

Converting Colors

CIELCh(13, 8.645, 42.869)

Have a look what the booklet for
CIELCh(13, 8.645, 42.869) contains.

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Color

CIELCh(13, 8.707, 40.326)

Conversions

Conversions Part 1

Format	Color
Hex	2D1E1A
RGB	45, 30, 26
RGB Percent	18%, 12%, 10%
CMY	0.8234, 0.8823, 0.8980
CMYK	0.00, 0.33, 0.42, 0.82
HSL	13°, 27%, 14%
HSV	13°, 42%, 18%
XYZ	1.7345, 1.5625, 1.1885
YIQ	34.0290, 10.2240, 1.9360

Conversions

Conversions Part 2

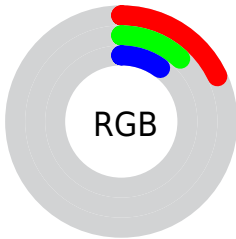
Format	Color
RYB	45, 31, 26
Decimal	2956826
CIELab	13.00, 6.64, 5.63
CIELCh	13, 8.707, 40.326
Yxy	1.5625, 0.3867, 0.3483
Android (android.graphics.Color)	4281146906 (0xFF2D1E1A)
YUV	34.0290, -3.9583, 9.6216
Hunter-Lab	12.5000, 2.8935, 3.1127

Details

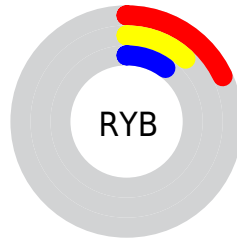
The CIELCh color **13, 8.707, 40.326** is a dark color, and the websafe version is hex **333333**. A complement of this color would be **15, 6.848, 222.650**, and the grayscale version is **13, 0.003, 296.813**.

A 20% lighter version of the original color is **33, 8.471, 42.068**, and **0, 0.000, 0.000** is the 20% darker color. If you saturate the color by 10%, you get **12, 11.130, 40.454**, and if you desaturate by 10%, it is **14, 6.422, 40.276**.

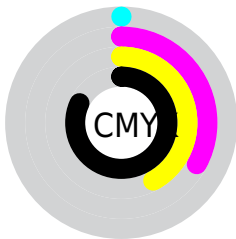
Distribution



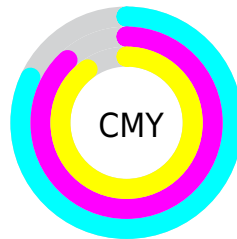
- Red (18%)
- Green (12%)
- Blue (10%)



- Red (18%)
- Yellow (12%)
- Blue (10%)



- Cyan (0%)
- Magenta (33%)
- Yellow (42%)
- Black (82%)



- Cyan (82%)
- Magenta (88%)
- Yellow (90%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 13, 8.707, 40.326 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, 8.707, 40.326 by changing the saturation by 10% instead.

 13, 8.707, 40.326  13, 8.707, 40.326

 100, 8.707, 40.326  3, 8.707, 40.326

 33, 8.707, 40.326  0, 8.707, 40.326

 43, 8.707, 40.326

 53, 8.707, 40.326

 63, 8.707, 40.326

 73, 8.707, 40.326

 83, 8.707, 40.326

 93, 8.707, 40.326

 13, 8.707, 40.326  13, 8.707, 40.326

■ 12, 11.130, 40.454

■ 14, 6.422, 40.276

■ 11, 13.415, 39.313

■ 16, 4.281, 40.308

■ 10, 15.456, 37.004

■ 17, 2.276, 40.394

■ 8, 17.308, 34.219

■ 18, 0.398, 40.182

■ 8, 19.077, 32.293

■ 20, 1.364, 221.045

■ 7, 20.294, 31.771

■ 21, 3.020, 221.240

■ 22, 4.579, 221.519

■ 24, 6.052, 221.830

■ 25, 7.448, 222.158

Harmonies

Complementary

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



13, 8.707, 40.326



15, 6.848, 222.650

Rectangle

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



13, 8.707, 40.326



13, 8.707, 90.326



13, 8.707, 220.326



13, 8.707, 270.326

Sweetspot

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



13, 8.707, 40.332



23, 3.045, 40.380



12, 14.031, 332.750



10, 2.160, 40.374



65, 0.008, 296.813



12, 0.003, 296.813

Same Dimension

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



13, 8.707, 40.332



17, 13.677, 40.545



16, 9.761, 89.334



7, 0.940, 39.719



18, 40.572, 41.456



47, 86.897, 43.591

Inverse Universe

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



15, 6.848, 222.650



20, 9.925, 223.672



12, 9.828, 279.089



7, 0.935, 221.724



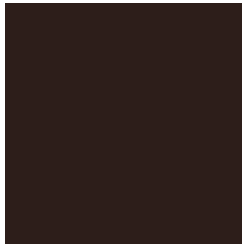
26, 19.976, 234.479



64, 38.801, 238.315

Previews

White Background



This preview shows how the CIELCh color 13, 8.707, 40.326 looks on a white background.

