

Converting Colors

CIELCh(13, 12.661, 118.237)

Have a look what the booklet for
CIELCh(13, 12.661, 118.237)
contains.

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Color

CIELCh(13, 12.010, 117.286)

Conversions

Conversions Part 1

Format	Color
Hex	1F2312
RGB	31, 35, 18
RGB Percent	12%, 14%, 7%
CMY	0.8772, 0.8615, 0.9280
CMYK	0.11, 0.00, 0.48, 0.86
HSL	74°, 32%, 11%
HSV	74°, 48%, 14%
XYZ	1.2974, 1.5625, 0.8208
YIQ	31.8660, 3.0730, -6.1350

Conversions

Conversions Part 2

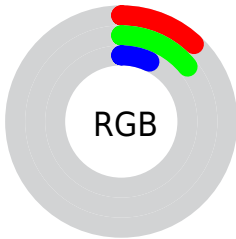
Format	Color
RYB	18, 35, 22
Decimal	2040594
CIELab	13.00, -5.51, 10.67
CIELCh	13, 12.010, 117.286
Yxy	1.5625, 0.3525, 0.4245
Android (android.graphics.Color)	4280230674 (0xFF1F2312)
YUV	31.8660, -6.8359, -0.7595
Hunter-Lab	12.5000, -3.3483, 4.8568

Details

The CIELCh color **13, 12.010, 117.286** is a dark color, and the websafe version is hex **333333**. A complement of this color would be **7, 12.856, 301.427**, and the grayscale version is **12, 0.003, 296.813**.

A 20% lighter version of the original color is **33, 12.012, 116.938**, and **0, 0.000, 0.000** is the 20% darker color. If you saturate the color by 10%, you get **13, 14.069, 117.492**, and if you desaturate by 10%, it is **13, 9.644, 117.530**.

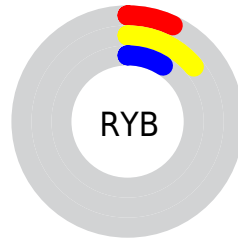
Distribution



Red (12%)

Green (14%)

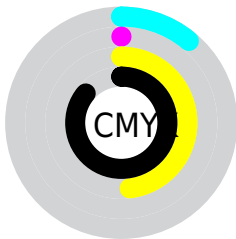
Blue (7%)



Red (7%)

Yellow (14%)

Blue (9%)

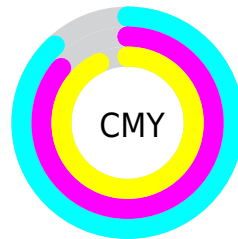


Cyan (11%)

Magenta (0%)

Yellow (48%)

Black (86%)



Cyan (88%)

Magenta (86%)

Yellow (93%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 13, 12.010, 117.286 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 13, 12.010, 117.286 by changing the saturation by 10% instead.

