

Converting Colors

CIELCh(15, 15.228, 20.767)

Have a look what the booklet for
CIELCh(15, 15.228, 20.767) contains.

CIELCh(15, 15.249, 18.689)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	11
<i>Previews</i>	20
<i>Color Blindness Simulation</i>	23
<i>CSS Examples</i>	26

Color

CIELCh(15, 15.249, 18.689)

Conversions

Conversions Part 1

Format	Color
Hex	3A1D1F
RGB	58, 29, 31
RGB Percent	23%, 11%, 12%
CMY	0.7710, 0.8849, 0.8771
CMYK	0.00, 0.50, 0.46, 0.77
HSL	356°, 33%, 17%
HSV	356°, 50%, 23%
XYZ	2.4683, 1.9086, 1.5587
YIQ	37.8990, 16.6420, 6.7700

Conversions

Conversions Part 2

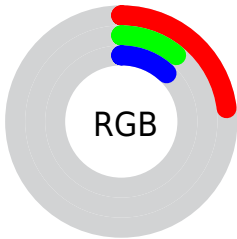
Format	Color
R_{YB}	58, 29, 31
Decimal	3808543
CIE _{Lab}	15.00, 14.44, 4.89
CIE _{LCh}	15, 15.249, 18.689
Yxy	1.9086, 0.4158, 0.3216
Android (android.graphics.Color)	4281998623 (0xFF3A1D1F)
YUV	37.8990, -3.4012, 17.6286
Hunter-Lab	13.8151, 7.7149, 2.9812

Details

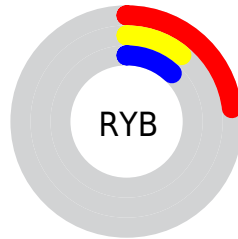
The CIELCh color **15, 15.249, 18.689** is a dark color, and the websafe version is hex **330000**. A complement of this color would be **22, 11.702, 190.739**, and the grayscale version is **15, 0.003, 296.813**.

A 20% lighter version of the original color is **35, 15.531, 17.404**, and **0, 0.000, 0.000** is the 20% darker color. If you saturate the color by 10%, you get **13, 18.681, 20.463**, and if you desaturate by 10%, it is **17, 11.891, 17.260**.

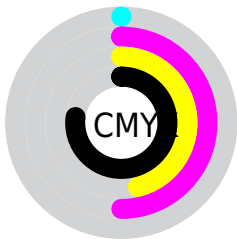
Distribution



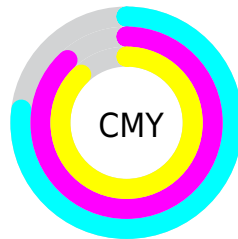
- Red (23%)
- Green (11%)
- Blue (12%)



- Red (23%)
- Yellow (11%)
- Blue (12%)



- Cyan (0%)
- Magenta (50%)
- Yellow (46%)
- Black (77%)



- Cyan (77%)
- Magenta (88%)
- Yellow (88%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 15, 15.249, 18.689 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, 15.249, 18.689 by changing the saturation by 10% instead.

