

Converting Colors

CIELCh(15, 49.300, 64.813)

Have a look what the booklet for
CIELCh(15, 49.300, 64.813) contains.

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Color

CIELCh(15, 31.141, 46.985)

Conversions

Conversions Part 1

Format	Color
Hex	461700
RGB	70, 23, 0
RGB Percent	27%, 9%, 0%
CMY	0.7258, 0.9101, 1.0000
CMYK	0.00, 0.67, 1.00, 0.73
HSL	20°, 100%, 14%
HSV	20°, 100%, 27%
XYZ	2.8241, 1.9086, 0.2162
YIQ	34.4310, 35.3950, 2.8110

Conversions

Conversions Part 2

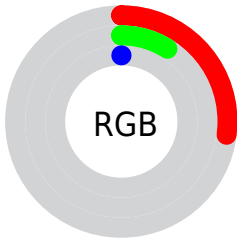
Format	Color
R_{YB}	70, 34, 0
Decimal	4593408
CIE _{Lab}	15.00, 21.24, 22.77
CIE _{LCh}	15, 31.141, 46.985
Yxy	1.9086, 0.5707, 0.3857
Android (android.graphics.Color)	4282783488 (0xFF461700)
YUV	34.4310, -16.9745, 31.1940
Hunter-Lab	13.8151, 12.3131, 8.7427

Details

The CIELCh color **15, 31.141, 46.985** is a dark color, and the websafe version is hex **330000**. A complement of this color would be **18, 19.104, 254.962**, and the grayscale version is **13, 0.003, 296.813**.

A 20% lighter version of the original color is **35, 30.969, 47.113**, and **0, 0.000, 0.000** is the 20% darker color. If you saturate the color by 10%, you get **15, 31.111, 46.924**, and if you desaturate by 10%, it is **16, 28.459, 48.518**.

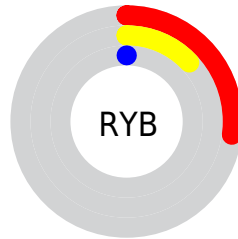
Distribution



Red (27%)

Green (9%)

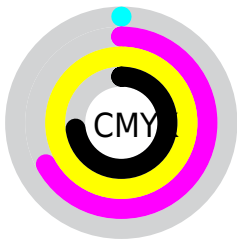
Blue (0%)



Red (27%)

Yellow (13%)

Blue (0%)

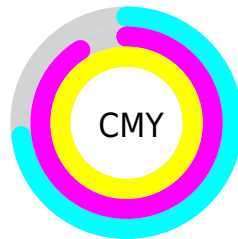


Cyan (0%)

Magenta (67%)

Yellow (100%)

Black (73%)



Cyan (73%)

Magenta (91%)


Yellow (100%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 15, 31.141, 46.985 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, 31.141, 46.985 by changing the saturation by 10% instead.

