

Converting Colors

CIELCh(19, 12.610, 21.731)

Have a look what the booklet for
CIELCh(19, 12.610, 21.731) contains.

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Color

CIELCh(19, 12.181, 22.264)

Conversions

Conversions Part 1

Format	Color
Hex	402828
RGB	64, 40, 40
RGB Percent	25%, 16%, 16%
CMY	0.7496, 0.8436, 0.8436
CMYK	0.00, 0.38, 0.38, 0.75
HSL	360°, 23%, 20%
HSV	360°, 38%, 25%
XYZ	3.2408, 2.7468, 2.3558
YIQ	47.1760, 14.3040, 5.0880

Conversions

Conversions Part 2

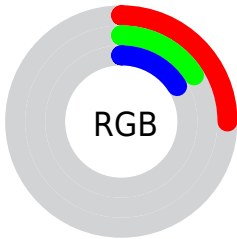
Format	Color
RYB	64, 40, 40
Decimal	4204584
CIELab	19.00, 11.27, 4.62
CIElCh	19, 12.181, 22.264
Yxy	2.7468, 0.3884, 0.3292
Android (android.graphics.Color)	4282394664 (0xFF402828)
YUV	47.1760, -3.5378, 14.7546
Hunter-Lab	16.5735, 5.9008, 3.1740

Details

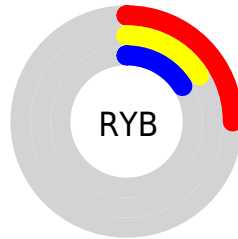
The CIELCh color **19, 12.181, 22.264** is a dark color, and the websafe version is hex **333333**. A complement of this color would be **25, 9.708, 197.803**, and the grayscale version is **19, 0.004, 296.813**.

A 20% lighter version of the original color is **39, 12.450, 21.178**, and **1, 5.120, 19.405** is the 20% darker color. If you saturate the color by 10%, you get **17, 15.897, 23.566**, and if you desaturate by 10%, it is **21, 8.650, 21.239**.

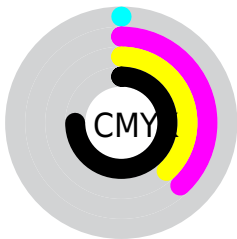
Distribution



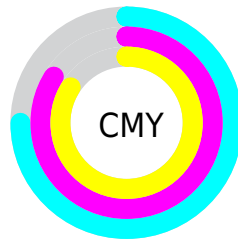
- Red (25%)
- Green (16%)
- Blue (16%)



- Red (25%)
- Yellow (16%)
- Blue (16%)



- Cyan (0%)
- Magenta (38%)
- Yellow (38%)
- Black (75%)




- Cyan (75%)
- Magenta (84%)
- Yellow (84%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 19, 12.181, 22.264 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 19, 12.181, 22.264 by changing the saturation by 10% instead.


 19, 12.181, 22.264

 19, 12.181, 22.264

 100, 12.181,
22.264

 9, 12.181, 22.264

 39, 12.181, 22.264

 0, 12.181, 22.264

 49, 12.181, 22.264

 59, 12.181, 22.264

 69, 12.181, 22.264

 79, 12.181, 22.264

 89, 12.181, 22.264

 99, 12.181, 22.264

■ 19, 12.181, 22.264

■ 19, 12.181, 22.264

■ 17, 15.897, 23.566

■ 21, 8.650, 21.239

■ 15, 19.756, 25.204

■ 23, 5.327, 20.412

■ 14, 23.674, 27.187

■ 25, 2.216, 19.702

■ 12, 27.145, 28.046

■ 28, 0.690, 199.651

■ 11, 29.932, 27.976

■ 30, 3.403, 198.946

■ 10, 32.705, 27.424

■ 32, 5.940, 198.572

■ 10, 33.419, 27.220

■ 34, 8.317, 198.278

■ 37, 10.551,
198.037

■ 39, 12.659,
197.836

Harmonies

Complementary

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



19, 12.181, 22.264



25, 9.708, 197.803

Rectangle

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



19, 12.181, 22.264



19, 12.181, 72.264



19, 12.181, 202.264



19, 12.181, 252.264

Sweetspot

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



19, 12.180, 22.268



33, 4.111, 19.978



20, 19.132, 325.732



16, 2.791, 20.012



70, 0.009, 296.813



18, 0.003, 296.813

Same Dimension

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



19, 12.180, 22.268



24, 18.894, 23.491



22, 10.066, 69.597



12, 1.688, 19.774



18, 48.294, 35.260



47, 94.946, 40.000

Inverse Universe

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



19, 12.180, 22.268



24, 18.894, 23.491



21, 9.094, 258.828



12, 1.688, 19.774



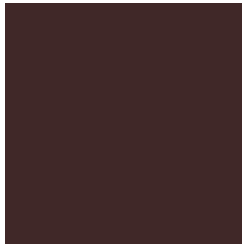
18, 48.294, 35.260



47, 94.946, 40.000

Previews

White Background



This preview shows how the CIE LCh color 19, 12.181, 22.264 looks on a white background.

