

Converting Colors

CIELCh(13, 2.289, 198.971)

Have a look what the booklet for
CIELCh(13, 2.289, 198.971) contains.

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Color

CIELCh(13, 1.929, 199.007)

Conversions

Conversions Part 1

Format	Color
Hex	1E2222
RGB	30, 34, 34
RGB Percent	12%, 13%, 13%
CMY	0.8810, 0.8653, 0.8653
CMYK	0.12, 0.00, 0.00, 0.87
HSL	180°, 6%, 13%
HSV	180°, 12%, 13%
XYZ	1.4210, 1.5625, 1.7662
YIQ	32.8040, -2.3840, -0.8480

Conversions

Conversions Part 2

Format	Color
RYB	30, 32, 34
Decimal	1974818
CIELab	13.00, -1.82, -0.63
CIElCh	13, 1.929, 199.007
Yxy	1.5625, 0.2992, 0.3290
Android (android.graphics.Color)	4280164898 (0xFF1E2222)
YUV	32.8040, 0.5896, -2.4591
Hunter-Lab	12.5000, -1.5824, 0.3724

Details

The CIELCh color **13, 1.929, 199.007** is a dark color, and the websafe version is hex **333333**. A complement of this color would be **12, 2.039, 19.864**, and the grayscale version is **13, 0.003, 296.813**.

A 20% lighter version of the original color is **33, 1.711, 199.313**, and **0, 0.000, 0.000** is the 20% darker color. If you saturate the color by 10%, you get **13, 3.510, 198.563**, and if you desaturate by 10%, it is **13, 0.279, 199.918**.

Distribution



Red (12%)

Green (13%)

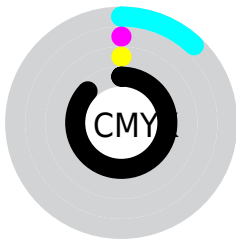
Blue (13%)



Red (12%)

Yellow (13%)

Blue (13%)



Cyan (12%)

Magenta (0%)

Yellow (0%)

Black (87%)



Cyan (88%)

Magenta (87%)

Yellow (87%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 13, 1.929, 199.007 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, 1.929, 199.007 by changing the saturation by 10% instead.

■ 13, 1.929, 199.007

■ 13, 1.929, 199.007

■ 100, 1.929,
199.007

■ 3, 1.929, 199.007

■ 0, 1.929, 199.007

■ 33, 1.929, 199.007

■ 43, 1.929, 199.007

■ 53, 1.929, 199.007

■ 63, 1.929, 199.007

■ 73, 1.929, 199.007

■ 83, 1.929, 199.007

■ 93, 1.929, 199.007

■ 13, 1.929, 199.007

■ 13, 1.929, 199.007

■ 13, 3.510, 198.563

■ 13, 0.279, 199.918

■ 12, 5.007, 198.183

■ 14, 1.426, 19.630

■ 12, 6.404, 197.839

■ 14, 3.173, 20.140

■ 12, 7.686, 197.529

■ 15, 4.951, 20.616

■ 12, 8.838, 197.255

■ 15, 6.750, 21.091

■ 12, 9.847, 197.017

■ 15, 8.562, 21.567

■ 11, 10.816,
196.792

■ 16, 10.380, 22.045

■ 11, 11.826,
196.560

■ 16, 12.199, 22.523

■ 11, 12.701,
196.361

■ 17, 14.014, 22.999

Harmonies

Complementary

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



13, 1.929, 199.007



12, 2.039, 19.864

Rectangle

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



13, 1.929, 199.007



13, 1.929, 249.007



13, 1.929, 19.007



13, 1.929, 69.007

Sweetspot

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



13, 1.929, 198.992



19, 0.645, 199.560



13, 3.500, 143.516



8, 0.457, 199.676



62, 0.008, 296.813



8, 0.002, 296.812

Same Dimension

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



13, 1.929, 198.992



18, 2.946, 198.836



12, 1.702, 254.783



5, 0.706, 199.517



31, 21.911, 196.356



76, 43.156, 196.353

Inverse Universe

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



12, 2.039, 19.864



17, 3.167, 20.071



13, 1.740, 72.473



5, 0.706, 19.273



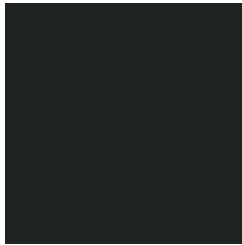
14, 41.507, 32.466



44, 90.030, 39.992

Previews

White Background



This preview shows how the CIELCh color 13, 1.929, 199.007 looks on a white background.

