

Converting Colors

CIELCh(13, 18.966, 38.078)

Have a look what the booklet for
CIELCh(13, 18.966, 38.078) contains.

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Color

CIELCh(13, 18.639, 38.581)

Conversions

Conversions Part 1

Format	Color
Hex	381912
RGB	56, 25, 18
RGB Percent	22%, 10%, 7%
CMY	0.7814, 0.9028, 0.9304
CMYK	0.00, 0.56, 0.68, 0.78
HSL	11°, 52%, 14%
HSV	11°, 68%, 22%
XYZ	2.0673, 1.5625, 0.7544
YIQ	33.4710, 20.7230, 4.3950

Conversions

Conversions Part 2

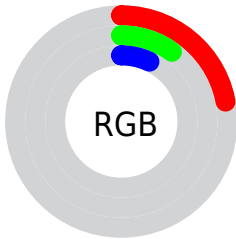
Format	Color
R_{YB}	56, 27, 18
Decimal	3676434
CIE Lab	13.00, 14.57, 11.62
CIE LCh	13, 18.639, 38.581
Yxy	1.5625, 0.4715, 0.3564
Android (android.graphics.Color)	4281866514 (0xFF381912)
YUV	33.4710, -7.6272, 19.7579
Hunter-Lab	12.5000, 7.6465, 5.1719

Details

The CIELCh color **13, 18.639, 38.581** is a dark color, and the websafe version is hex **330000**. A complement of this color would be **18, 11.884, 221.795**, and the grayscale version is **13, 0.003, 296.813**.

A 20% lighter version of the original color is **33, 18.486, 39.446**, and **0, 0.000, 0.000** is the 20% darker color. If you saturate the color by 10%, you get **12, 21.330, 37.170**, and if you desaturate by 10%, it is **14, 15.526, 38.540**.

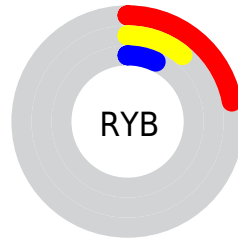
Distribution



Red (22%)

Green (10%)

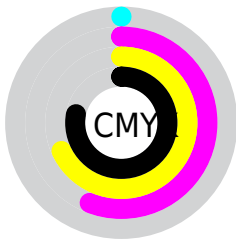
Blue (7%)



Red (22%)

Yellow (11%)

Blue (7%)

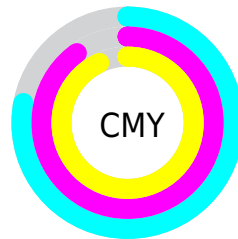


Cyan (0%)

Magenta (56%)

Yellow (68%)

Black (78%)



Cyan (78%)

Magenta (90%)

Yellow (93%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 13, 18.639, 38.581 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, 18.639, 38.581 by changing the saturation by 10% instead.

 13, 18.639, 38.581

 13, 18.639, 38.581

 100, 18.639,
38.581

 3, 18.639, 38.581

 33, 18.639, 38.581

 0, 18.639, 38.581

 43, 18.639, 38.581

 53, 18.639, 38.581

 63, 18.639, 38.581

 73, 18.639, 38.581

 83, 18.639, 38.581

 93, 18.639, 38.581

■ 13, 18.639, 38.581

■ 13, 18.639, 38.581

■ 12, 21.330, 37.170

■ 14, 15.526, 38.540

■ 11, 23.669, 35.240

■ 16, 12.423, 38.083

■ 10, 25.865, 34.151

■ 17, 9.501, 37.788

■ 9, 26.252, 34.048

■ 19, 6.765, 37.624

■ 20, 4.210, 37.563

■ 22, 1.826, 37.541

■ 24, 0.400, 218.338

■ 25, 2.480, 218.041

■ 27, 4.430, 218.213

Harmonies

Complementary

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



13, 18.639, 38.581



18, 11.884, 221.795

Rectangle

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



13, 18.639, 38.581



13, 18.639, 88.581



13, 18.639, 218.581



13, 18.639, 268.581

Sweetspot

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



13, 18.638, 38.585



26, 5.759, 37.572



12, 26.257, 333.774



11, 3.859, 37.575



67, 0.008, 296.813



14, 0.003, 296.813

Same Dimension

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



13, 18.638, 38.585



16, 28.654, 39.511



19, 18.775, 84.700



9, 1.247, 37.542



19, 43.276, 40.770



48, 89.415, 42.804

Inverse Universe

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



18, 11.884, 221.795



23, 15.902, 224.591



11, 19.072, 283.716



10, 1.193, 218.014



29, 20.653, 229.585



67, 39.001, 232.739

Previews

White Background



This preview shows how the CIE LCh color 13, 18.639, 38.581 looks on a white background.