 15, 15.249, 18.689

 15, 15.249, 18.689

 100, 15.249,
18.689

 5, 15.249, 18.689

 35, 15.249, 18.689

 0, 15.249, 18.689

 45, 15.249, 18.689

 55, 15.249, 18.689

 65, 15.249, 18.689

 75, 15.249, 18.689

 85, 15.249, 18.689

 95, 15.249, 18.689

■ 15, 15.249, 18.689

■ 15, 15.249, 18.689

■ 13, 18.681, 20.463

■ 17, 11.891, 17.260

■ 12, 22.091, 22.455

■ 19, 8.660, 16.092

■ 11, 25.098, 23.375

■ 21, 5.583, 15.125

■ 10, 27.682, 23.268

■ 23, 2.672, 14.291

■ 8, 30.419, 22.172

■ 25, 0.071, 196.910

■ 8, 30.498, 22.136

■ 27, 2.652, 193.238

■ 29, 5.082, 192.715

■ 31, 7.372, 192.283

■ 33, 9.535, 191.911

Harmonies

Complementary

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



15, 15.249, 18.689



22, 11.702, 190.739

Rectangle

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



15, 15.249, 18.689



15, 15.249, 68.689



15, 15.249, 198.689



15, 15.249, 248.689

Sweetspot

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



15, 15.248, 18.692



29, 5.254, 14.780



16, 22.942, 324.226



13, 3.525, 14.832



68, 0.008, 296.813



15, 0.003, 296.813

Same Dimension

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



15, 15.248, 18.692



18, 23.632, 21.104



18, 12.517, 61.445



9, 1.464, 14.172



17, 44.856, 31.714



46, 90.544, 37.727

Inverse Universe

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



15, 15.248, 18.692



18, 23.632, 21.104



18, 10.347, 252.888



9, 1.464, 14.172



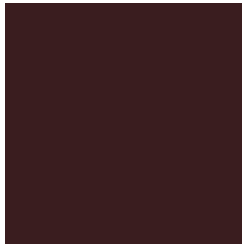
17, 44.856, 31.714



46, 90.544, 37.727

Previews

White Background



This preview shows how the CIELCh color 15, 15.249, 18.689 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, 15.249, 18.689 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

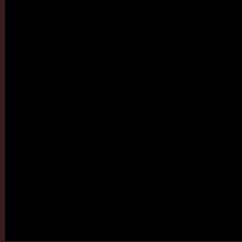
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 15, 15.249, 18.689

Background



This preview shows how black text looks on a background with the CIELCh color 15, 15.249, 18.689.

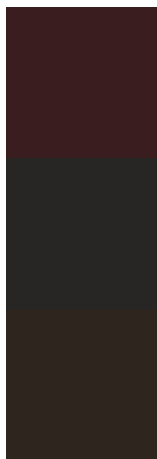


This preview shows how white text looks on a background with the CIELCh color 15, 15.249, 18.689.

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, 15.249, 18.689

Protanopia

15, 1.714, 74.391

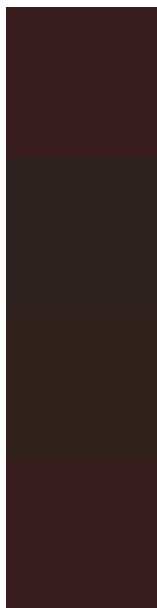
Deuteranopia

15, 6.512, 68.511



Tritanopia
15, 15.249, 18.689

Trichromacy



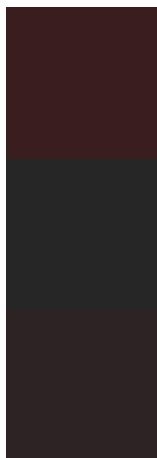
Original Color
15, 15.249, 18.689

Protanomaly
15, 6.215, 27.337

Deuteranomaly
15, 9.034, 39.272

Tritanomaly
15, 15.249, 18.689

Monochromacy



Original Color
15, 15.249, 18.689

Achromatopsia
15, 0.003, 296.813

Achromatomaly
15, 5.079, 12.755

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 15, 15.249, 18.689 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(58, 29, 31)` looks like.

```
.text, #text, p{  
    color:rgb(58, 29, 31)  
}
```

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(58, 29, 31) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(58, 29, 31) }
```

Border

The CSS property to change the border of an element to CIELCh 15, 15.249, 18.689 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(58, 29, 31) }
```

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

```
.border{ border-color:rgb(58, 29, 31) }
```

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

Here you see how a box with a 4 pixel `rgb(58, 29, 31)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(58, 29, 31); -webkit-box-  
shadow:4px 4px 4px 4px rgb(58, 29, 31);  
box-shadow:4px 4px 4px 4px rgb(58, 29, 31)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 15, 15.249, 18.689 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(58, 29, 31) }
```

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

```
.background{ background-color: rgb(58, 29,  
31) }
```

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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