

Converting Colors

CIELCh(15, 47.309, 90.238)

Have a look what the booklet for
CIELCh(15, 47.309, 90.238) contains.

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Color

CIELCh(15, 22.298, 88.414)

Conversions

Conversions Part 1

Format	Color
Hex	302500
RGB	48, 37, 0
RGB Percent	19%, 15%, 0%
CMY	0.8136, 0.8568, 1.0000
CMYK	0.00, 0.23, 1.00, 0.81
HSL	46°, 100%, 9%
HSV	46°, 100%, 19%
XYZ	1.8393, 1.9086, 0.2498
YIQ	36.0710, 18.4330, -9.1750

Conversions

Conversions Part 2

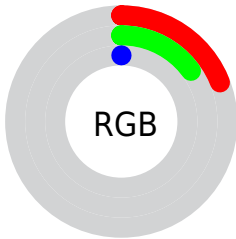
Format	Color
RYB	14, 48, 0
Decimal	3155200
CIELab	15.00, 0.62, 22.29
CIElCh	15, 22.298, 88.414
Yxy	1.9086, 0.4601, 0.4774
Android (android.graphics.Color)	4281345280 (0xFF302500)
YUV	36.0710, -17.7830, 10.4617
Hunter-Lab	13.8151, -0.4116, 8.5987

Details

The CIELCh color **15, 22.298, 88.414** is a dark color, and the websafe version is hex **333300**. A complement of this color would be **4, 26.004, 289.965**, and the grayscale version is **14, 0.003, 296.813**.

A 20% lighter version of the original color is **35, 22.079, 88.267**, and **0, 0.000, 0.000** is the 20% darker color. If you saturate the color by 10%, you get **15, 22.004, 88.235**, and if you desaturate by 10%, it is **15, 20.599, 89.140**.

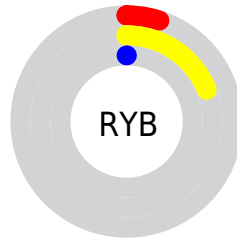
Distribution



Red (19%)

Green (15%)

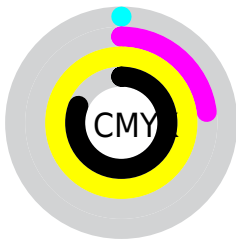
Blue (0%)



Red (5%)

Yellow (19%)

Blue (0%)

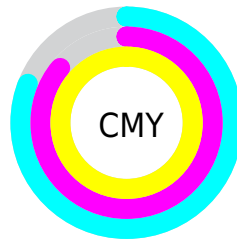


Cyan (0%)

Magenta (23%)

Yellow (100%)

Black (81%)



Cyan (81%)

Magenta (86%)

Yellow (100%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 15, 22.298, 88.414 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 15, 22.298, 88.414 by changing the saturation by 10% instead.

 15, 22.298, 88.414

 15, 22.298, 88.414

 100, 22.298,
88.414

 5, 22.298, 88.414

 35, 22.298, 88.414

 0, 22.298, 88.414

 45, 22.298, 88.414

 55, 22.298, 88.414

 65, 22.298, 88.414

 75, 22.298, 88.414

 85, 22.298, 88.414

 95, 22.298, 88.414

■ 15, 22.298, 88.414

■ 15, 22.298, 88.414

■ 15, 22.004, 88.235

■ 15, 20.599, 89.140

■ 16, 19.194, 90.190

■ 16, 17.580, 91.303

■ 17, 15.414, 92.360

■ 17, 12.870, 93.421

■ 18, 10.288, 94.465

■ 18, 7.696, 95.490

■ 19, 5.111, 96.490

■ 19, 2.543, 97.458

Harmonies

Complementary

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



15, 22.298, 88.414



4, 26.004, 289.965

Rectangle

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



15, 22.298, 88.414



15, 22.298, 138.414



15, 22.298, 268.414



15, 22.298, 318.414

Sweetspot

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



15, 22.004, 88.235



24, 9.525, 95.326



6, 24.758, 10.703



10, 6.216, 95.399



65, 0.008, 296.813



12, 0.003, 296.813

Same Dimension

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



15, 22.004, 88.235



20, 28.669, 87.456



18, 28.313, 118.265



7, 1.253, 97.884



29, 38.621, 86.593



70, 73.897, 84.871

Inverse Universe

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



4, 26.004, 289.965



6, 34.905, 295.886



3, 31.432, 302.024



7, 1.279, 278.972



10, 47.704, 298.914



32, 99.842, 301.605

Previews

White Background



This preview shows how the CIE LCh color 15, 22.298, 88.414 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



This preview shows how the CIELCh color 15, 22.298, 88.414 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

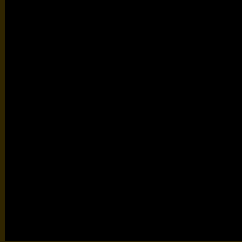
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 15, 22.298, 88.414

Background



This preview shows how black text looks on a background with the CIELCh color 15, 22.298, 88.414.

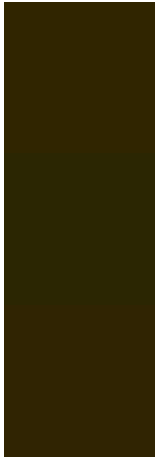


This preview shows how white text looks on a background with the CIELCh color 15, 22.298, 88.414.

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

15, 22.298, 88.414

Protanopia

15, 21.203, 97.453

Deuteranopia

15, 21.132, 86.021



Tritanopia
15, 7.810, 5.948

Trichromacy



Original Color

15, 22.298, 88.414

Protanomaly

15, 21.357, 92.727

Deuteranomaly

15, 21.518, 86.309

Tritanomaly

15, 10.692, 65.976

Monochromacy



Original Color

15, 22.298, 88.414

Achromatopsia

14, 0.003, 296.813

Achromatomaly

14, 9.412, 94.139

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 15, 22.298, 88.414 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(48, 37, 0)` looks like.

```
.text, #text, p{  
    color:rgb(48, 37, 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(48, 37, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(48, 37, 0) }
```

Border

The CSS property to change the border of an element to CIELCh 15, 22.298, 88.414 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(48, 37, 0) }
```

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

```
.border{ border-color:rgb(48, 37, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(48, 37, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(48, 37, 0); -webkit-box-shadow:4px  
4px 4px 4px rgb(48, 37, 0); box-shadow:4px  
4px 4px 4px rgb(48, 37, 0) }
```

Background

The CSS property to change the background color of an element to CIELCh 15, 22.298, 88.414 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(48, 37, 0) }
```

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

```
.background{ background-color: rgb(48, 37,  
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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