Color Contrast Check

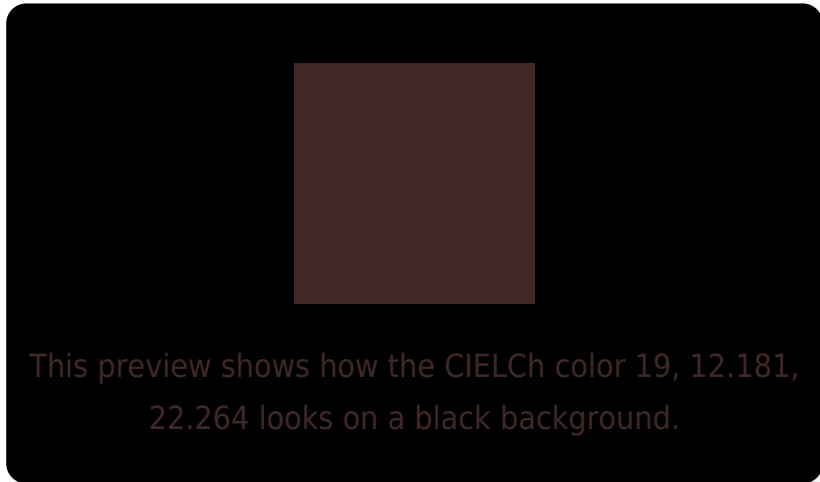
Large Text (above 18pt) WCAG AA ✓ Pass

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

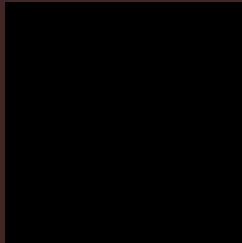
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 19, 12.181, 22.264

Background



This preview shows how black text looks on a background with the CIELCh color 19, 12.181, 22.264.

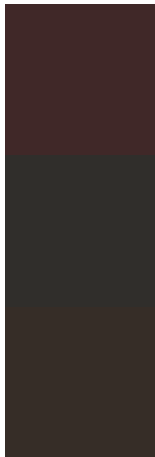


This preview shows how white text looks on a background with the CIELCh color 19, 12.181, 22.264.

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

19, 12.181, 22.264

Protanopia

19, 2.259, 84.288

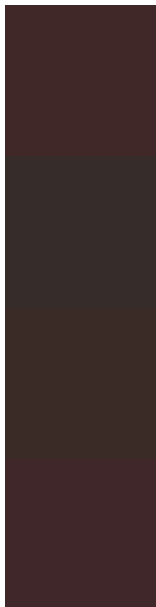
Deuteranopia

19, 6.145, 61.502



Tritanopia
19, 12.604, 13.316

Trichromacy



Original Color

19, 12.181, 22.264

Protanomaly

19, 5.147, 35.679

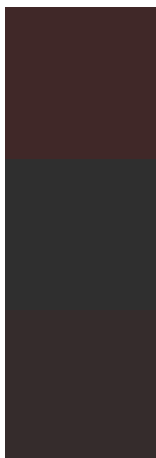
Deuteranomaly

19, 8.153, 40.274

Tritanomaly

19, 12.614, 16.380

Monochromacy



Original Color

19, 12.181, 22.264

Achromatopsia

19, 0.004, 296.813

Achromatomaly

19, 4.387, 20.325

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 19, 12.181, 22.264 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(64, 40, 40)` looks like.

```
.text, #text, p{  
    color:rgb(64, 40, 40)  
}
```

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(64, 40, 40) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(64, 40, 40) }
```

Border

The CSS property to change the border of an element to CIELCh 19, 12.181, 22.264 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(64, 40, 40) }
```

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

```
.border{ border-color:rgb(64, 40, 40) }
```

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

Here you see how a box with a 4 pixel `rgb(64, 40, 40)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(64, 40, 40); -webkit-box-  
shadow:4px 4px 4px 4px rgb(64, 40, 40);  
box-shadow:4px 4px 4px 4px rgb(64, 40, 40)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 19, 12.181, 22.264 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(64, 40, 40) }
```

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

```
.background{ background-color: rgb(64, 40,  
40) }
```

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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