

Converting Colors

CIELCh(31, 15.080, 109.198)

Have a look what the booklet for
CIELCh(31, 15.080, 109.198)
contains.

CIELCh(31, 15.049, 109.227)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	21
<i>Color Blindness Simulation</i>	24
<i>CSS Examples</i>	27

Color

CIELCh(31, 15.049, 109.227)

Conversions

Conversions Part 1

Format	Color
Hex	4A4B33
RGB	74, 75, 51
RGB Percent	29%, 29%, 20%
CMY	0.7114, 0.7075, 0.8015
CMYK	0.01, 0.00, 0.32, 0.71
HSL	63°, 19%, 25%
HSV	63°, 32%, 29%
XYZ	5.8693, 6.6515, 4.0615
YIQ	71.9650, 7.1080, -7.6760

Conversions

Conversions Part 2

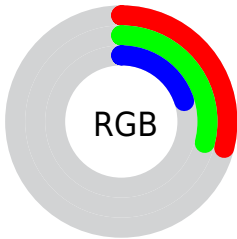
Format	Color
RYB	51, 75, 52
Decimal	4868915
CIELab	31.00, -4.96, 14.21
CIELCh	31, 15.049, 109.227
Yxy	6.6515, 0.3540, 0.4011
Android (android.graphics.Color)	4283058995 (0xFF4A4B33)
YUV	71.9650, -10.3357, 1.7847
Hunter-Lab	25.7905, -4.5107, 8.7164

Details

The CIELCh color **31, 15.049, 109.227** is a dark color, and the websafe version is hex **333333**. A complement of this color would be **22, 16.133, 295.078**, and the grayscale version is **30, 0.005, 296.813**.

A 20% lighter version of the original color is **51, 15.004, 109.873**, and **11, 14.760, 109.716** is the 20% darker color. If you saturate the color by 10%, you get **31, 19.580, 108.437**, and if you desaturate by 10%, it is **31, 10.420, 110.040**.

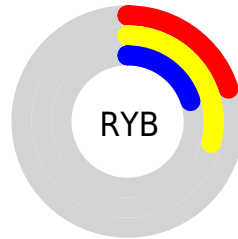
Distribution



Red (29%)

Green (29%)

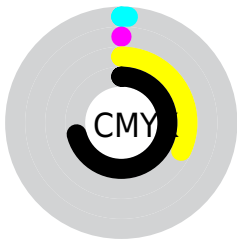
Blue (20%)



Red (20%)

Yellow (29%)

Blue (20%)

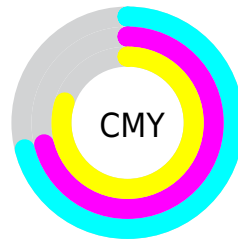


Cyan (1%)

Magenta (0%)

Yellow (32%)

Black (71%)



Cyan (71%)


Magenta (71%)


Yellow (80%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 31, 15.049, 109.227 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, 15.049, 109.227 by changing the saturation by 10% instead.


 31, 15.049,
109.227


 31, 15.049,
109.227

 100, 15.049,
109.227


 21, 15.049,
109.227

 51, 15.049,
109.227


 11, 15.049,
109.227


 61, 15.049,
109.227

 1, 15.049, 109.227

 71, 15.049,
109.227

 0, 15.049, 109.227

 81, 15.049,
109.227

 91, 15.049,
109.227

■ 31, 15.049,
109.227

■ 31, 15.049,
109.227

■ 31, 19.580,
108.437

■ 31, 10.420,
110.040

■ 31, 23.949,
107.679

■ 31, 5.731, 110.851

■ 31, 28.067,
106.980

■ 32, 1.012, 111.636

■ 30, 31.809,
106.371

■ 32, 3.718, 292.453

■ 30, 35.009,
105.887

■ 32, 8.446, 293.214

■ 30, 37.663,
105.525

■ 33, 13.160,
293.950

■ 30, 39.907,
105.202

■ 33, 17.855,
294.655

■ 33, 22.523,
295.328

■ 34, 27.161,

Harmonies

Complementary

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



31, 15.049, 109.227



22, 16.133, 295.078

Rectangle

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



31, 15.049, 109.227



31, 15.049, 159.227



31, 15.049, 289.227



31, 15.049, 339.227

Sweetspot

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



31, 15.050, 109.231



41, 5.860, 110.994



24, 11.339, 24.273



20, 3.943, 110.939



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, 15.050, 109.231



40, 22.536, 108.568



30, 16.282, 128.905



15, 2.689, 111.129



41, 49.515, 105.305



88, 89.620, 105.481

Inverse Universe

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



22, 16.133, 295.078



27, 24.694, 296.186



23, 16.897, 311.569



14, 2.740, 292.571



9, 68.007, 306.536



29, 123.377, 306.382

Previews

White Background



This preview shows how the CIELCh color 31, 15.049, 109.227 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



This preview shows how the CIELCh color 31, 15.049, 109.227 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

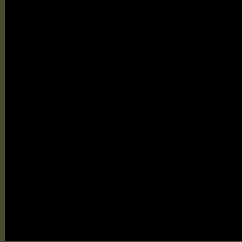
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

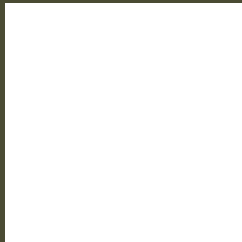
If you want to check with other color combinations, try the [Color Contrast Checker](#).

CIELCh 31, 15.049, 109.227

Background



This preview shows how black text looks on a background with the CIELCh color 31, 15.049, 109.227.

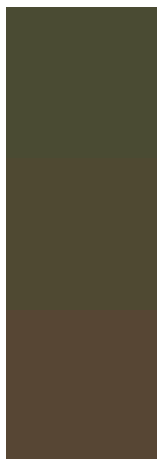


This preview shows how white text looks on a background with the CIELCh color 31, 15.049, 109.227.

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, 15.049, 109.227

Protanopia

31, 14.785, 96.063

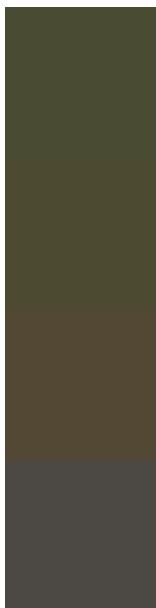
Deuteranopia

31, 14.266, 72.273



Tritanopia
31, 4.648, 324.798

Trichromacy



Original Color
31, 15.049, 109.227

Protanomaly
31, 15.140, 101.861

Deuteranomaly
31, 14.176, 87.539

Tritanomaly
31, 3.649, 79.799

Monochromacy



Original Color
31, 15.049, 109.227

Achromatopsia
31, 0.005, 296.813

Achromatomaly
31, 5.707, 109.114

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 31, 15.049, 109.227 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(74, 75, 51)` looks like.

```
.text, #text, p{  
    color:rgb(74, 75, 51)  
}
```

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(74, 75, 51) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(74, 75, 51) }
```

Border

The CSS property to change the border of an element to CIELCh 31, 15.049, 109.227 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(74, 75, 51) }
```

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

```
.border{ border-color:rgb(74, 75, 51) }
```

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

Here you see how a box with a 4 pixel `rgb(74, 75, 51)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(74, 75, 51); -webkit-box-  
shadow:4px 4px 4px 4px rgb(74, 75, 51);  
box-shadow:4px 4px 4px 4px rgb(74, 75, 51)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 31, 15.049, 109.227 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(74, 75, 51) }
```

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

```
.background{ background-color: rgb(74, 75,  
51) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor