

Converting Colors

CIELCh(13, 24.118, 23.431)

Have a look what the booklet for
CIELCh(13, 24.118, 23.431) contains.

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Color

CIELCh(13, 24.217, 23.384)

Conversions

Conversions Part 1

Format	Color
Hex	3F1215
RGB	63, 18, 21
RGB Percent	25%, 7%, 8%
CMY	0.7518, 0.9284, 0.9167
CMYK	0.00, 0.71, 0.66, 0.75
HSL	356°, 55%, 16%
HSV	356°, 71%, 25%
XYZ	2.4266, 1.5625, 0.8950
YIQ	31.7970, 25.8570, 10.4730

Conversions

Conversions Part 2

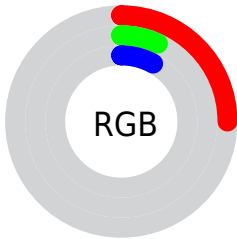
Format	Color
RYB	63, 18, 21
Decimal	4133397
CIELab	13.00, 22.23, 9.61
CIELCh	13, 24.217, 23.384
Yxy	1.5625, 0.4968, 0.3199
Android (android.graphics.Color)	4282323477 (0xFF3F1215)
YUV	31.7970, -5.3229, 27.3650
Hunter-Lab	12.5000, 12.7769, 4.5046

Details

The CIELCh color **13, 24.217, 23.384** is a dark color, and the websafe version is hex **330000**. A complement of this color would be **24, 16.172, 189.612**, and the grayscale version is **12, 0.003, 296.813**.

A 20% lighter version of the original color is **33, 24.237, 23.717**, and **0, 0.000, 0.000** is the 20% darker color. If you saturate the color by 10%, you get **12, 27.452, 24.782**, and if you desaturate by 10%, it is **15, 20.548, 21.106**.

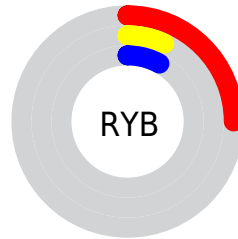
Distribution



 Red (25%)

 Green (7%)

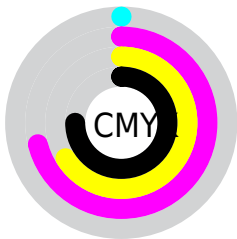
 Blue (8%)



 Red (25%)

 Yellow (7%)

 Blue (8%)

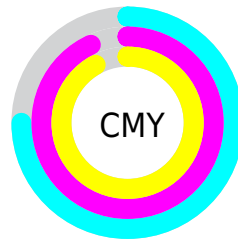


 Cyan (0%)

 Magenta (71%)

 Yellow (66%)

 Black (75%)



 Cyan (75%)

 Magenta (93%)

 Yellow (92%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 13, 24.217, 23.384 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, 24.217, 23.384 by changing the saturation by 10% instead.

