

Converting Colors

CIELCh(31, 1.284, 52.914)

Have a look what the booklet for
CIELCh(31, 1.284, 52.914) contains.

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Color

CIELCh(31, 1.468, 45.031)

Conversions

Conversions Part 1

Format	Color
Hex	4B4847
RGB	75, 72, 71
RGB Percent	29%, 28%, 28%
CMY	0.7045, 0.7162, 0.7202
CMYK	0.00, 0.04, 0.05, 0.70
HSL	15°, 3%, 29%
HSV	15°, 5%, 30%
XYZ	6.4197, 6.6515, 6.9674
YIQ	72.7830, 2.1090, 0.3250

Conversions

Conversions Part 2

Format	Color
RYB	75, 72, 71
Decimal	4933703
CIELab	31.00, 1.04, 1.04
CIELCh	31, 1.468, 45.031
Yxy	6.6515, 0.3204, 0.3319
Android (android.graphics.Color)	4283123783 (0xFF4B4847)
YUV	72.7830, -0.8790, 1.9443
Hunter-Lab	25.7905, -0.7018, 2.0359

Details

The CIELCh color **31, 1.468, 45.031** is a dark color, and the websafe version is hex **333333**. A complement of this color would be **31, 1.430, 225.876**, and the grayscale version is **31, 0.005, 296.813**.

A 20% lighter version of the original color is **51, 1.714, 39.175**, and **11, 1.254, 55.026** is the 20% darker color. If you saturate the color by 10%, you get **29, 4.386, 44.838**, and if you desaturate by 10%, it is **33, 1.255, 225.870**.

Distribution



Red (29%)

Green (28%)

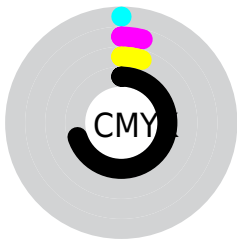
Blue (28%)



Red (29%)

Yellow (28%)

Blue (28%)

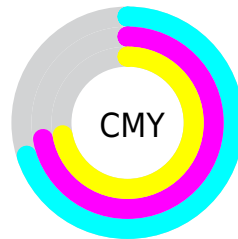


Cyan (0%)

Magenta (4%)

Yellow (5%)

Black (70%)



Cyan (70%)

Magenta (72%)

Yellow (72%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 31, 1.468, 45.031 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 31, 1.468, 45.031 by changing the saturation by 10% instead.

■ 31, 1.468, 45.031 ■ 31, 1.468, 45.031

■ 100, 1.468, 45.031 ■ 21, 1.468, 45.031

■ 51, 1.468, 45.031 ■ 11, 1.468, 45.031

■ 61, 1.468, 45.031 ■ 1, 1.468, 45.031

■ 71, 1.468, 45.031 ■ 0, 1.468, 45.031

■ 81, 1.468, 45.031

■ 91, 1.468, 45.031

■ 31, 1.468, 45.031 ■ 31, 1.468, 45.031

■ 29, 4.386, 44.838 ■ 33, 1.255, 225.870

■ 27, 7.519, 44.577 ■ 35, 3.802, 226.177

■ 25, 10.882, 44.391

■ 37, 6.191, 226.622

■ 23, 14.486, 44.310

■ 39, 8.440, 227.100

■ 22, 18.332, 44.357

■ 41, 10.564,
227.591

■ 20, 22.403, 44.544

■ 43, 12.578,
228.088

■ 19, 26.641, 44.844

■ 17, 30.322, 44.042

■ 45, 14.495,
228.585

■ 16, 33.371, 42.669

■ 47, 16.324,
229.077

■ 49, 18.077,
229.561

Harmonies

Complementary

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



31, 1.468, 45.031



31, 1.430, 225.876

Rectangle

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



31, 1.468, 45.031



31, 1.468, 95.031



31, 1.468, 225.031



31, 1.468, 275.031

Sweetspot

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



31, 1.468, 45.075



41, 0.672, 44.917



31, 2.609, 332.585



20, 0.376, 44.867



72, 0.009, 296.813



20, 0.004, 296.813

Same Dimension

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



31, 1.468, 45.075



40, 2.049, 45.067



32, 1.943, 96.628



15, 1.096, 45.068



22, 46.517, 44.705



52, 90.012, 44.863

Inverse Universe

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



31, 1.430, 225.876



40, 1.986, 225.893



31, 1.957, 277.849



15, 1.064, 225.890



30, 23.030, 243.487



66, 42.432, 247.042

Previews

White Background



This preview shows how the CIELCh color 31, 1.468, 45.031 looks on a white background.

