

Converting Colors

CIELCh(46, 31.681, 104.063)

Have a look what the booklet for
CIELCh(46, 31.681, 104.063)
contains.

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Color

CIELCh(46, 31.604, 104.012)

Conversions

Conversions Part 1

Format	Color
Hex	716F38
RGB	113, 111, 56
RGB Percent	44%, 44%, 22%
CMY	0.5554, 0.5633, 0.7791
CMYK	0.00, 0.02, 0.50, 0.56
HSL	58°, 34%, 33%
HSV	58°, 50%, 44%
XYZ	13.3011, 15.2687, 6.0297
YIQ	105.3280, 18.8470, -16.6810

Conversions

Conversions Part 2

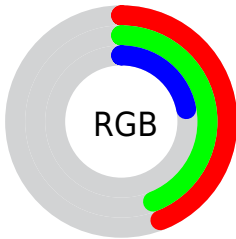
Format	Color
RYB	58, 113, 56
Decimal	7434040
CIELab	46.00, -7.65, 30.66
CIELCh	46, 31.604, 104.012
Yxy	15.2687, 0.3844, 0.4413
Android (android.graphics.Color)	4285624120 (0xFF716F38)
YUV	105.3280, -24.3187, 6.7283
Hunter-Lab	39.0751, -7.6203, 18.2035

Details

The CIELCh color **46, 31.604, 104.012** is a dark color, and the websafe version is hex **666633**. A complement of this color would be **27, 35.712, 295.738**, and the grayscale version is **45, 0.006, 296.813**.

A 20% lighter version of the original color is **66, 32.074, 104.464**, and **26, 31.617, 104.667** is the 20% darker color. If you saturate the color by 10%, you get **46, 37.242, 103.152**, and if you desaturate by 10%, it is **46, 25.606, 104.928**.

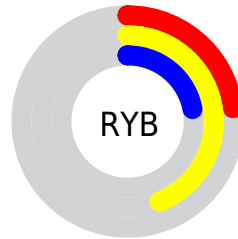
Distribution



Red (44%)

Green (44%)

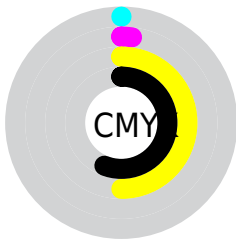
Blue (22%)



Red (23%)

Yellow (44%)

Blue (22%)

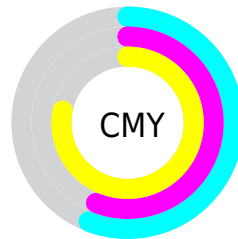


Cyan (0%)

Magenta (2%)

Yellow (50%)

Black (56%)



Cyan (56%)


Magenta (56%)


Yellow (78%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 46, 31.604, 104.012 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, 31.604, 104.012 by changing the saturation by 10% instead.


 46, 31.604,
104.012


 46, 31.604,
104.012


 100, 31.604,
104.012


 36, 31.604,
104.012

 66, 31.604,
104.012


 26, 31.604,
104.012

 76, 31.604,
104.012

 16, 31.604,
104.012

 86, 31.604,
104.012

 6, 31.604, 104.012

 96, 31.604,
104.012

 0, 31.604, 104.012

 46, 31.604,

 46, 31.604,

104.012

104.012

■ 46, 37.242,
103.152

■ 46, 25.606,
104.928

■ 46, 42.312,
102.367

■ 47, 19.388,
105.869

■ 45, 46.542,
101.686

■ 47, 13.043,
106.821

■ 45, 49.630,
101.138

■ 47, 6.632, 107.767

■ 45, 51.980,
100.684

■ 48, 0.193, 108.443

■ 48, 6.248, 289.633

■ 49, 12.674,
290.513

■ 49, 19.074,
291.363

■ 50, 25.440,

Harmonies

Complementary

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



46, 31.604, 104.012



27, 35.712, 295.738

Rectangle

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



46, 31.604, 104.012



46, 31.604, 154.012



46, 31.604, 284.012



46, 31.604, 334.012

Sweetspot

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



46, 31.605, 104.015



61, 11.992, 107.287



31, 27.184, 21.043



31, 8.127, 107.135



81, 0.010, 296.813



31, 0.005, 296.813

Same Dimension

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



46, 31.605, 104.015



59, 45.949, 103.047



45, 34.753, 125.030



23, 3.587, 107.890



47, 54.080, 100.671



92, 92.231, 100.542

Inverse Universe

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



27, 35.712, 295.738



31, 54.092, 298.058



29, 37.623, 309.942



21, 3.656, 289.640



12, 74.627, 305.580



32, 129.368, 305.993

Previews

White Background



This preview shows how the CIELCh color 46, 31.604, 104.012 looks on a white background.

Color Contrast Check

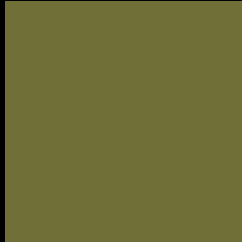
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

Black Background



This preview shows how the CIELCh color 46, 31.604, 104.012 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

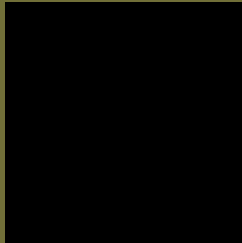
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 46, 31.604, 104.012

Background



This preview shows how black text looks on a background with the CIELCh color 46, 31.604, 104.012.



This preview shows how white text looks on a background with the CIELCh color 46, 31.604, 104.012.

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, 31.604, 104.012

Protanopia

46, 31.081, 96.145

Deuteranopia

46, 30.625, 79.259



Tritanopia
46, 7.462, 340.839

Trichromacy



Original Color
46, 31.604, 104.012

Protanomaly
46, 31.347, 98.832

Deuteranomaly
46, 30.558, 88.746

Tritanomaly
46, 9.910, 82.784

Monochromacy



Original Color
46, 31.604, 104.012

Achromatopsia
45, 0.006, 296.813

Achromatomaly
45, 11.838, 106.377

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 46, 31.604, 104.012 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(113, 111, 56)` looks like.

```
.text, #text, p{  
    color:rgb(113, 111, 56)  
}
```

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(113, 111, 56) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(113, 111, 56) }
```

Border

The CSS property to change the border of an element to CIELCh 46, 31.604, 104.012 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(113, 111, 56) }
```

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

```
.border{ border-color:rgb(113, 111, 56) }
```

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

Here you see how a box with a 4 pixel `rgb(113, 111, 56)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(113, 111, 56); -webkit-box-  
shadow:4px 4px 4px 4px rgb(113, 111, 56);  
box-shadow:4px 4px 4px 4px rgb(113, 111,  
56) }
```

Background

The CSS property to change the background color of an element to CIELCh 46, 31.604, 104.012 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(113, 111, 56) }
```

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

```
.background{ background-color: rgb(113,  
111, 56) }
```

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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