 15, 31.141, 46.985

 15, 31.141, 46.985

 100, 31.141,
46.985


 5, 31.141, 46.985

 35, 31.141, 46.985

 0, 31.141, 46.985

 45, 31.141, 46.985

 55, 31.141, 46.985

 65, 31.141, 46.985

 75, 31.141, 46.985

 85, 31.141, 46.985

 95, 31.141, 46.985

■ 15, 31.141, 46.985

■ 15, 31.141, 46.985

■ 15, 31.111, 46.924

■ 16, 28.459, 48.518

■ 17, 25.658, 50.507

■ 19, 22.108, 51.330

■ 20, 18.377, 51.656

■ 22, 14.823, 52.052

■ 23, 11.470, 52.524

■ 25, 8.320, 53.063

■ 26, 5.367, 53.653

■ 28, 2.598, 54.256

Harmonies

Complementary

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



15, 31.141, 46.985



18, 19.104, 254.962

Rectangle

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



15, 31.141, 46.985



15, 31.141, 96.985



15, 31.141, 226.985



15, 31.141, 276.985

Sweetspot

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



15, 31.111, 46.924



33, 10.472, 52.993



13, 36.742, 343.705



15, 7.084, 52.889



71, 0.009, 296.813



19, 0.004, 296.813

Same Dimension

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



15, 31.111, 46.924



21, 40.824, 48.839



24, 33.446, 90.929



13, 1.466, 54.334



23, 44.002, 49.190



53, 85.693, 48.371

Inverse Universe

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



18, 19.104, 254.962



24, 23.440, 257.237



7, 42.057, 299.452



13, 1.413, 235.781



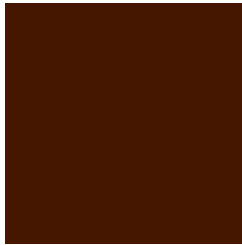
26, 24.914, 257.814



60, 47.355, 261.891

Previews

White Background



This preview shows how the CIE LCh color 15, 31.141, 46.985 looks on a white background.

Color Contrast Check

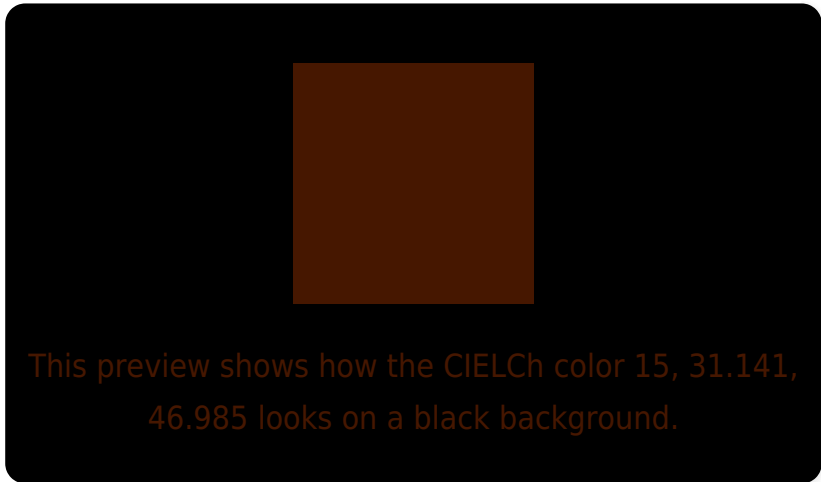
Large Text (above 18pt) WCAG AA ✓ Pass

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

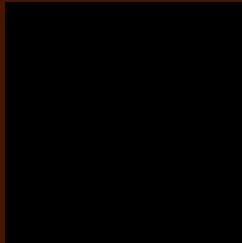
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 15, 31.141, 46.985

Background



This preview shows how black text looks on a background with the CIELCh color 15, 31.141, 46.985.

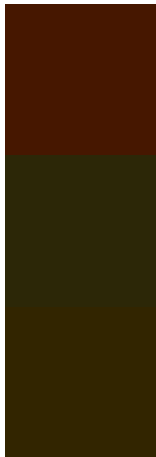


This preview shows how white text looks on a background with the CIELCh color 15, 31.141, 46.985.

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, 31.141, 46.985

Protanopia

15, 19.825, 97.024

Deuteranopia

15, 22.747, 85.569



Tritanopia
15, 26.415, 26.704

Trichromacy



Original Color
15, 31.141, 46.985

Protanomaly
15, 21.138, 72.102

Deuteranomaly
15, 24.004, 67.748

Tritanomaly
15, 28.092, 36.791

Monochromacy



Original Color
15, 31.141, 46.985

Achromatopsia
13, 0.003, 296.813

Achromatomaly
13, 11.290, 51.274

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 15, 31.141, 46.985 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(70, 23, 0)` looks like.

```
.text, #text, p{  
    color:rgb(70, 23, 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(70, 23, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(70, 23, 0) }
```

Border

The CSS property to change the border of an element to CIELCh 15, 31.141, 46.985 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(70, 23, 0) }
```

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

```
.border{ border-color:rgb(70, 23, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(70, 23, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(70, 23, 0); -webkit-box-shadow:4px  
4px 4px 4px rgb(70, 23, 0); box-shadow:4px  
4px 4px 4px rgb(70, 23, 0) }
```

Background

The CSS property to change the background color of an element to CIELCh 15, 31.141, 46.985 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(70, 23, 0) }
```

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

```
.background{ background-color: rgb(70, 23,  
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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