

Converting Colors

CIELCh(13, 10.364, 88.592)

Have a look what the booklet for
CIELCh(13, 10.364, 88.592) contains.

CIELCh(13, 10.449, 88.528)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	11
<i>Previews</i>	20
<i>Color Blindness Simulation</i>	23
<i>CSS Examples</i>	26

Color

CIELCh(13, 10.449, 88.528)

Conversions

Conversions Part 1

Format	Color
Hex	272113
RGB	39, 33, 19
RGB Percent	15%, 13%, 7%
CMY	0.8472, 0.8708, 0.9257
CMYK	0.00, 0.15, 0.51, 0.85
HSL	42°, 35%, 11%
HSV	42°, 51%, 15%
XYZ	1.4947, 1.5625, 0.8367
YIQ	33.1980, 8.0700, -3.0820

Conversions

Conversions Part 2

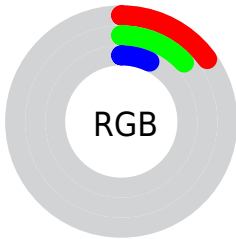
Format	Color
RYB	28, 39, 19
Decimal	2564371
CIELab	13.00, 0.27, 10.45
CIElCh	13, 10.449, 88.528
Yxy	1.5625, 0.3839, 0.4013
Android (android.graphics.Color)	4280754451 (0xFF272113)
YUV	33.1980, -6.9996, 5.0884
Hunter-Lab	12.5000, -0.5307, 4.7812

Details

The CIELCh color **13, 10.449, 88.528** is a dark color, and the websafe version is hex **333333**. A complement of this color would be **9, 10.641, 280.358**, and the grayscale version is **13, 0.003, 296.813**.

A 20% lighter version of the original color is **33, 10.723, 87.818**, and **0, 0.000, 0.000** is the 20% darker color. If you saturate the color by 10%, you get **13, 12.086, 87.355**, and if you desaturate by 10%, it is **13, 8.445, 89.598**.

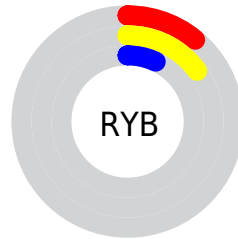
Distribution



Red (15%)

Green (13%)

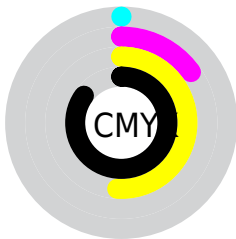
Blue (7%)



Red (11%)

Yellow (15%)

Blue (7%)

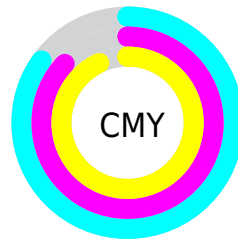


Cyan (0%)

Magenta (15%)

Yellow (51%)

Black (85%)



Cyan (85%)

Magenta (87%)

Yellow (93%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 13, 10.449, 88.528 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, 10.449, 88.528 by changing the saturation by 10% instead.

 13, 10.449, 88.528

 13, 10.449, 88.528

 100, 10.449,
88.528

 3, 10.449, 88.528

 33, 10.449, 88.528

 0, 10.449, 88.528

 43, 10.449, 88.528

 53, 10.449, 88.528

 63, 10.449, 88.528

 73, 10.449, 88.528

 83, 10.449, 88.528

 93, 10.449, 88.528

■ 13, 10.449, 88.528

■ 13, 10.449, 88.528

■ 13, 12.086, 87.355

■ 13, 8.445, 89.598

■ 12, 13.355, 86.002

■ 14, 6.366, 90.627

■ 12, 14.365, 84.543

■ 14, 4.306, 91.629

■ 11, 15.365, 83.274

■ 15, 2.272, 92.596

■ 11, 16.230, 82.317

■ 16, 0.265, 93.313

■ 16, 1.713, 274.549

■ 17, 3.665, 275.421

■ 17, 5.589, 276.277

■ 18, 7.489, 277.104

Harmonies

Complementary

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



13, 10.449, 88.528



9, 10.641, 280.358

Rectangle

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



13, 10.449, 88.528



13, 10.449, 138.528



13, 10.449, 268.528



13, 10.449, 318.528

Sweetspot

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



13, 10.449, 88.533



20, 3.788, 92.152



9, 11.336, 0.856



8, 2.424, 92.249



63, 0.008, 296.813



9, 0.003, 296.813

Same Dimension

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



13, 10.449, 88.533



17, 16.038, 86.943



15, 13.921, 115.307



6, 0.937, 92.987



27, 36.722, 80.864



66, 71.946, 78.540

Inverse Universe

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



9, 10.641, 280.358



11, 16.360, 283.163



7, 15.220, 301.257



6, 0.959, 274.411



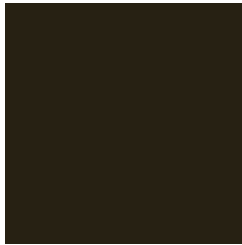
12, 42.208, 295.385



35, 90.289, 298.670

Previews

White Background



This preview shows how the CIELCh color 13, 10.449, 88.528 looks on a white background.

