

Converting Colors

CIELCh(15, 8.032, 21.315)

Have a look what the booklet for
CIELCh(15, 8.032, 21.315) contains.

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Color

CIELCh(15, 7.728, 21.376)

Conversions

Conversions Part 1

Format	Color
Hex	312222
RGB	49, 34, 34
RGB Percent	19%, 13%, 13%
CMY	0.8080, 0.8668, 0.8668
CMYK	0.00, 0.31, 0.31, 0.81
HSL	0°, 18%, 16%
HSV	0°, 31%, 19%
XYZ	2.1232, 1.9086, 1.7666
YIQ	38.4850, 8.9400, 3.1800

Conversions

Conversions Part 2

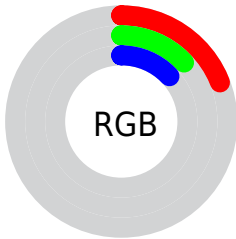
Format	Color
RYB	49, 34, 34
Decimal	3220002
CIELab	15.00, 7.20, 2.82
CIELCh	15, 7.728, 21.376
Yxy	1.9086, 0.3662, 0.3292
Android (android.graphics.Color)	4281410082 (0xFF312222)
YUV	38.4850, -2.2111, 9.2217
Hunter-Lab	13.8151, 3.2567, 2.0890

Details

The CIELCh color **15, 7.728, 21.376** is a dark color, and the websafe version is hex **333333**. A complement of this color would be **19, 6.517, 198.141**, and the grayscale version is **15, 0.003, 296.813**.

A 20% lighter version of the original color is **35, 8.045, 20.596**, and **0, 0.000, 0.000** is the 20% darker color. If you saturate the color by 10%, you get **13, 10.570, 22.384**, and if you desaturate by 10%, it is **17, 5.040, 20.569**.

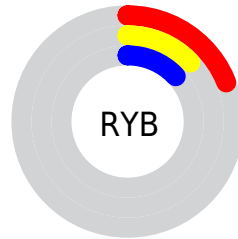
Distribution



Red (19%)

Green (13%)

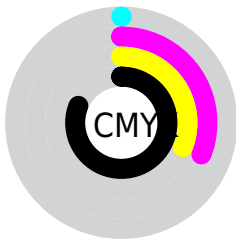
Blue (13%)



Red (19%)

Yellow (13%)

Blue (13%)

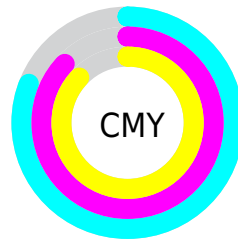


Cyan (0%)

Magenta (31%)

Yellow (31%)

Black (81%)



Cyan (81%)

Magenta (87%)

Yellow (87%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 15, 7.728, 21.376 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, 7.728, 21.376 by changing the saturation by 10% instead.

■ 15, 7.728, 21.376 ■ 15, 7.728, 21.376

■ 100, 7.728, 21.376 ■ 5, 7.728, 21.376

■ 35, 7.728, 21.376 ■ 0, 7.728, 21.376

■ 45, 7.728, 21.376

■ 55, 7.728, 21.376

■ 65, 7.728, 21.376

■ 75, 7.728, 21.376

■ 85, 7.728, 21.376

■ 95, 7.728, 21.376

■ 15, 7.728, 21.376 ■ 15, 7.728, 21.376

■ 13, 10.570, 22.384

■ 17, 5.040, 20.569

■ 12, 13.552, 23.634

■ 18, 2.514, 19.885

■ 10, 16.551, 24.529

■ 20, 0.145, 18.018

■ 9, 19.278, 24.014

■ 22, 2.074, 199.119

■ 8, 21.664, 22.903

■ 24, 4.155, 198.718

■ 7, 23.869, 21.848

■ 26, 6.110, 198.411

■ 6, 25.859, 21.091

■ 27, 7.951, 198.160

■ 29, 9.689, 197.950

■ 31, 11.336,
197.774

Harmonies

Complementary

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



15, 7.728, 21.376



19, 6.517, 198.141

Rectangle

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



15, 7.728, 21.376



15, 7.728, 71.376



15, 7.728, 201.376



15, 7.728, 251.376

Sweetspot

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



15, 7.727, 21.382



25, 2.647, 19.809



16, 12.572, 325.818



11, 1.862, 19.839



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, 7.727, 21.382



19, 11.958, 22.207



17, 6.496, 72.268



8, 1.340, 19.527



16, 44.930, 34.016



45, 92.500, 40.001

Inverse Universe

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



19, 6.517, 198.141



25, 9.568, 197.830



16, 6.064, 259.245



9, 1.285, 199.143



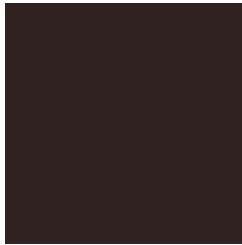
34, 23.297, 196.394



79, 44.325, 196.394

Previews

White Background



This preview shows how the CIELCh color 15, 7.728, 21.376 looks on a white background.