Color Contrast Check

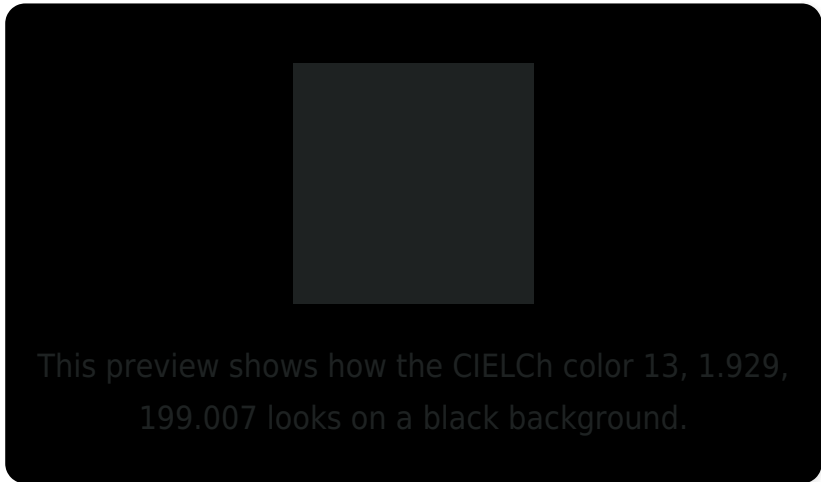
Large Text (above 18pt) WCAG AA ✓ Pass

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

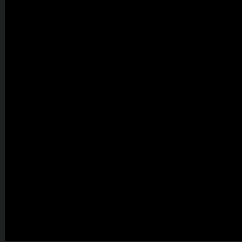
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

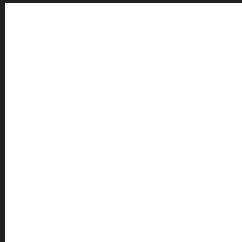
If you want to check with other color combinations, try the [Color Contrast Checker](#).

CIELCh 13, 1.929, 199.007

Background



This preview shows how black text looks on a background with the CIELCh color 13, 1.929, 199.007.

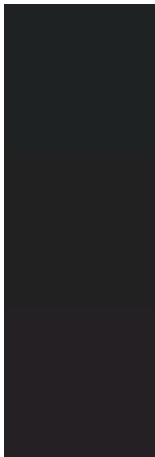


This preview shows how white text looks on a background with the CIELCh color 13, 1.929, 199.007.

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

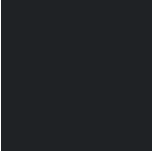
13, 1.929, 199.007

Protanopia

13, 0.879, 324.475

Deuteranopia

13, 2.936, 332.858



Tritanopia
13, 2.550, 257.138

Trichromacy



Original Color

13, 1.929, 199.007

Protanomaly

13, 0.722, 290.420

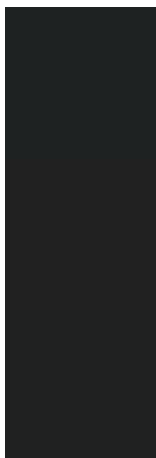
Deuteranomaly

13, 1.527, 309.235

Tritanomaly

13, 2.003, 245.163

Monochromacy



Original Color

13, 1.929, 199.007

Achromatopsia

13, 0.003, 296.813

Achromatomaly

13, 0.492, 199.613

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 13, 1.929, 199.007 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(30, 34, 34)` looks like.

```
.text, #text, p{  
    color:rgb(30, 34, 34)  
}
```

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(30, 34, 34) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(30, 34, 34) }
```

Border

The CSS property to change the border of an element to CIELCh 13, 1.929, 199.007 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(30, 34, 34) }
```

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

```
.border{ border-color:rgb(30, 34, 34) }
```

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

Here you see how a box with a 4 pixel `rgb(30, 34, 34)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(30, 34, 34); -webkit-box-  
shadow:4px 4px 4px 4px rgb(30, 34, 34);  
box-shadow:4px 4px 4px 4px rgb(30, 34, 34)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 13, 1.929, 199.007 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(30, 34, 34) }
```

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

```
.background{ background-color: rgb(30, 34,  
34) }
```

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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