Color Contrast Check

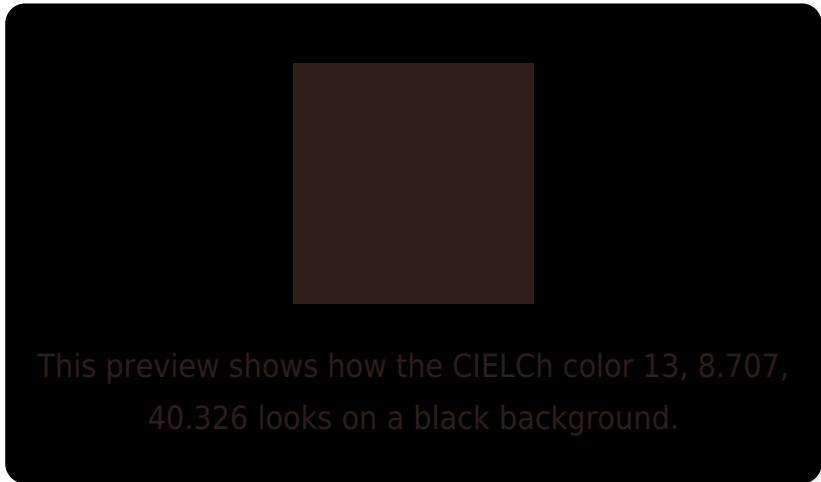
Large Text (above 18pt) WCAG AA ✓ Pass

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

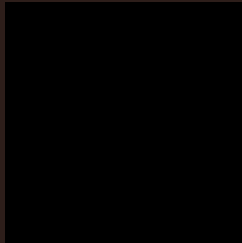
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 13, 8.707, 40.326

Background



This preview shows how black text looks on a background with the CIELCh color 13, 8.707, 40.326.



This preview shows how white text looks on a background with the CIELCh color 13, 8.707, 40.326.

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, 8.707, 40.326

Protanopia

13, 4.403, 95.186

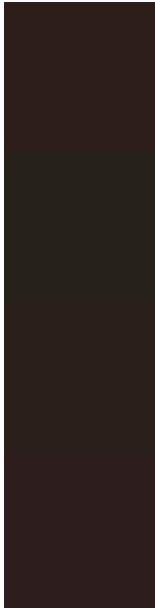
Deuteranopia

13, 6.120, 64.285



Tritanopia
13, 8.937, 12.905

Trichromacy



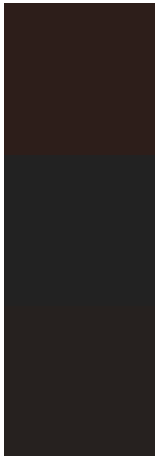
Original Color
13, 8.707, 40.326

Protanomaly
13, 5.364, 72.425

Deuteranomaly
13, 7.000, 51.123

Tritanomaly
13, 9.006, 21.933

Monochromacy



Original Color
13, 8.707, 40.326

Achromatopsia
13, 0.003, 296.813

Achromatomaly
13, 2.939, 48.913

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 13, 8.707, 40.326 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, 30, 26)` looks like.

```
.text, #text, p{  
    color:rgb(45, 30, 26)  
}
```

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, 30, 26) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(45, 30, 26) }
```

Border

The CSS property to change the border of an element to CIELCh 13, 8.707, 40.326 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, 30, 26) }
```

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

```
.border{ border-color:rgb(45, 30, 26) }
```

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

Here you see how a box with a 4 pixel `rgb(45, 30, 26)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(45, 30, 26); -webkit-box-  
shadow:4px 4px 4px 4px rgb(45, 30, 26);  
box-shadow:4px 4px 4px 4px rgb(45, 30, 26)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 13, 8.707, 40.326 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(45, 30, 26) }
```

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

```
.background{ background-color: rgb(45, 30,  
26) }
```

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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