

Converting Colors

CIELCh(18, 11.928, 106.587)

Have a look what the booklet for
CIELCh(18, 11.928, 106.587)
contains.

CIELCh(18, 12.211, 107.041)	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(18, 12.211, 107.041)

Conversions

Conversions Part 1

Format	Color
Hex	2D2D1B
RGB	45, 45, 27
RGB Percent	18%, 18%, 11%
CMY	0.8234, 0.8234, 0.8940
CMYK	0.00, 0.00, 0.40, 0.82
HSL	60°, 25%, 14%
HSV	60°, 40%, 18%
XYZ	2.2222, 2.5180, 1.4082
YIQ	42.9480, 5.7780, -5.5980

Conversions

Conversions Part 2

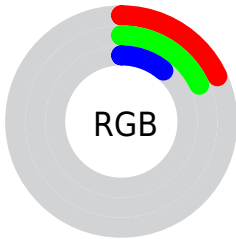
Format	Color
RYB	27, 45, 27
Decimal	2960667
CIELab	18.00, -3.58, 11.67
CIELCh	18, 12.211, 107.041
Yxy	2.5180, 0.3614, 0.4095
Android (android.graphics.Color)	4281150747 (0xFF2D2D1B)
YUV	42.9480, -7.8624, 1.7996
Hunter-Lab	15.8683, -2.7719, 5.8463

Details

The CIELCh color **18, 12.211, 107.041** is a dark color, and the websafe version is hex **333333**. A complement of this color would be **11, 13.230, 294.269**, and the grayscale version is **18, 0.003, 296.813**.

A 20% lighter version of the original color is **38, 12.784, 108.118**, and **0, 0.000, 0.000** is the 20% darker color. If you saturate the color by 10%, you get **18, 15.145, 106.283**, and if you desaturate by 10%, it is **18, 9.206, 107.825**.

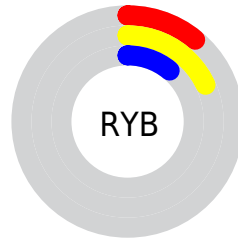
Distribution



Red (18%)

Green (18%)

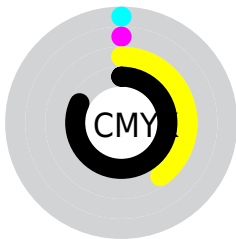
Blue (11%)



Red (11%)

Yellow (18%)

Blue (11%)

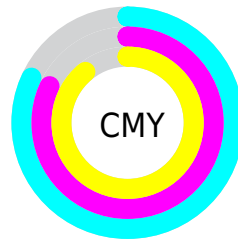


Cyan (0%)

Magenta (0%)

Yellow (40%)

Black (82%)



Cyan (82%)

Magenta (82%)

Yellow (89%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 18, 12.211, 107.041 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 18, 12.211, 107.041 by changing the saturation by 10% instead.

■ 18, 12.211,
107.041

■ 18, 12.211,
107.041

■ 100, 12.211,
107.041

■ 8, 12.211, 107.041

■ 38, 12.211,
107.041

■ 0, 12.211, 107.041

■ 48, 12.211,
107.041


■ 58, 12.211,
107.041


■ 68, 12.211,
107.041


■ 78, 12.211,
107.041


■ 88, 12.211,

107.041


 98, 12.211,
107.041

 18, 12.211,
107.041


 18, 12.211,
107.041

 18, 15.145,
106.283

 18, 9.206, 107.825

 18, 17.966,
105.556


 18, 6.155, 108.612

 18, 20.414,
105.035

 18, 3.078, 109.396

 18, 22.372,
104.712

 18, 0.013, 291.918

 18, 24.187,
104.470

 19, 3.109, 290.954

 19, 6.202, 291.697

 19, 9.288, 292.419

■ 18, 26.002,
104.270

■ 19, 12.363,
293.116

■ 18, 26.008,
104.269

■ 19, 15.424,
293.787

Harmonies

Complementary

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



18, 12.211, 107.041



11, 13.230, 294.269

Rectangle

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



18, 12.211, 107.041



18, 12.211, 157.041



18, 12.211, 287.041



18, 12.211, 337.041

Sweetspot

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



18, 12.212, 107.044



24, 4.627, 109.183



12, 9.649, 22.224



11, 3.105, 109.192



65, 0.008, 296.813



12, 0.003, 296.813

Same Dimension

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



18, 12.212, 107.044



24, 18.160, 106.221



17, 13.124, 127.552



8, 1.615, 110.170



36, 44.162, 102.854



83, 84.962, 102.855

Inverse Universe

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



11, 13.230, 294.269



13, 20.229, 295.790



12, 13.739, 310.663



7, 1.619, 290.187



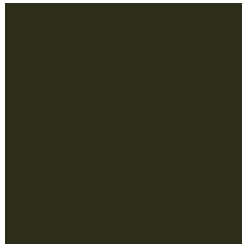
6, 60.349, 305.914



26, 117.318, 306.287

Previews

White Background



This preview shows how the CIELCh color 18, 12.211, 107.041 looks on a white background.