 13, 24.217, 23.384

 13, 24.217, 23.384

 100, 24.217,
23.384

 3, 24.217, 23.384

 33, 24.217, 23.384

 0, 24.217, 23.384

 43, 24.217, 23.384

 53, 24.217, 23.384

 63, 24.217, 23.384

 73, 24.217, 23.384

 83, 24.217, 23.384

 93, 24.217, 23.384

■ 13, 24.217, 23.384

■ 13, 24.217, 23.384

■ 12, 27.452, 24.782

■ 15, 20.548, 21.106

■ 11, 30.161, 25.005

■ 16, 16.860, 19.222

■ 10, 32.641, 24.330

■ 18, 13.243, 17.705

■ 20, 9.755, 16.475

■ 22, 6.431, 15.464

■ 24, 3.287, 14.606

■ 27, 0.327, 13.259

■ 29, 2.455, 193.512

■ 31, 5.071, 192.967

Harmonies

Complementary

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



13, 24.217, 23.384



24, 16.172, 189.612

Rectangle

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



13, 24.217, 23.384



13, 24.217, 73.384



13, 24.217, 203.384



13, 24.217, 253.384

Sweetspot

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



13, 24.216, 23.387



29, 7.912, 15.534



14, 33.708, 325.429



13, 5.277, 15.613



69, 0.009, 296.813



16, 0.003, 296.813

Same Dimension

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



13, 24.216, 23.387



16, 35.815, 28.320



18, 20.226, 61.156



10, 1.579, 14.379



18, 45.961, 32.226



46, 91.466, 37.840

Inverse Universe

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



13, 24.216, 23.387



16, 35.815, 28.320



17, 15.492, 260.663



10, 1.579, 14.379



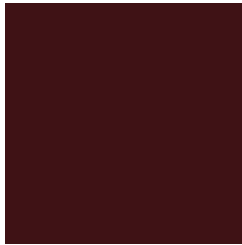
18, 45.961, 32.226



46, 91.466, 37.840

Previews

White Background



This preview shows how the CIELCh color 13, 24.217, 23.384 looks on a white background.

Color Contrast Check

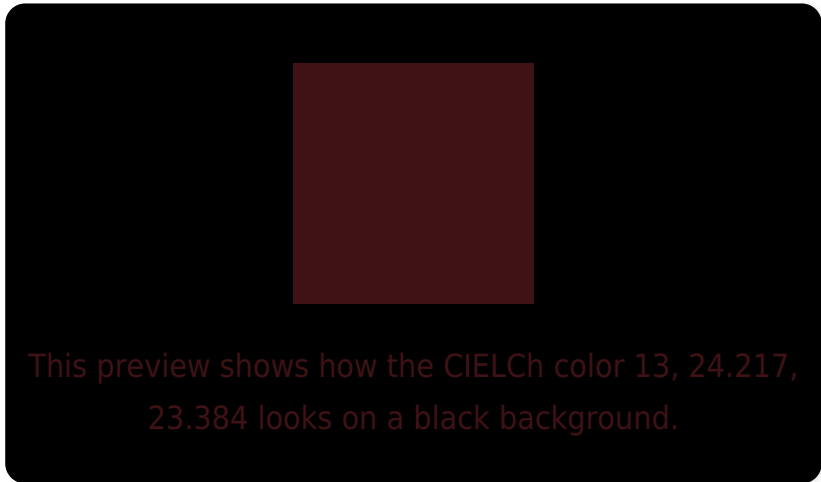
Large Text (above 18pt) WCAG AA ✓ Pass

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

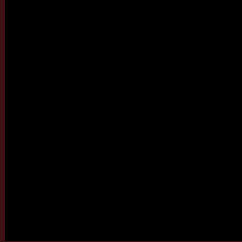
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 13, 24.217, 23.384

Background



This preview shows how black text looks on a background with the CIELCh color 13, 24.217, 23.384.



This preview shows how white text looks on a background with the CIELCh color 13, 24.217, 23.384.

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, 24.217, 23.384

Protanopia

14, 5.078, 96.826

Deuteranopia

14, 11.764, 81.624



Tritanopia
13, 24.227, 27.409

Trichromacy



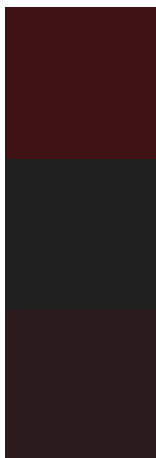
Original Color
13, 24.217, 23.384

Protanomaly
13, 10.088, 34.057

Deuteranomaly
13, 13.975, 45.730

Tritanomaly
13, 24.024, 26.003

Monochromacy



Original Color
13, 24.217, 23.384

Achromatopsia
12, 0.003, 296.813

Achromatomaly
12, 8.493, 17.116

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 13, 24.217, 23.384 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(63, 18, 21)` looks like.

```
.text, #text, p{  
    color:rgb(63, 18, 21)  
}
```

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(63, 18, 21) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(63, 18, 21) }
```

Border

The CSS property to change the border of an element to CIELCh 13, 24.217, 23.384 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(63, 18, 21) }
```

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

```
.border{ border-color:rgb(63, 18, 21) }
```

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

Here you see how a box with a 4 pixel rgb(63, 18, 21) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(63, 18, 21); -webkit-box-  
shadow:4px 4px 4px 4px rgb(63, 18, 21);  
box-shadow:4px 4px 4px 4px rgb(63, 18, 21)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 13, 24.217, 23.384 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(63, 18, 21) }
```

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

```
.background{ background-color: rgb(63, 18,  
21) }
```

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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