

Converting Colors

CIELCh(13, 22.366, 23.450)

Have a look what the booklet for
CIELCh(13, 22.366, 23.450) contains.

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Color

CIELCh(13, 22.212, 23.607)

Conversions

Conversions Part 1

Format	Color
Hex	3D1416
RGB	61, 20, 22
RGB Percent	24%, 8%, 9%
CMY	0.7601, 0.9209, 0.9131
CMYK	0.00, 0.67, 0.64, 0.76
HSL	357°, 50%, 16%
HSV	357°, 67%, 24%
XYZ	2.3351, 1.5625, 0.9451
YIQ	32.4870, 23.7940, 9.3140

Conversions

Conversions Part 2

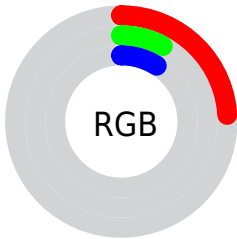
Format	Color
R_{YB}	61, 20, 22
Decimal	4002838
CIE Lab	13.00, 20.35, 8.90
CIE LCh	13, 22.212, 23.607
Yxy	1.5625, 0.4822, 0.3226
Android (android.graphics.Color)	4282192918 (0xFF3D1416)
YUV	32.4870, -5.1701, 25.0059
Hunter-Lab	12.5000, 11.4699, 4.2670

Details

The CIELCh color **13, 22.212, 23.607** is a dark color, and the websafe version is hex **330000**. A complement of this color would be **23, 15.010, 191.737**, and the grayscale version is **13, 0.003, 296.813**.

A 20% lighter version of the original color is **33, 21.859, 24.777**, and **0, 0.000, 0.000** is the 20% darker color. If you saturate the color by 10%, you get **12, 25.547, 24.953**, and if you desaturate by 10%, it is **15, 18.569, 21.529**.

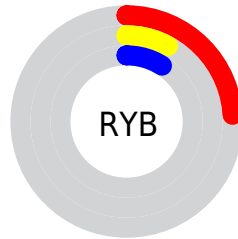
Distribution



 Red (24%)

 Green (8%)

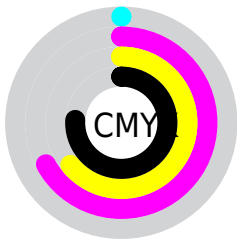
 Blue (9%)



 Red (24%)

 Yellow (8%)

 Blue (9%)

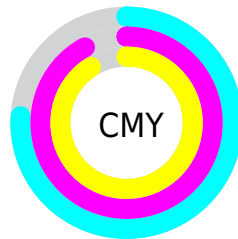


 Cyan (0%)

 Magenta (67%)

 Yellow (64%)

 Black (76%)



 Cyan (76%)

 Magenta (92%)

 Yellow (91%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 13, 22.212, 23.607 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, 22.212, 23.607 by changing the saturation by 10% instead.

 13, 22.212, 23.607

 13, 22.212, 23.607

 100, 22.212,
23.607

 3, 22.212, 23.607

 33, 22.212, 23.607

 0, 22.212, 23.607

 43, 22.212, 23.607

 53, 22.212, 23.607

 63, 22.212, 23.607

 73, 22.212, 23.607

 83, 22.212, 23.607

 93, 22.212, 23.607

■ 13, 22.212, 23.607

■ 13, 22.212, 23.607

■ 12, 25.547, 24.953

■ 15, 18.569, 21.529

■ 11, 28.295, 25.253

■ 16, 14.969, 19.852

■ 9, 30.992, 24.500

■ 18, 11.477, 18.503

■ 9, 31.842, 24.192

■ 20, 8.136, 17.409

■ 22, 4.972, 16.507

■ 24, 1.991, 15.709

■ 26, 0.809, 195.515

■ 29, 3.437, 194.782

■ 31, 5.905, 194.321

Harmonies

Complementary

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



13, 22.212, 23.607



23, 15.010, 191.737

Rectangle

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



13, 22.212, 23.607



13, 22.212, 73.607



13, 22.212, 203.607



13, 22.212, 253.607

Sweetspot

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



13, 22.211, 23.610



28, 7.311, 16.834



14, 31.338, 325.828



13, 5.050, 16.930



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, 22.211, 23.610



16, 33.241, 27.950



18, 18.360, 63.219



10, 1.576, 15.821



17, 46.279, 32.951



46, 92.197, 38.458

Inverse Universe

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



13, 22.211, 23.610



16, 33.241, 27.950



16, 14.599, 261.474



10, 1.576, 15.821



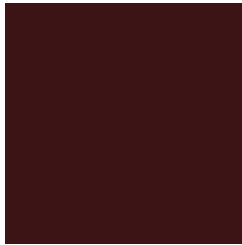
17, 46.279, 32.951



46, 92.197, 38.458

Previews

White Background



This preview shows how the CIELCh color 13, 22.212, 23.607 looks on a white background.

