

Converting Colors

CIELCh(2, 69.121, 357.973)

Have a look what the booklet for
CIELCh(2, 69.121, 357.973) contains.

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Color

CIELCh(13, 36.581, 21.649)

Conversions

Conversions Part 1

Format	Color
Hex	4C0010
RGB	76, 0, 16
RGB Percent	30%, 0%, 6%
CMY	0.7027, 1.0000, 0.9380
CMYK	0.00, 1.00, 0.79, 0.70
HSL	347°, 100%, 15%
HSV	347°, 100%, 30%
XYZ	3.0565, 1.5625, 0.6235
YIQ	24.5480, 40.1600, 21.0880

Conversions

Conversions Part 2

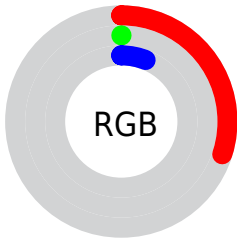
Format	Color
RYB	76, 0, 16
Decimal	4980752
CIELab	13.00, 34.00, 13.50
CIELCh	13, 36.581, 21.649
Yxy	1.5625, 0.5830, 0.2980
Android (android.graphics.Color)	4283170832 (0xFF4C0010)
YUV	24.5480, -4.2142, 45.1234
Hunter-Lab	12.5000, 21.7719, 5.7926

Details

The CIELCh color **13, 36.581, 21.649** is a dark color, and the websafe version is hex **330000**. A complement of this color would be **28, 25.509, 171.932**, and the grayscale version is **8, 0.002, 296.813**.

A 20% lighter version of the original color is **33, 36.346, 22.110**, and **1, 3.057, 19.405** is the 20% darker color. If you saturate the color by 10%, you get **13, 36.534, 21.726**, and if you desaturate by 10%, it is **14, 33.404, 19.581**.

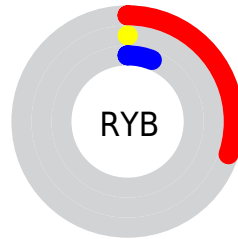
Distribution



Red (30%)

Green (0%)

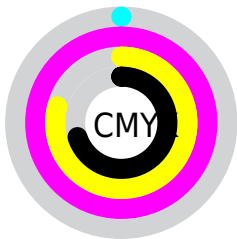
Blue (6%)



Red (30%)

Yellow (0%)

Blue (6%)

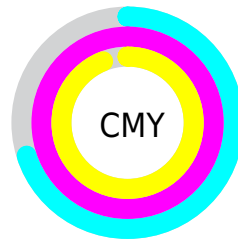


Cyan (0%)

Magenta (100%)

Yellow (79%)

Black (70%)



Cyan (70%)

Magenta (100%)

Yellow (94%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 13, 36.581, 21.649 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, 36.581, 21.649 by changing the saturation by 10% instead.

 13, 36.581, 21.649

 13, 36.581, 21.649

 100, 36.581,
21.649

 3, 36.581, 21.649

 33, 36.581, 21.649

 0, 36.581, 21.649

 43, 36.581, 21.649

 53, 36.581, 21.649

 63, 36.581, 21.649

 73, 36.581, 21.649

 83, 36.581, 21.649

 93, 36.581, 21.649

■ 13, 36.581, 21.649

■ 13, 36.581, 21.649

■ 13, 36.534, 21.726

■ 14, 33.404, 19.581

■ 15, 30.277, 15.969

■ 17, 26.793, 12.937

■ 18, 23.010, 10.485

■ 20, 19.057, 8.499

■ 23, 15.053, 6.873

■ 25, 11.094, 5.521

■ 27, 7.244, 4.376

■ 30, 3.541, 3.369

Harmonies

Complementary

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



13, 36.581, 21.649



28, 25.509, 171.932

Rectangle

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



13, 36.581, 21.649



13, 36.581, 71.649



13, 36.581, 201.649



13, 36.581, 251.649

Sweetspot

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



13, 36.534, 21.726



33, 13.919, 5.666



12, 48.953, 320.820



15, 9.616, 5.962



73, 0.009, 296.813



21, 0.004, 296.813

Same Dimension

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



13, 36.534, 21.726



19, 45.052, 25.153



16, 34.461, 44.464



14, 1.985, 3.240



20, 45.922, 25.351



48, 85.952, 29.635

Inverse Universe

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



13, 36.534, 21.726



19, 45.052, 25.153



21, 19.185, 247.739



14, 1.985, 3.240



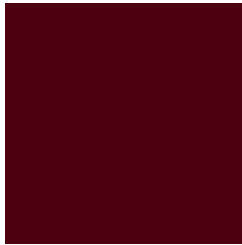
20, 45.922, 25.351



48, 85.952, 29.635

Previews

White Background



This preview shows how the CIELCh color 13, 36.581, 21.649 looks on a white background.

