmonies

Complementary

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



46, 13.312, 31.109



51, 11.199, 210.409

Rectangle

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



46, 13.312, 31.109



46, 13.312, 81.109



46, 13.312, 211.109



46, 13.312, 261.109

Sweetspot

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



46, 13.311, 31.116



66, 4.757, 30.455



46, 22.255, 329.241



34, 3.426, 30.499



86, 0.010, 296.813



37, 0.005, 296.813

Same Dimension

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



46, 13.311, 31.116



56, 20.255, 31.439



51, 13.457, 83.691



26, 2.737, 30.487



27, 60.464, 40.891



0, 0.634, 30.412

Inverse Universe

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



51, 11.199, 210.409



65, 16.287, 210.499



46, 13.166, 270.678



27, 2.586, 210.426



44, 26.820, 217.111



0, 0.634, 210.431

Previews

White Background



This preview shows how the CIELCh color 46, 13.312, 31.109 looks on a white background.

Color Contrast Check

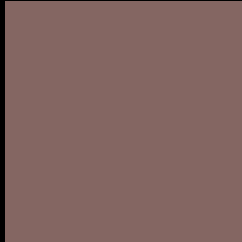
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

Black Background



This preview shows how the CIE LCh color 46, 13.312, 31.109 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

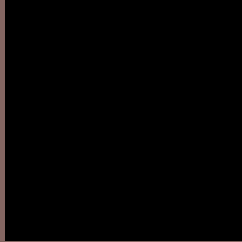
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 46, 13.312, 31.109

Background



This preview shows how black text looks on a background with the CIELCh color 46, 13.312, 31.109.

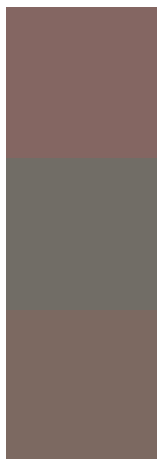


This preview shows how white text looks on a background with the CIELCh color 46, 13.312, 31.109.

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

46, 13.312, 31.109

Protanopia

46, 4.459, 87.430

Deuteranopia

46, 9.540, 49.808



Tritanopia
46, 14.634, 2.602

Trichromacy



Original Color
46, 13.312, 31.109

Protanomaly
46, 6.666, 46.261

Deuteranomaly
46, 10.874, 42.718

Tritanomaly
46, 13.758, 13.837

Monochromacy



Original Color
46, 13.312, 31.109

Achromatopsia
46, 0.006, 296.813

Achromatomaly
46, 4.634, 27.194

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 46, 13.312, 31.109 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(132, 102, 98)` looks like.

```
.text, #text, p{  
    color:rgb(132, 102, 98)  
}
```

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(132, 102, 98) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(132, 102, 98) }
```

Border

The CSS property to change the border of an element to CIELCh 46, 13.312, 31.109 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(132, 102, 98) }
```

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

```
.border{ border-color:rgb(132, 102, 98) }
```

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

Here you see how a box with a 4 pixel `rgb(132, 102, 98)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(132, 102, 98); -webkit-box-  
shadow:4px 4px 4px 4px rgb(132, 102, 98);  
box-shadow:4px 4px 4px 4px rgb(132, 102,  
98) }
```

Background

The CSS property to change the background color of an element to CIELCh 46, 13.312, 31.109 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(132, 102, 98) }
```

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

```
.background{ background-color: rgb(132,  
102, 98) }
```

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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