Color Contrast Check

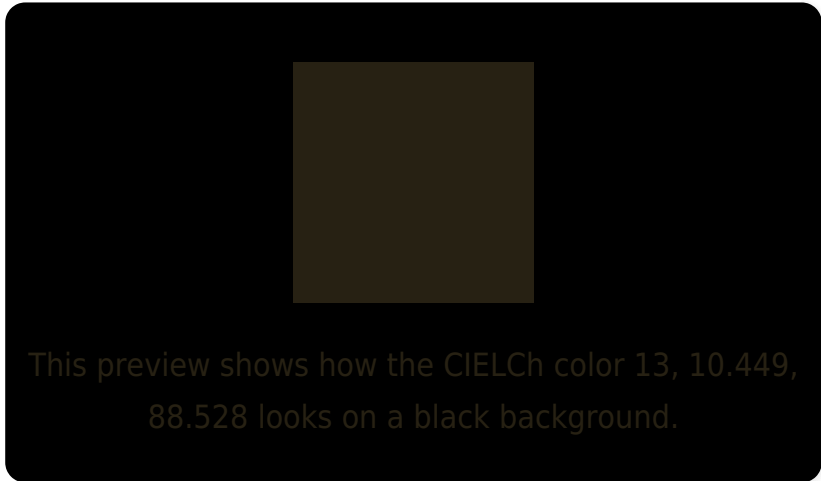
Large Text (above 18pt) WCAG AA ✓ Pass

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

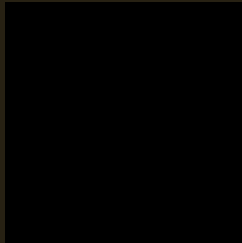
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 13, 10.449, 88.528

Background



This preview shows how black text looks on a background with the CIELCh color 13, 10.449, 88.528.

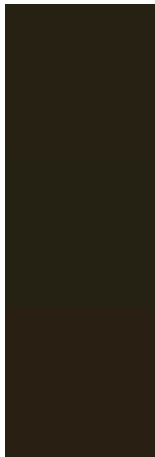


This preview shows how white text looks on a background with the CIELCh color 13, 10.449, 88.528.

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, 10.449, 88.528

Protanopia

13, 10.661, 98.099

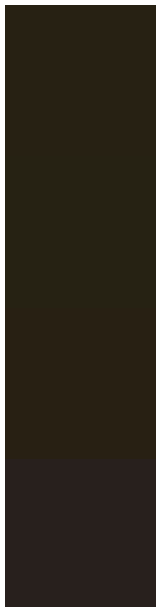
Deuteranopia

13, 10.568, 78.820



Tritanopia
13, 5.006, 355.430

Trichromacy



Original Color

13, 10.449, 88.528

Protanomaly

13, 10.771, 95.157

Deuteranomaly

13, 10.287, 81.550

Tritanomaly

13, 4.736, 47.097

Monochromacy



Original Color

13, 10.449, 88.528

Achromatopsia

13, 0.003, 296.813

Achromatomaly

13, 3.728, 92.875

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 13, 10.449, 88.528 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(39, 33, 19)` looks like.

```
.text, #text, p{  
    color:rgb(39, 33, 19)  
}
```

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(39, 33, 19) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(39, 33, 19) }
```

Border

The CSS property to change the border of an element to CIELCh 13, 10.449, 88.528 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(39, 33, 19) }
```

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

```
.border{ border-color:rgb(39, 33, 19) }
```

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

Here you see how a box with a 4 pixel rgb(39, 33, 19) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(39, 33, 19); -webkit-box-  
shadow:4px 4px 4px 4px rgb(39, 33, 19);  
box-shadow:4px 4px 4px 4px rgb(39, 33, 19)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 13, 10.449, 88.528 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(39, 33, 19) }
```

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

```
.background{ background-color: rgb(39, 33,  
19) }
```

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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