Color Contrast Check

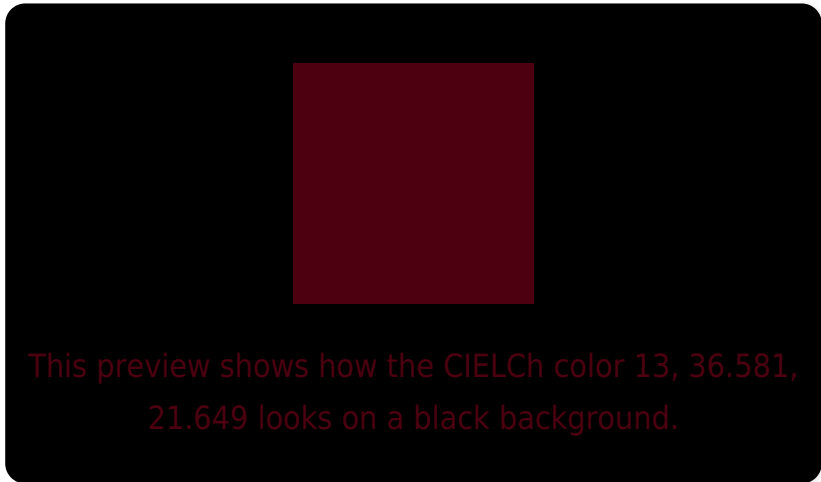
Large Text (above 18pt) WCAG AA ✓ Pass

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

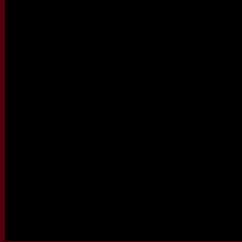
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 13, 36.581, 21.649

Background



This preview shows how black text looks on a background with the CIELCh color 13, 36.581, 21.649.

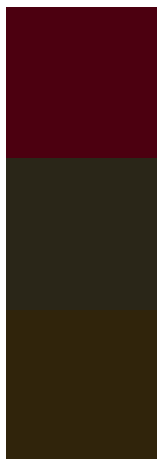


This preview shows how white text looks on a background with the CIELCh color 13, 36.581, 21.649.

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, 36.581, 21.649

Protanopia

15, 10.014, 94.933

Deuteranopia

15, 17.678, 82.893



Tritanopia
14, 37.237, 34.284

Trichromacy



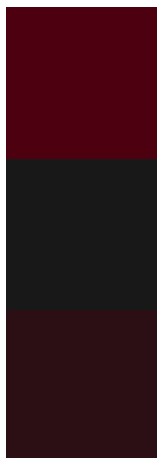
Original Color
13, 36.581, 21.649

Protanomaly
13, 17.062, 31.347

Deuteranomaly
13, 21.619, 40.663

Tritanomaly
13, 37.024, 30.002

Monochromacy



Original Color
13, 36.581, 21.649

Achromatopsia
8, 0.002, 296.813

Achromatomaly
8, 15.485, 9.227

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 13, 36.581, 21.649 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(76, 0, 16)` looks like.

```
.text, #text, p{  
    color:rgb(76, 0, 16)  
}
```

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(76, 0, 16) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(76, 0, 16) }
```

Border

The CSS property to change the border of an element to CIELCh 13, 36.581, 21.649 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(76, 0, 16) }
```

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

```
.border{ border-color:rgb(76, 0, 16) }
```

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

Here you see how a box with a 4 pixel `rgb(76, 0, 16)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(76, 0, 16); -webkit-box-shadow:4px  
4px 4px 4px rgb(76, 0, 16); box-shadow:4px  
4px 4px 4px rgb(76, 0, 16) }
```

Background

The CSS property to change the background color of an element to CIELCh 13, 36.581, 21.649 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(76, 0, 16) }
```

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

```
.background{ background-color: rgb(76, 0,  
16) }
```

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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