Color Contrast Check

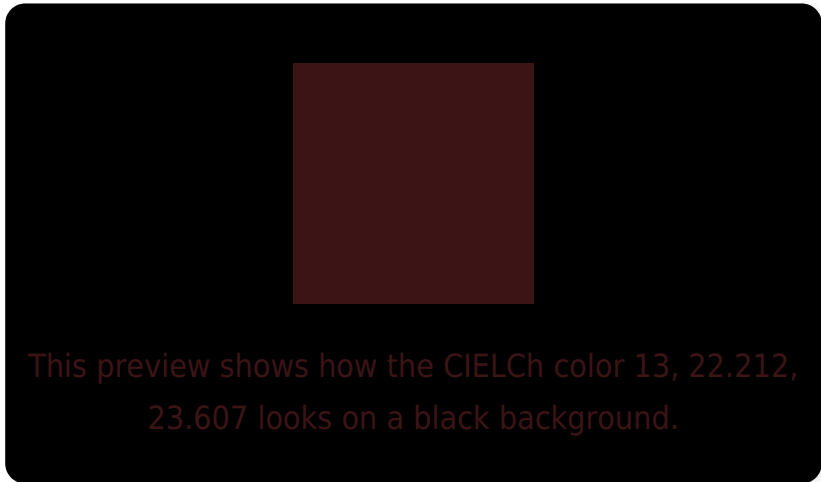
Large Text (above 18pt) WCAG AA ✓ Pass

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

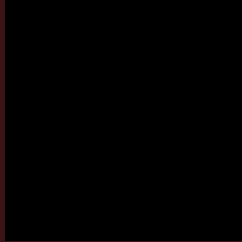
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 13, 22.212, 23.607

Background



This preview shows how black text looks on a background with the CIELCh color 13, 22.212, 23.607.



This preview shows how white text looks on a background with the CIELCh color 13, 22.212, 23.607.

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, 22.212, 23.607

Protanopia

14, 5.078, 96.826

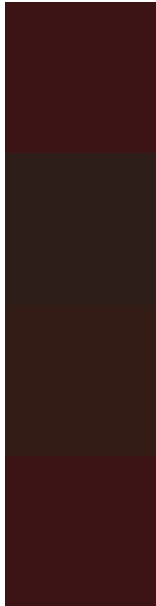
Deuteranopia

14, 10.882, 76.425



Tritanopia
13, 22.403, 25.280

Trichromacy



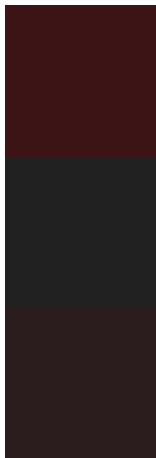
Original Color
13, 22.212, 23.607

Protanomaly
13, 9.236, 39.317

Deuteranomaly
13, 13.608, 43.462

Tritanomaly
13, 22.403, 25.280

Monochromacy



Original Color
13, 22.212, 23.607

Achromatopsia
13, 0.003, 296.813

Achromatomaly
12, 7.913, 16.547

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 13, 22.212, 23.607 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(61, 20, 22)` looks like.

```
.text, #text, p{  
    color:rgb(61, 20, 22)  
}
```

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(61, 20, 22) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(61, 20, 22) }
```

Border

The CSS property to change the border of an element to CIELCh 13, 22.212, 23.607 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(61, 20, 22) }
```

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

```
.border{ border-color:rgb(61, 20, 22) }
```

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

Here you see how a box with a 4 pixel rgb(61, 20, 22) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(61, 20, 22); -webkit-box-  
shadow:4px 4px 4px 4px rgb(61, 20, 22);  
box-shadow:4px 4px 4px 4px rgb(61, 20, 22)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 13, 22.212, 23.607 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(61, 20, 22) }
```

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

```
.background{ background-color: rgb(61, 20,  
22) }
```

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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