Color Contrast Check

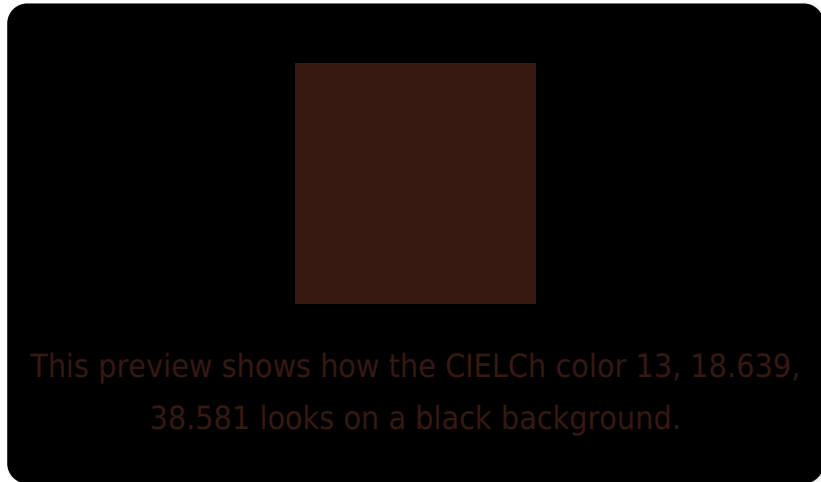
Large Text (above 18pt) WCAG AA ✓ Pass

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

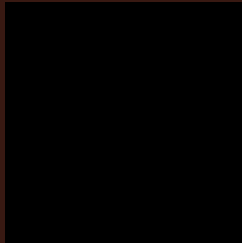
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 13, 18.639, 38.581

Background



This preview shows how black text looks on a background with the CIELCh color 13, 18.639, 38.581.

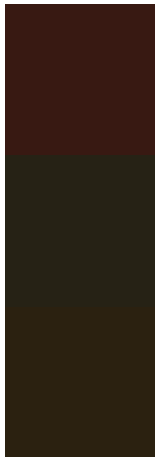


This preview shows how white text looks on a background with the CIELCh color 13, 18.639, 38.581.

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, 18.639, 38.581

Protanopia

13, 9.483, 93.977

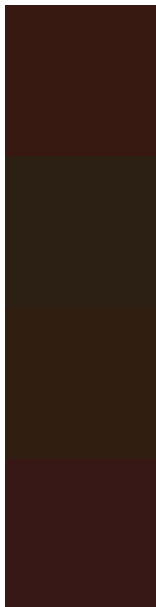
Deuteranopia

13, 13.069, 81.040



Tritanopia
13, 17.320, 22.623

Trichromacy



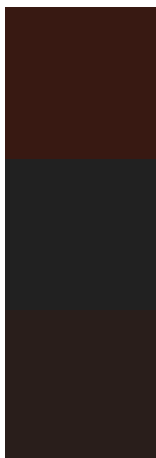
Original Color
13, 18.639, 38.581

Protanomaly
13, 10.884, 65.563

Deuteranomaly
13, 13.990, 60.144

Tritanomaly
13, 17.915, 29.215

Monochromacy



Original Color
13, 18.639, 38.581

Achromatopsia
13, 0.003, 296.813

Achromatomaly
12, 6.301, 40.660

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 13, 18.639, 38.581 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(56, 25, 18)` looks like.

```
.text, #text, p{  
    color:rgb(56, 25, 18)  
}
```

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(56, 25, 18) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(56, 25, 18) }
```

Border

The CSS property to change the border of an element to CIELCh 13, 18.639, 38.581 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(56, 25, 18) }
```

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

```
.border{ border-color:rgb(56, 25, 18) }
```

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

Here you see how a box with a 4 pixel rgb(56, 25, 18) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(56, 25, 18); -webkit-box-  
shadow:4px 4px 4px 4px rgb(56, 25, 18);  
box-shadow:4px 4px 4px 4px rgb(56, 25, 18)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 13, 18.639, 38.581 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(56, 25, 18) }
```

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

```
.background{ background-color: rgb(56, 25,  
18) }
```

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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