

Converting Colors

CIELCh(12, 52.568, 95.710)

Have a look what the booklet for
CIELCh(12, 52.568, 95.710) contains.

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Color

CIELCh(12, 18.521, 104.888)

Conversions

Conversions Part 1

Format	Color
Hex	222100
RGB	34, 33, 0
RGB Percent	13%, 13%, 0%
CMY	0.8676, 0.8717, 1.0000
CMYK	0.00, 0.03, 1.00, 0.87
HSL	58°, 100%, 7%
HSV	58°, 100%, 13%
XYZ	1.1848, 1.4064, 0.1951
YIQ	29.5370, 11.1890, -10.0510

Conversions

Conversions Part 2

Format	Color
R_{YB}	1, 34, 0
Decimal	2236672
CIE Lab	12.00, -4.76, 17.90
CIE LCh	12, 18.521, 104.888
Yxy	1.4064, 0.4252, 0.5048
Android (android.graphics.Color)	4280426752 (0xFF222100)
YUV	29.5370, -14.5617, 3.9141
Hunter-Lab	11.8591, -2.9207, 7.3260

Details

The CIELCh color **12, 18.521, 104.888** is a dark color, and the websafe version is hex **333300**. A complement of this color would be **1, 19.519, 290.456**, and the grayscale version is **11, 0.003, 296.813**.

A 20% lighter version of the original color is **32, 18.627, 105.293**, and **0, 0.000, 0.000** is the 20% darker color. If you saturate the color by 10%, you get **12, 18.326, 104.872**, and if you desaturate by 10%, it is **12, 17.030, 104.926**.

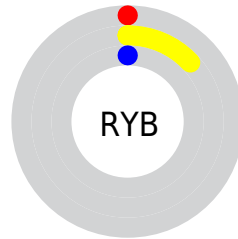
Distribution



Red (13%)

Green (13%)

Blue (0%)



Red (0%)

Yellow (13%)

Blue (0%)

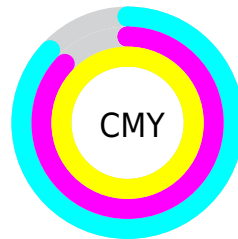


Cyan (0%)

Magenta (3%)

Yellow (100%)

Black (87%)



Cyan (87%)

Magenta (87%)

Yellow (100%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 12, 18.521, 104.888 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, 18.521, 104.888 by changing the saturation by 10% instead.

■ 12, 18.521,
104.888

■ 12, 18.521,
104.888

■ 100, 18.521,
104.888

■ 2, 18.521, 104.888

■ 32, 18.521,
104.888

■ 0, 18.521, 104.888

■ 42, 18.521,
104.888


■ 52, 18.521,
104.888

■ 62, 18.521,
104.888


■ 72, 18.521,
104.888


■ 82, 18.521,

104.888


 92, 18.521,
104.888


 12, 18.521,
104.888


 12, 18.521,
104.888


 12, 18.326,
104.872

 12, 17.030,
104.926

 12, 15.735,
105.012

 12, 14.441,
105.137

 12, 13.004,
105.306

 12, 11.285,
105.553

■ 13, 9.273, 105.966

■ 13, 7.000, 106.671

■ 13, 4.677, 107.423

■ 13, 2.340, 108.167

Harmonies

Complementary

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



12, 18.521, 104.888



1, 19.519, 290.456

Rectangle

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



12, 18.521, 104.888



12, 18.521, 154.888



12, 18.521, 284.888



12, 18.521, 334.888

Sweetspot

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



12, 18.326, 104.872



17, 8.661, 106.515



3, 14.448, 17.605



7, 4.972, 108.685



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, 18.326, 104.872



16, 24.243, 102.840



11, 21.303, 131.002



5, 0.992, 108.851



33, 41.480, 101.030



80, 81.534, 100.845

Inverse Universe

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



1, 19.519, 290.456



2, 26.979, 293.357



2, 20.611, 304.311



5, 0.997, 288.977



6, 55.721, 304.803



26, 113.879, 305.967

Previews

White Background



This preview shows how the CIELCh color 12, 18.521, 104.888 looks on a white background.

Color Contrast Check

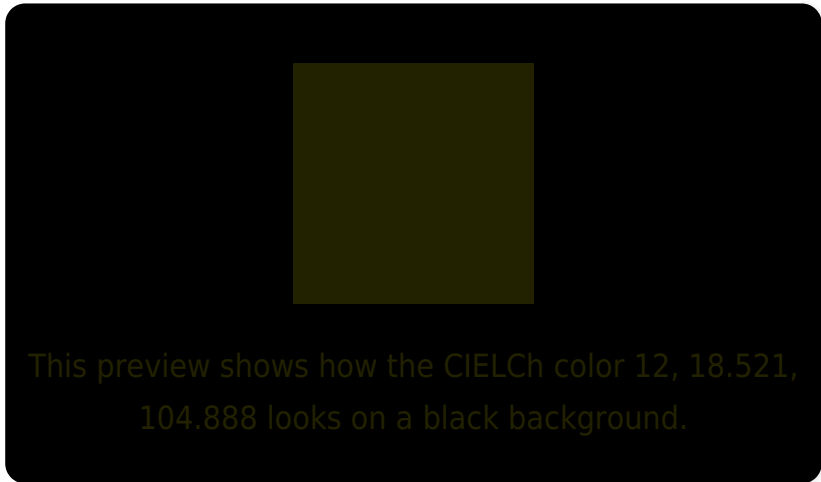
Large Text (above 18pt) WCAG AA ✓ Pass

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

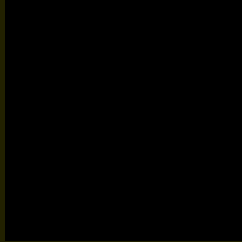
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 12, 18.521, 104.888

Background



This preview shows how black text looks on a background with the CIELCh color 12, 18.521, 104.888.

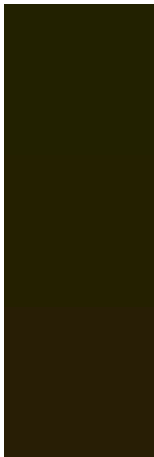


This preview shows how white text looks on a background with the CIELCh color 12, 18.521, 104.888.

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, 18.521, 104.888

Protanopia

12, 17.996, 99.288

Deuteranopia

12, 15.704, 85.071



Tritanopia
12, 3.712, 344.703

Trichromacy



Original Color
12, 18.521, 104.888

Protanomaly
12, 17.923, 101.236

Deuteranomaly
12, 16.507, 92.489

Tritanomaly
12, 7.524, 90.934

Monochromacy



Original Color
12, 18.521, 104.888

Achromatopsia
11, 0.003, 296.813

Achromatomaly
11, 8.435, 104.090

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 12, 18.521, 104.888 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(34, 33, 0)` looks like.

```
.text, #text, p{  
    color:rgb(34, 33, 0)  
}
```

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(34, 33, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(34, 33, 0) }
```

Border

The CSS property to change the border of an element to CIELCh 12, 18.521, 104.888 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(34, 33, 0) }
```

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

```
.border{ border-color:rgb(34, 33, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(34, 33, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(34, 33, 0); -webkit-box-shadow:4px  
4px 4px 4px rgb(34, 33, 0); box-shadow:4px  
4px 4px 4px rgb(34, 33, 0) }
```

Background

The CSS property to change the background color of an element to CIELCh 12, 18.521, 104.888 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(34, 33, 0) }
```

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

```
.background{ background-color: rgb(34, 33,  
0) }
```

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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