

Converting Colors

CIELCh(15, 4.384, 17.270)

Have a look what the booklet for
CIELCh(15, 4.384, 17.270) contains.

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Color

CIELCh(15, 4.020, 20.357)

Conversions

Conversions Part 1

Format	Color
Hex	2C2424
RGB	44, 36, 36
RGB Percent	17%, 14%, 14%
CMY	0.8282, 0.8595, 0.8595
CMYK	0.00, 0.18, 0.18, 0.83
HSL	0°, 10%, 16%
HSV	0°, 18%, 17%
XYZ	1.9719, 1.9086, 1.9192
YIQ	38.3920, 4.7680, 1.6960

Conversions

Conversions Part 2

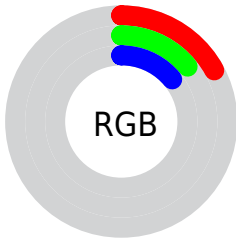
Format	Color
R_{YB}	44, 36, 36
Decimal	2892836
CIE Lab	15.00, 3.77, 1.40
CIE LCh	15, 4.020, 20.357
Yxy	1.9086, 0.3400, 0.3291
Android (android.graphics.Color)	4281082916 (0xFF2C2424)
YUV	38.3920, -1.1793, 4.9182
Hunter-Lab	13.8151, 1.3019, 1.4339

Details

The CIELCh color **15, 4.020, 20.357** is a dark color, and the websafe version is hex **333333**. A complement of this color would be **17, 3.656, 198.678**, and the grayscale version is **15, 0.003, 296.813**.

A 20% lighter version of the original color is **35, 4.394, 19.994**, and **0, 0.000, 0.000** is the 20% darker color. If you saturate the color by 10%, you get **13, 6.422, 21.113**, and if you desaturate by 10%, it is **17, 1.759, 19.713**.

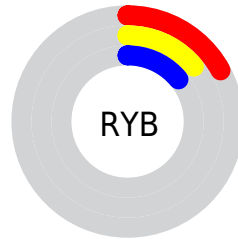
Distribution



Red (17%)

Green (14%)

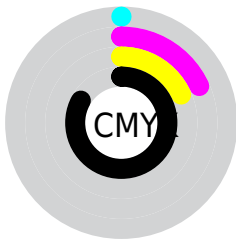
Blue (14%)



Red (17%)

Yellow (14%)

Blue (14%)

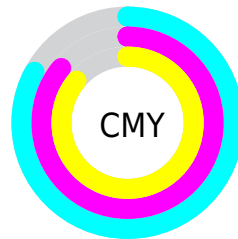


Cyan (0%)

Magenta (18%)

Yellow (18%)

Black (83%)



Cyan (83%)

Magenta (86%)

Yellow (86%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 15, 4.020, 20.357 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, 4.020, 20.357 by changing the saturation by 10% instead.

