

Converting Colors

CIELCh(12, 13.810, 135.533)

Have a look what the booklet for
CIELCh(12, 13.810, 135.533)
contains.

CIELCh(12, 13.738, 136.295)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	21
<i>Color Blindness Simulation</i>	24
<i>CSS Examples</i>	27

Color

CIELCh(12, 13.738, 136.295)

Conversions

Conversions Part 1

Format	Color
Hex	162312
RGB	22, 35, 18
RGB Percent	9%, 14%, 7%
CMY	0.9142, 0.8633, 0.9300
CMYK	0.37, 0.00, 0.49, 0.86
HSL	106°, 32%, 10%
HSV	106°, 49%, 14%
XYZ	1.0331, 1.4064, 0.7829
YIQ	29.1750, -2.2910, -8.0430

Conversions

Conversions Part 2

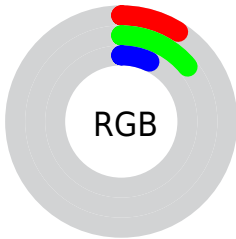
Format	Color
RYB	18, 35, 31
Decimal	1450770
CIELab	12.00, -9.93, 9.49
CIELCh	12, 13.738, 136.295
Yxy	1.4064, 0.3206, 0.4364
Android (android.graphics.Color)	4279640850 (0xFF162312)
YUV	29.1750, -5.5093, -6.2925
Hunter-Lab	11.8591, -5.2028, 4.3874

Details

The CIELCh color **12, 13.738, 136.295** is a dark color, and the websafe version is hex **003333**. A complement of this color would be **8, 14.112, 319.253**, and the grayscale version is **11, 0.003, 296.813**.

A 20% lighter version of the original color is **32, 13.546, 135.865**, and **0, 0.000, 0.000** is the 20% darker color. If you saturate the color by 10%, you get **12, 16.168, 136.875**, and if you desaturate by 10%, it is **12, 11.054, 136.219**.

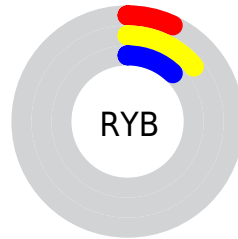
Distribution



Red (9%)

Green (14%)

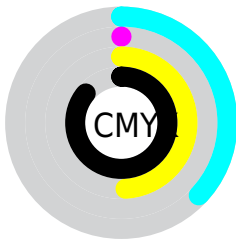
Blue (7%)



Red (7%)

Yellow (14%)

Blue (12%)

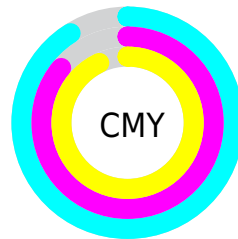


Cyan (37%)

Magenta (0%)

Yellow (49%)

Black (86%)



Cyan (91%)

Magenta (86%)

Yellow (93%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 12, 13.738, 136.295 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 12, 13.738, 136.295 by changing the saturation by 10% instead.