Color Contrast Check

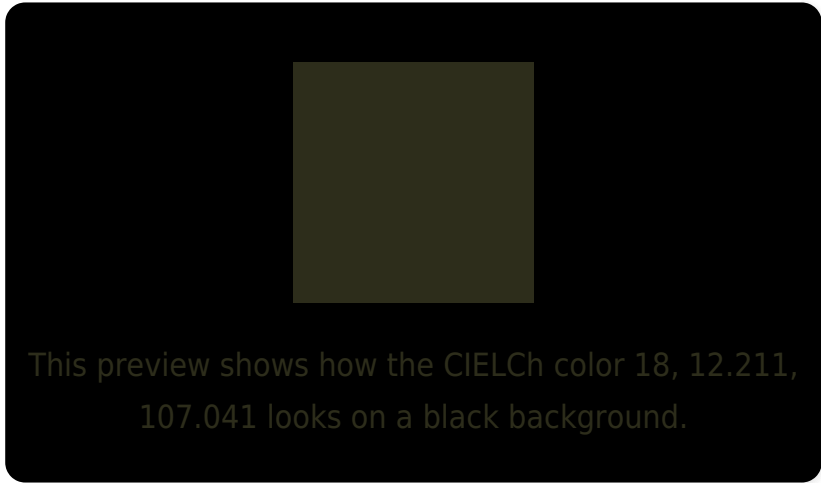
Large Text (above 18pt) WCAG AA ✓ Pass

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

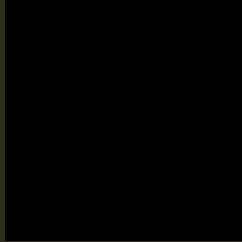
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 18, 12.211, 107.041

Background



This preview shows how black text looks on a background with the CIELCh color 18, 12.211, 107.041.

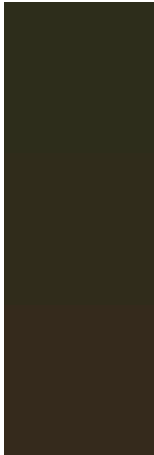


This preview shows how white text looks on a background with the CIELCh color 18, 12.211, 107.041.

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

18, 12.211, 107.041

Protanopia

18, 11.788, 96.760

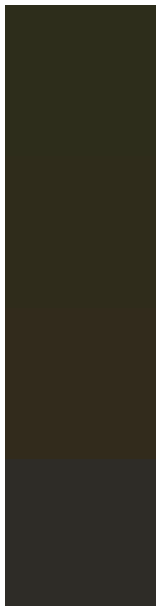
Deuteranopia

18, 11.384, 76.404



Tritanopia
18, 2.818, 332.749

Trichromacy



Original Color
18, 12.211, 107.041

Protanomaly
18, 11.697, 99.336

Deuteranomaly
18, 10.968, 87.592

Tritanomaly
18, 3.572, 93.219

Monochromacy



Original Color
18, 12.211, 107.041

Achromatopsia
18, 0.003, 296.813

Achromatomaly
18, 4.812, 108.937

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 18, 12.211, 107.041 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(45, 45, 27)` looks like.

```
.text, #text, p{  
    color:rgb(45, 45, 27)  
}
```

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(45, 45, 27) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(45, 45, 27) }
```

Border

The CSS property to change the border of an element to CIELCh 18, 12.211, 107.041 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(45, 45, 27) }
```

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

```
.border{ border-color:rgb(45, 45, 27) }
```

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

Here you see how a box with a 4 pixel `rgb(45, 45, 27)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(45, 45, 27); -webkit-box-  
shadow:4px 4px 4px 4px rgb(45, 45, 27);  
box-shadow:4px 4px 4px 4px rgb(45, 45, 27)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 18, 12.211, 107.041 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(45, 45, 27) }
```

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

```
.background{ background-color: rgb(45, 45,  
27) }
```

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