Color Contrast Check

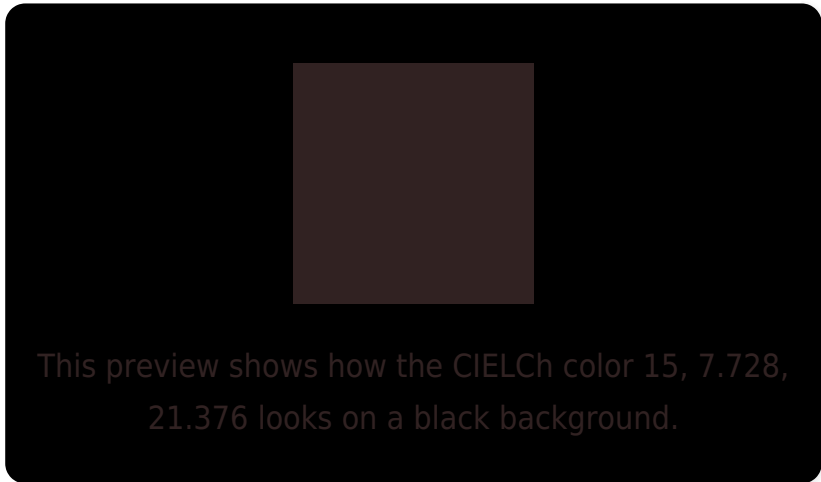
Large Text (above 18pt) WCAG AA ✓ Pass

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

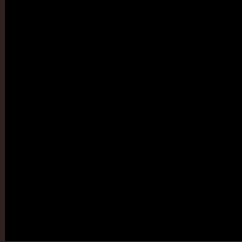
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 15, 7.728, 21.376

Background



This preview shows how black text looks on a background with the CIELCh color 15, 7.728, 21.376.

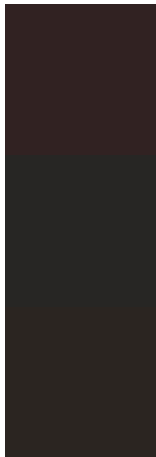


This preview shows how white text looks on a background with the CIELCh color 15, 7.728, 21.376.

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

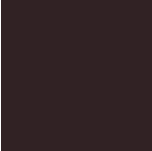
15, 7.728, 21.376

Protanopia

15, 1.485, 90.330

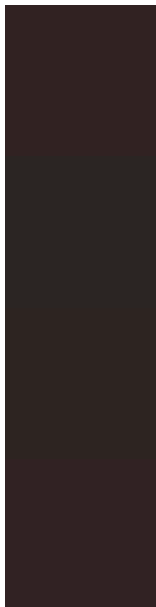
Deuteranopia

15, 4.179, 61.971



Tritanopia
15, 7.716, 11.037

Trichromacy



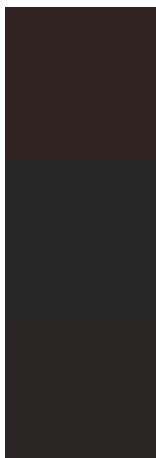
Original Color
15, 7.728, 21.376

Protanomaly
15, 3.344, 44.758

Deuteranomaly
15, 5.118, 44.564

Tritanomaly
15, 7.689, 16.211

Monochromacy



Original Color
15, 7.728, 21.376

Achromatopsia
15, 0.003, 296.813

Achromatomaly
15, 2.479, 19.936

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 15, 7.728, 21.376 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, 34)` looks like.

```
.text, #text, p{  
    color:rgb(49, 34, 34)  
}
```

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, 34) colored shadow looks like.

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

Border

The CSS property to change the border of an element to CIELCh 15, 7.728, 21.376 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, 34) }
```

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

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

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, 34)` colored shadow looks like.

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

Background

The CSS property to change the background color of an element to CIELCh 15, 7.728, 21.376 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, 34) }
```

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

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

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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