

Converting Colors

CIE LCh(15, 8.316, 39.217)

Have a look what the booklet for
CIELCh(15, 8.316, 39.217) contains.

CIELCh(15, 8.232, 35.960)	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, 8.232, 35.960)

Conversions

Conversions Part 1

Format	Color
Hex	31221F
RGB	49, 34, 31
RGB Percent	19%, 13%, 12%
CMY	0.8072, 0.8661, 0.8779
CMYK	0.00, 0.31, 0.37, 0.81
HSL	10°, 22%, 16%
HSV	10°, 37%, 19%
XYZ	2.0992, 1.9086, 1.5637
YIQ	38.1430, 9.9030, 2.2470

Conversions

Conversions Part 2

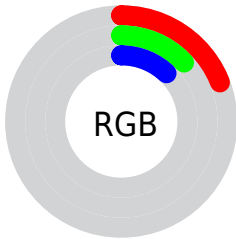
Format	Color
RYB	49, 35, 31
Decimal	3219999
CIELab	15.00, 6.66, 4.83
CIELCh	15, 8.232, 35.960
Yxy	1.9086, 0.3768, 0.3426
Android (android.graphics.Color)	4281410079 (0xFF31221F)
YUV	38.1430, -3.5215, 9.5216
Hunter-Lab	13.8151, 2.9463, 2.9596

Details

The CIELCh color **15, 8.232, 35.960** is a dark color, and the websafe version is hex **333333**. A complement of this color would be **18, 6.641, 216.561**, and the grayscale version is **15, 0.003, 296.813**.

A 20% lighter version of the original color is **35, 8.376, 33.327**, and **0, 0.000, 0.000** is the 20% darker color. If you saturate the color by 10%, you get **14, 10.845, 36.314**, and if you desaturate by 10%, it is **16, 5.780, 35.747**.

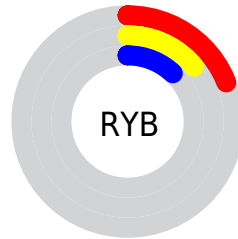
Distribution



Red (19%)

Green (13%)

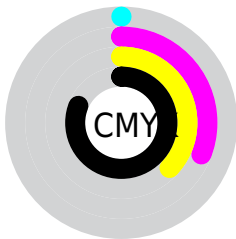
Blue (12%)



Red (19%)

Yellow (14%)

Blue (12%)

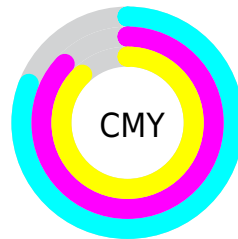


Cyan (0%)

Magenta (31%)

Yellow (37%)

Black (81%)



Cyan (81%)

Magenta (87%)

Yellow (88%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 15, 8.232, 35.960 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, 8.232, 35.960 by changing the saturation by 10% instead.

 15, 8.232, 35.960  15, 8.232, 35.960

 100, 8.232, 35.960  5, 8.232, 35.960

 35, 8.232, 35.960  0, 8.232, 35.960

 45, 8.232, 35.960

 55, 8.232, 35.960

 65, 8.232, 35.960

 75, 8.232, 35.960

 85, 8.232, 35.960

 95, 8.232, 35.960

 15, 8.232, 35.960  15, 8.232, 35.960

■ 14, 10.845, 36.314

■ 16, 5.780, 35.747

■ 12, 13.611, 36.769

■ 18, 3.488, 35.623

■ 11, 16.214, 35.965

■ 19, 1.345, 35.515

■ 10, 18.520, 34.011

■ 21, 0.658, 216.039

■ 9, 20.600, 31.849

■ 22, 2.533, 215.914

■ 8, 22.561, 30.621

■ 24, 4.293, 216.029

■ 8, 23.190, 30.363

■ 25, 5.949, 216.196

■ 27, 7.511, 216.392

■ 29, 8.989, 216.607

Harmonies

Complementary

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



15, 8.232, 35.960



18, 6.641, 216.561

Rectangle

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



15, 8.232, 35.960



15, 8.232, 85.960



15, 8.232, 215.960



15, 8.232, 265.960

Sweetspot

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



15, 8.231, 35.966



25, 2.818, 35.579



15, 13.452, 331.275



11, 1.915, 35.581



66, 0.008, 296.813



13, 0.003, 296.813

Same Dimension

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



15, 8.231, 35.966



19, 12.716, 36.302



18, 8.844, 87.210



8, 1.158, 35.381



18, 42.431, 39.720



47, 89.214, 42.346

Inverse Universe

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



18, 6.641, 216.561



23, 9.593, 217.053



15, 8.786, 275.839



9, 1.112, 215.899



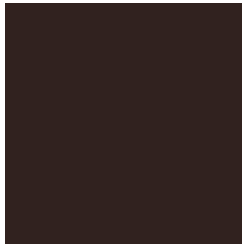
29, 20.250, 225.753



68, 38.519, 228.682

Previews

White Background



This preview shows how the CIELCh color 15, 8.232, 35.960 looks on a white background.