■ 15, 4.020, 20.357 ■ 15, 4.020, 20.357

■ 100, 4.020, 20.357 ■ 5, 4.020, 20.357

■ 35, 4.020, 20.357 ■ 0, 4.020, 20.357

■ 45, 4.020, 20.357

■ 55, 4.020, 20.357

■ 65, 4.020, 20.357

■ 75, 4.020, 20.357

■ 85, 4.020, 20.357

■ 95, 4.020, 20.357

■ 15, 4.020, 20.357 ■ 15, 4.020, 20.357

■ 13, 6.422, 21.113

■ 17, 1.759, 19.713

■ 12, 8.966, 22.025

■ 18, 0.363, 199.874

■ 10, 11.638, 23.144

■ 20, 2.354, 199.025

■ 9, 14.266, 23.170

■ 21, 4.225, 198.659

■ 8, 16.700, 22.024

■ 23, 5.986, 198.370

■ 7, 18.704, 21.015

■ 25, 7.648, 198.132

■ 6, 20.434, 20.367

■ 26, 9.220, 197.933

■ 5, 22.068, 19.911

■ 28, 10.712,
197.763

■ 5, 22.344, 19.848

■ 30, 12.132,
197.619

Harmonies

Complementary

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



15, 4.020, 20.357



17, 3.656, 198.678

Rectangle

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



15, 4.020, 20.357



15, 4.020, 70.357



15, 4.020, 200.357



15, 4.020, 250.357

Sweetspot

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



15, 4.019, 20.367



23, 1.302, 19.496



15, 6.807, 325.235



10, 0.866, 19.496



64, 0.008, 296.813



10, 0.003, 296.813

Same Dimension

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



15, 4.019, 20.367



19, 6.067, 20.722



16, 3.434, 73.582



7, 1.112, 19.309



16, 43.795, 33.540



45, 91.681, 40.001

Inverse Universe

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



17, 3.656, 198.678



22, 5.367, 198.466



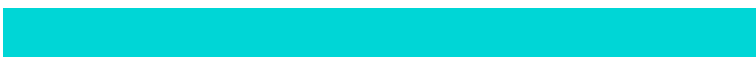
16, 3.309, 257.463



7, 1.112, 199.531



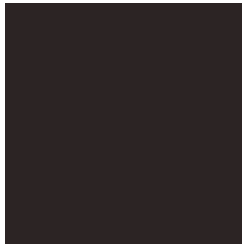
33, 22.835, 196.398



78, 43.931, 196.399

Previews

White Background



This preview shows how the CIELCh color 15, 4.020, 20.357 looks on a white background.

Color Contrast Check

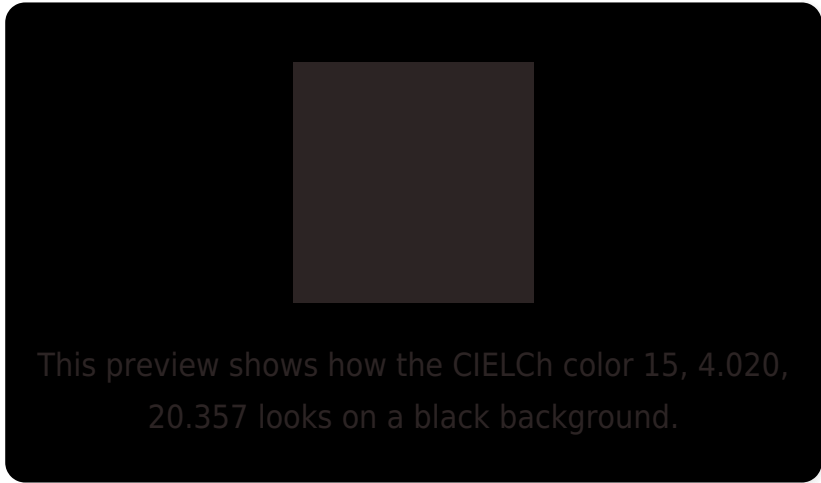
Large Text (above 18pt) WCAG AA ✓ Pass

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

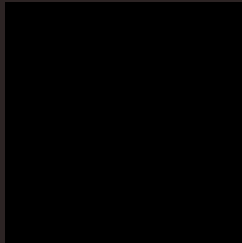
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 15, 4.020, 20.357

Background



This preview shows how black text looks on a background with the CIELCh color 15, 4.020, 20.357.

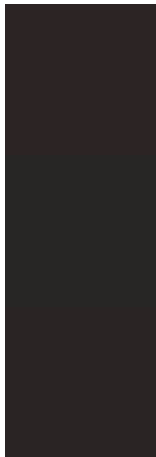


This preview shows how white text looks on a background with the CIELCh color 15, 4.020, 20.357.

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, 4.020, 20.357

Protanopia

15, 0.852, 74.793

Deuteranopia

15, 2.997, 20.088



Tritanopia
15, 4.925, 355.291

Trichromacy



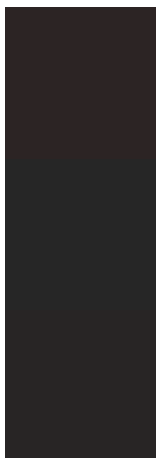
Original Color
15, 4.020, 20.357

Protanomaly
15, 1.977, 19.796

Deuteranomaly
15, 3.507, 20.223

Tritanomaly
15, 4.697, 3.188

Monochromacy



Original Color
15, 4.020, 20.357

Achromatopsia
15, 0.003, 296.813

Achromatomaly
15, 1.477, 19.644

CSS Examples

Text

The CSS property to change the color of the text to CIElCh 15, 4.020, 20.357 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(44, 36, 36)` looks like.

```
.text, #text, p{  
    color:rgb(44, 36, 36)  
}
```

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(44, 36, 36) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(44, 36, 36) }
```

Border

The CSS property to change the border of an element to CIELCh 15, 4.020, 20.357 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(44, 36, 36) }
```

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

```
.border{ border-color:rgb(44, 36, 36) }
```

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

Here you see how a box with a 4 pixel `rgb(44, 36, 36)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(44, 36, 36); -webkit-box-  
shadow:4px 4px 4px 4px rgb(44, 36, 36);  
box-shadow:4px 4px 4px 4px rgb(44, 36, 36)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 15, 4.020, 20.357 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(44, 36, 36) }
```

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

```
.background{ background-color: rgb(44, 36,  
36) }
```

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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