

Converting Colors

CIELCh(13, 35.680, 51.475)

Have a look what the booklet for
CIELCh(13, 35.680, 51.475) contains.

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Color

CIELCh(13, 30.225, 41.224)

Conversions

Conversions Part 1

Format	Color
Hex	421100
RGB	66, 17, 0
RGB Percent	26%, 7%, 0%
CMY	0.7410, 0.9331, 0.9997
CMYK	0.00, 0.74, 1.00, 0.74
HSL	15°, 100%, 13%
HSV	15°, 100%, 26%
XYZ	2.4517, 1.5625, 0.1745
YIQ	29.7130, 34.6610, 5.1010

Conversions

Conversions Part 2

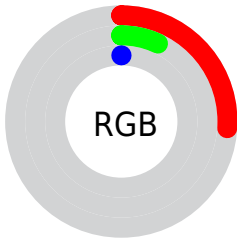
Format	Color
RYB	66, 23, 0
Decimal	4329728
CIELab	13.00, 22.73, 19.92
CIElCh	13, 30.225, 41.224
Yxy	1.5625, 0.5853, 0.3730
Android (android.graphics.Color)	4282519808 (0xFF421100)
YUV	29.7130, -14.6485, 31.8237
Hunter-Lab	12.5000, 13.1350, 7.9225

Details

The CIELCh color **13, 30.225, 41.224** is a dark color, and the websafe version is hex **330000**. A complement of this color would be **18, 16.975, 241.671**, and the grayscale version is **11, 0.003, 296.813**.

A 20% lighter version of the original color is **33, 30.361, 41.221**, and **0, 0.000, 0.000** is the 20% darker color. If you saturate the color by 10%, you get **13, 30.252, 41.218**, and if you desaturate by 10%, it is **14, 27.657, 42.489**.

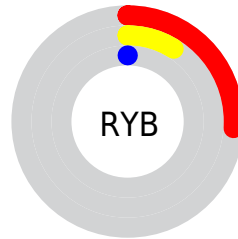
Distribution



Red (26%)

Green (7%)

Blue (0%)



Red (26%)

Yellow (9%)

Blue (0%)

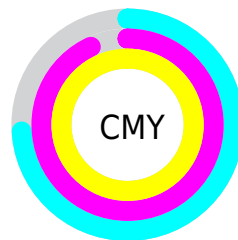


Cyan (0%)

Magenta (74%)

Yellow (100%)

Black (74%)



Cyan (74%)

Magenta (93%)

Yellow (100%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 13, 30.225, 41.224 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, 30.225, 41.224 by changing the saturation by 10% instead.

 13, 30.225, 41.224

 13, 30.225, 41.224

 100, 30.225,
41.224

 3, 30.225, 41.224

 33, 30.225, 41.224

 0, 30.225, 41.224

 43, 30.225, 41.224

 53, 30.225, 41.224

 63, 30.225, 41.224

 73, 30.225, 41.224

 83, 30.225, 41.224

 93, 30.225, 41.224

■ 13, 30.225, 41.224

■ 13, 30.225, 41.224

■ 13, 30.252, 41.218

■ 14, 27.657, 42.489

■ 15, 24.941, 44.348

■ 17, 21.617, 45.199

■ 18, 17.930, 45.033

■ 20, 14.427, 44.988

■ 21, 11.131, 45.065

■ 23, 8.047, 45.247

■ 25, 5.168, 45.511

■ 26, 2.481, 45.813

Harmonies

Complementary

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



13, 30.225, 41.224



18, 16.975, 241.671

Rectangle

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



13, 30.225, 41.224



13, 30.225, 91.224



13, 30.225, 221.224



13, 30.225, 271.224

Sweetspot

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



13, 30.224, 41.227



30, 10.178, 45.215



12, 36.908, 339.509



13, 6.875, 45.181



70, 0.009, 296.813



18, 0.003, 296.813

Same Dimension

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



13, 30.224, 41.227



18, 39.790, 43.993



22, 30.428, 85.740



12, 1.393, 45.849



21, 44.230, 44.778



51, 88.159, 45.170

Inverse Universe

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



18, 16.975, 241.671



25, 20.596, 243.804



7, 36.856, 296.331



12, 1.335, 226.829



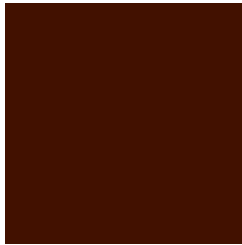
28, 22.327, 244.549



64, 42.054, 248.417

Previews

White Background



This preview shows how the CIE LCh color 13, 30.225, 41.224 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, 30.225, 41.224

Background



This preview shows how black text looks on a background with the CIELCh color 13, 30.225, 41.224.

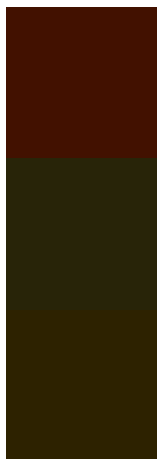


This preview shows how white text looks on a background with the CIELCh color 13, 30.225, 41.224.

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, 30.225, 41.224

Protanopia

14, 17.435, 98.368

Deuteranopia

14, 20.430, 87.301



Tritanopia
13, 27.396, 28.380

Trichromacy



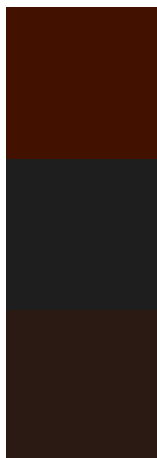
Original Color
13, 30.225, 41.224

Protanomaly
13, 18.619, 67.446

Deuteranomaly
13, 21.947, 63.936

Tritanomaly
13, 28.512, 33.591

Monochromacy



Original Color
13, 30.225, 41.224

Achromatopsia
11, 0.003, 296.813

Achromatomaly
11, 11.201, 43.601

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 13, 30.225, 41.224 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(66, 17, 0)` looks like.

```
.text, #text, p{  
    color:rgb(66, 17, 0)  
}
```

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(66, 17, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(66, 17, 0) }
```

Border

The CSS property to change the border of an element to CIELCh 13, 30.225, 41.224 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(66, 17, 0) }
```

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

```
.border{ border-color:rgb(66, 17, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(66, 17, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(66, 17, 0); -webkit-box-shadow:4px  
4px 4px 4px rgb(66, 17, 0); box-shadow:4px  
4px 4px 4px rgb(66, 17, 0) }
```

Background

The CSS property to change the background color of an element to CIELCh 13, 30.225, 41.224 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(66, 17, 0) }
```

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

```
.background{ background-color: rgb(66, 17,  
0) }
```

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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