Color Contrast Check

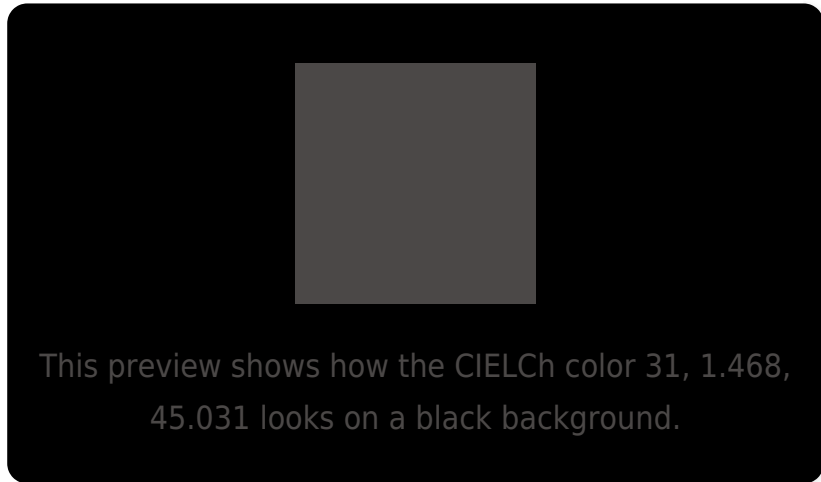
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

Black Background



Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

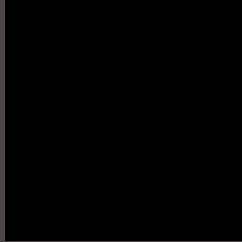
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

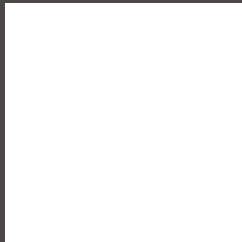
If you want to check with other color combinations, try the [Color Contrast Checker](#).

CIELCh 31, 1.468, 45.031

Background



This preview shows how black text looks on a background with the CIELCh color 31, 1.468, 45.031.

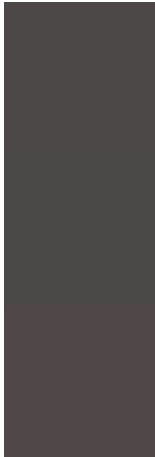


This preview shows how white text looks on a background with the CIELCh color 31, 1.468, 45.031.

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, 1.468, 45.031

Protanopia

31, 1.080, 55.190

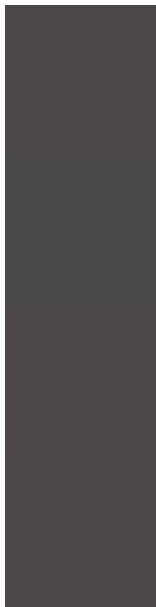
Deuteranopia

31, 4.068, 11.057



Tritanopia
31, 4.419, 320.091

Trichromacy



Original Color

31, 1.468, 45.031

Protanomaly

31, 1.080, 55.190

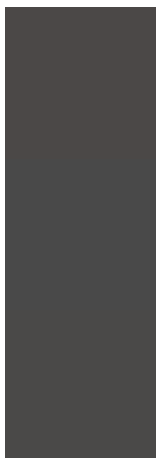
Deuteranomaly

31, 3.179, 8.334

Tritanomaly

31, 3.376, 330.848

Monochromacy



Original Color

31, 1.468, 45.031

Achromatopsia

31, 0.005, 296.813

Achromatomaly

31, 0.765, 74.892

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 31, 1.468, 45.031 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(75, 72, 71)` looks like.

```
.text, #text, p{  
    color:rgb(75, 72, 71)  
}
```

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(75, 72, 71) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(75, 72, 71) }
```

Border

The CSS property to change the border of an element to CIELCh 31, 1.468, 45.031 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(75, 72, 71) }
```

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

```
.border{ border-color:rgb(75, 72, 71) }
```

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

Here you see how a box with a 4 pixel `rgb(75, 72, 71)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(75, 72, 71); -webkit-box-  
shadow:4px 4px 4px 4px rgb(75, 72, 71);  
box-shadow:4px 4px 4px 4px rgb(75, 72, 71)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 31, 1.468, 45.031 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(75, 72, 71) }
```

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

```
.background{ background-color: rgb(75, 72,  
71) }
```

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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