■ 12, 13.738,
136.295

■ 12, 13.738,
136.295

■ 100, 13.738,
136.295

■ 2, 13.738, 136.295

■ 32, 13.738,
136.295

■ 0, 13.738, 136.295

■ 42, 13.738,
136.295


■ 52, 13.738,
136.295


■ 62, 13.738,
136.295


■ 72, 13.738,
136.295


■ 82, 13.738,


136.295


 92, 13.738,
136.295

 12, 13.738,
136.295


 12, 13.738,
136.295

 12, 16.168,
136.875

 12, 11.054,
136.219


 12, 18.339,
137.696

 13, 8.208, 136.649


 11, 20.315,
138.513

 13, 5.348, 137.054

 13, 2.493, 137.433

 11, 22.205,
138.928

 14, 0.342, 317.562

 11, 24.016,
139.044

 14, 3.146, 318.020

■ 11, 24.232,
139.053

■ 15, 5.912, 318.296

■ 15, 8.634, 318.537

■ 15, 11.307,
318.751

Harmonies

Complementary

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



12, 13.738, 136.295



8, 14.112, 319.253

Rectangle

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



12, 13.738, 136.295



12, 13.738, 186.295



12, 13.738, 316.295



12, 13.738, 6.295

Sweetspot

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



12, 13.738, 136.296



18, 5.389, 137.158



12, 9.258, 92.731



7, 3.201, 138.168



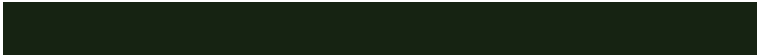
62, 0.008, 296.813



8, 0.002, 296.812

Same Dimension

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



12, 13.738, 136.296



17, 20.985, 135.055



12, 12.496, 149.262



5, 1.167, 137.950



30, 50.448, 133.165



74, 100.744, 134.264

Inverse Universe

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



8, 14.112, 319.253



10, 21.508, 319.724



8, 12.581, 334.913



5, 1.165, 317.452



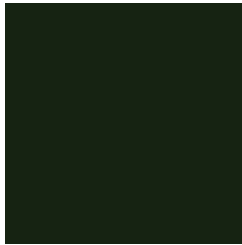
13, 51.616, 320.102



41, 102.007, 319.372

Previews

White Background



This preview shows how the CIELCh color 12, 13.738, 136.295 looks on a white background.

Color Contrast Check

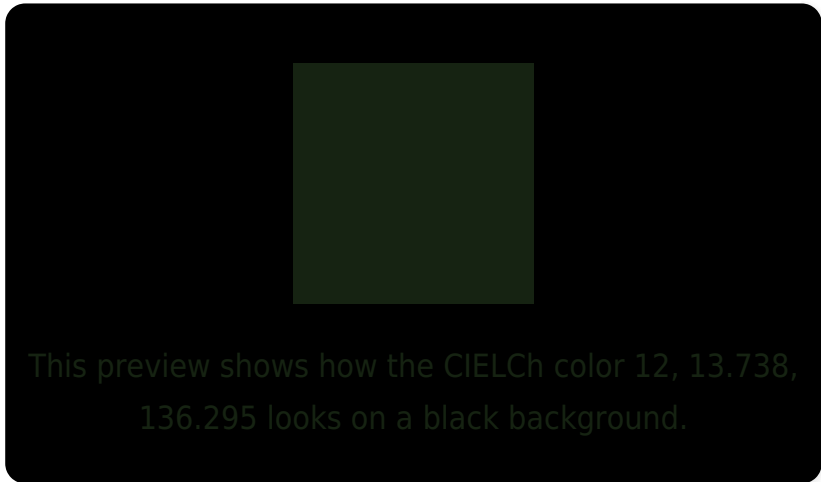
Large Text (above 18pt) WCAG AA ✓ Pass

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

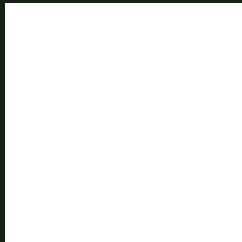
If you want to check with other color combinations, try the [Color Contrast Checker](#).

CIELCh 12, 13.738, 136.295

Background



This preview shows how black text looks on a background with the CIELCh color 12, 13.738, 136.295.

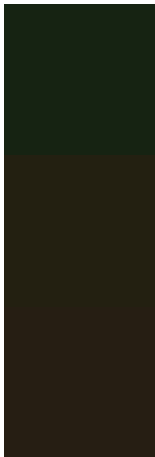


This preview shows how white text looks on a background with the CIELCh color 12, 13.738, 136.295.

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

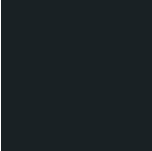
12, 13.738, 136.295

Protanopia

12, 10.525, 98.081

Deuteranopia

12, 9.065, 78.153



Tritanopia
12, 4.192, 230.032

Trichromacy



Original Color

12, 13.738, 136.295

Protanomaly

12, 11.192, 115.606

Deuteranomaly

12, 9.177, 107.481

Tritanomaly

12, 6.122, 161.688

Monochromacy



Original Color

12, 13.738, 136.295

Achromatopsia

11, 0.003, 296.813

Achromatomaly

11, 5.085, 139.108

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 12, 13.738, 136.295 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(22, 35, 18)` looks like.

```
.text, #text, p{  
    color:rgb(22, 35, 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(22, 35, 18) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(22, 35, 18) }
```

Border

The CSS property to change the border of an element to CIELCh 12, 13.738, 136.295 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(22, 35, 18) }
```

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

```
.border{ border-color:rgb(22, 35, 18) }
```

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

Here you see how a box with a 4 pixel `rgb(22, 35, 18)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(22, 35, 18); -webkit-box-  
shadow:4px 4px 4px 4px rgb(22, 35, 18);  
box-shadow:4px 4px 4px 4px rgb(22, 35, 18)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 12, 13.738, 136.295 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(22, 35, 18) }
```

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

```
.background{ background-color: rgb(22, 35,  
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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