Color Contrast Check

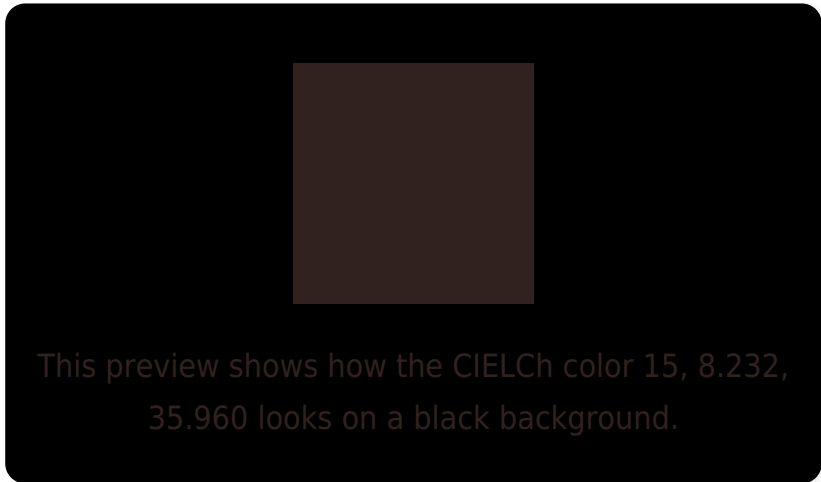
Large Text (above 18pt) WCAG AA ✓ Pass

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

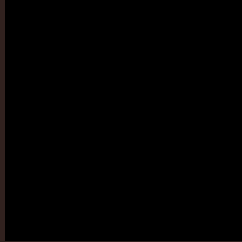
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 15, 8.232, 35.960

Background



This preview shows how black text looks on a background with the CIELCh color 15, 8.232, 35.960.

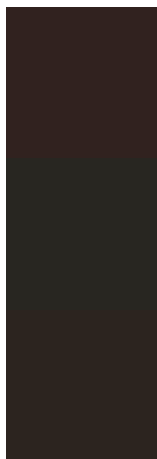


This preview shows how white text looks on a background with the CIELCh color 15, 8.232, 35.960.

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, 8.232, 35.960

Protanopia

15, 3.652, 93.049

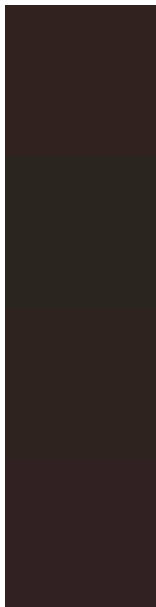
Deuteranopia

15, 5.493, 59.717



Tritanopia
15, 8.839, 8.130

Trichromacy



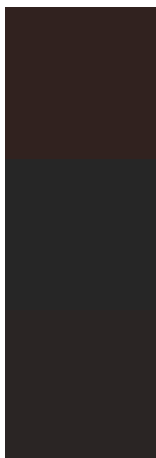
Original Color
15, 8.232, 35.960

Protanomaly
15, 4.701, 67.944

Deuteranomaly
15, 6.463, 46.253

Tritanomaly
15, 8.773, 17.188

Monochromacy



Original Color
15, 8.232, 35.960

Achromatopsia
15, 0.003, 296.813

Achromatomaly
15, 2.594, 35.589

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 15, 8.232, 35.960 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(49, 34, 31)` looks like.

```
.text, #text, p{  
    color:rgb(49, 34, 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(49, 34, 31) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(49, 34, 31) }
```

Border

The CSS property to change the border of an element to CIELCh 15, 8.232, 35.960 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(49, 34, 31) }
```

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

```
.border{ border-color:rgb(49, 34, 31) }
```

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

Here you see how a box with a 4 pixel `rgb(49, 34, 31)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(49, 34, 31); -webkit-box-  
shadow:4px 4px 4px 4px rgb(49, 34, 31);  
box-shadow:4px 4px 4px 4px rgb(49, 34, 31)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 15, 8.232, 35.960 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(49, 34, 31) }
```

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

```
.background{ background-color: rgb(49, 34,  
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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