■ 13, 12.010,
117.286

■ 13, 12.010,
117.286

■ 100, 12.010,
117.286

■ 3, 12.010, 117.286

■ 33, 12.010,
117.286

■ 0, 12.010, 117.286

■ 43, 12.010,
117.286


■ 53, 12.010,
117.286


■ 63, 12.010,
117.286


■ 73, 12.010,
117.286


■ 83, 12.010,

117.286


 93, 12.010,
117.286

 13, 12.010,
117.286


 13, 12.010,
117.286

 13, 14.069,
117.492


 13, 9.644, 117.530

 13, 15.829,
117.945


 13, 7.136, 118.026

 13, 17.364,
118.523

 14, 4.601, 118.523

 12, 18.891,
119.064

 14, 0.502, 299.475

 12, 20.431,
119.569

 14, 3.054, 299.951

 14, 5.600, 300.397

■ 12, 20.734,
119.665

■ 15, 8.134, 300.822

■ 15, 10.653,
301.227

Harmonies

Complementary

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



13, 12.010, 117.286



7, 12.856, 301.427

Rectangle

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



13, 12.010, 117.286



13, 12.010, 167.286



13, 12.010, 297.286



13, 12.010, 347.286

Sweetspot

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



13, 12.011, 117.288



19, 4.462, 118.675



9, 7.814, 40.767



7, 2.707, 119.938



62, 0.008, 296.813



8, 0.002, 296.812

Same Dimension

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



13, 12.011, 117.288



18, 18.042, 116.420



12, 13.593, 135.301



5, 1.041, 119.680



32, 43.659, 115.642



78, 86.468, 116.777

Inverse Universe

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



7, 12.856, 301.427



8, 20.183, 303.485



8, 13.994, 318.330



5, 1.043, 299.115



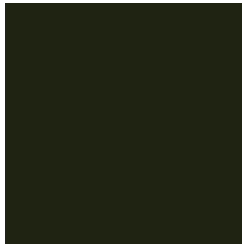
7, 56.476, 308.141



27, 113.029, 307.534

Previews

White Background



This preview shows how the CIELCh color 13, 12.010, 117.286 looks on a white background.

Color Contrast Check

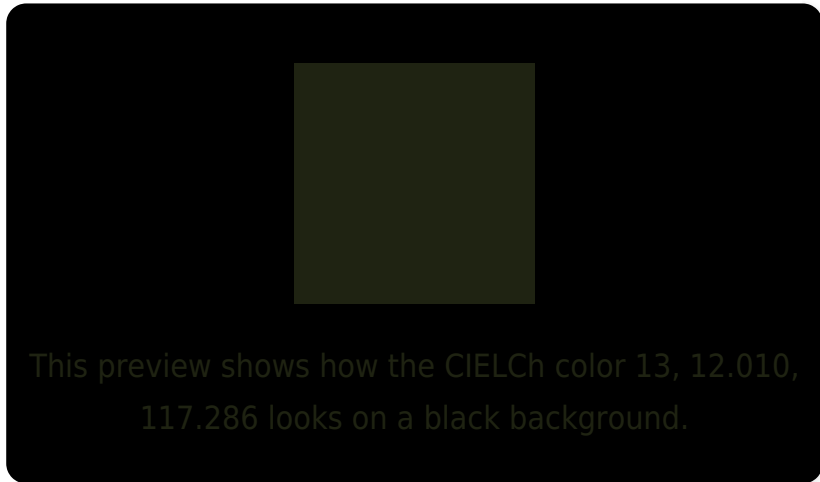
Large Text (above 18pt) WCAG AA ✓ Pass

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 13, 12.010, 117.286

Background



This preview shows how black text looks on a background with the CIELCh color 13, 12.010, 117.286.

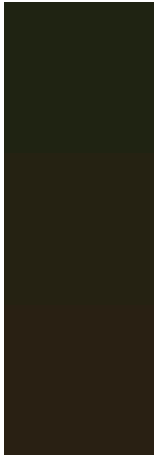


This preview shows how white text looks on a background with the CIELCh color 13, 12.010, 117.286.

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

13, 12.010, 117.286

Protanopia

13, 11.271, 98.429

Deuteranopia

13, 10.568, 78.820



Tritanopia
13, 2.161, 290.828

Trichromacy



Original Color
13, 12.010, 117.286

Protanomaly
13, 11.149, 104.127

Deuteranomaly
13, 10.118, 94.551

Tritanomaly
13, 3.045, 128.689

Monochromacy



Original Color
13, 12.010, 117.286

Achromatopsia
12, 0.003, 296.813

Achromatomaly
12, 4.338, 115.726

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 13, 12.010, 117.286 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(31, 35, 18)` looks like.

```
.text, #text, p{  
    color:rgb(31, 35, 18)  
}
```

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(31, 35, 18) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(31, 35, 18) }
```

Border

The CSS property to change the border of an element to CIELCh 13, 12.010, 117.286 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(31, 35, 18) }
```

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

```
.border{ border-color:rgb(31, 35, 18) }
```

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

Here you see how a box with a 4 pixel rgb(31, 35, 18) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(31, 35, 18); -webkit-box-  
shadow:4px 4px 4px 4px rgb(31, 35, 18);  
box-shadow:4px 4px 4px 4px rgb(31, 35, 18)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 13, 12.010, 117.286 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(31, 35, 18) }
```

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

```
.background{ background-color: rgb(31, 35,  
18) }
```

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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