

Converting Colors

CIELCh(15, 10.448, 20.980)

Have a look what the booklet for
CIELCh(15, 10.448, 20.980) contains.

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Color

CIELCh(15, 10.399, 18.403)

Conversions

Conversions Part 1

Format	Color
Hex	342021
RGB	52, 32, 33
RGB Percent	20%, 13%, 13%
CMY	0.7944, 0.8729, 0.8690
CMYK	0.00, 0.38, 0.36, 0.79
HSL	357°, 24%, 17%
HSV	357°, 38%, 21%
XYZ	2.2463, 1.9086, 1.7182
YIQ	38.0940, 11.5990, 4.5510

Conversions

Conversions Part 2

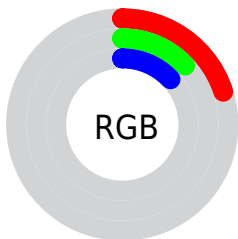
Format	Color
R _Y B	52, 32, 33
Decimal	3416097
CIE Lab	15.00, 9.87, 3.28
CIE LCh	15, 10.399, 18.403
Yxy	1.9086, 0.3825, 0.3250
Android (android.graphics.Color)	4281606177 (0xFF342021)
YUV	38.0940, -2.5113, 12.1956
Hunter-Lab	13.8151, 4.8475, 2.2965

Details

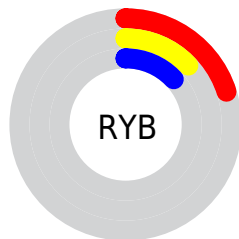
The CIELCh color **15, 10.399, 18.403** is a dark color, and the websafe version is hex **333333**. A complement of this color would be **20, 8.510, 193.205**, and the grayscale version is **15, 0.003, 296.813**.

A 20% lighter version of the original color is **35, 10.363, 17.597**, and **0, 0.000, 0.000** is the 20% darker color. If you saturate the color by 10%, you get **13, 13.463, 19.714**, and if you desaturate by 10%, it is **17, 7.462, 17.341**.

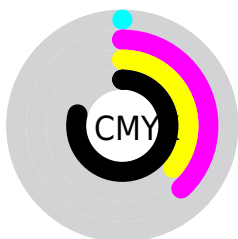
Distribution



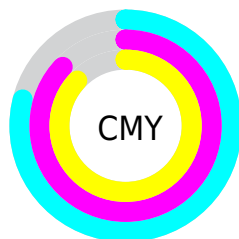
- Red (20%)
- Green (13%)
- Blue (13%)



- Red (20%)
- Yellow (13%)
- Blue (13%)



- Cyan (0%)
- Magenta (38%)
- Yellow (36%)
- Black (79%)



- Cyan (79%)
- Magenta (87%)
- Yellow (87%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 15, 10.399, 18.403 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, 10.399, 18.403 by changing the saturation by 10% instead.

 15, 10.399, 18.403

 15, 10.399, 18.403

 100, 10.399,
18.403

 5, 10.399, 18.403

 35, 10.399, 18.403

 0, 10.399, 18.403

 45, 10.399, 18.403

 55, 10.399, 18.403

 65, 10.399, 18.403

 75, 10.399, 18.403

 85, 10.399, 18.403

 95, 10.399, 18.403

■ 15, 10.399, 18.403

■ 15, 10.399, 18.403

■ 13, 13.463, 19.714

■ 17, 7.462, 17.341

■ 12, 16.621, 21.326

■ 19, 4.675, 16.457

■ 10, 19.691, 22.451

■ 20, 2.044, 15.681

■ 9, 22.395, 22.441

■ 22, 0.432, 195.680

■ 8, 24.814, 21.636

■ 24, 2.762, 194.756

■ 7, 27.304, 20.438

■ 26, 4.953, 194.288

■ 7, 27.743, 20.252

■ 28, 7.019, 193.903

■ 30, 8.971, 193.571

■ 32, 10.820,
193.282

Harmonies

Complementary

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



15, 10.399, 18.403



20, 8.510, 193.205

Rectangle

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



15, 10.399, 18.403



15, 10.399, 68.403



15, 10.399, 198.403



15, 10.399, 248.403

Sweetspot

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



15, 10.398, 18.407



27, 3.478, 15.940



16, 16.362, 324.730



12, 2.362, 15.958



67, 0.008, 296.813



14, 0.003, 296.813

Same Dimension

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



15, 10.398, 18.407



19, 16.149, 19.747



18, 8.563, 66.130



8, 1.343, 15.555



16, 44.091, 32.038



45, 90.501, 38.375

Inverse Universe

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



15, 10.398, 18.407



19, 16.149, 19.747



17, 7.608, 254.747



8, 1.343, 15.555



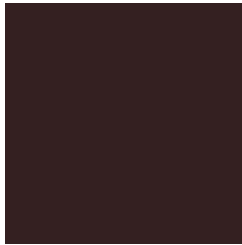
16, 44.091, 32.038



45, 90.501, 38.375

Previews

White Background



This preview shows how the CIE LCh color 15, 10.399, 18.403 looks on a white background.

Color Contrast Check

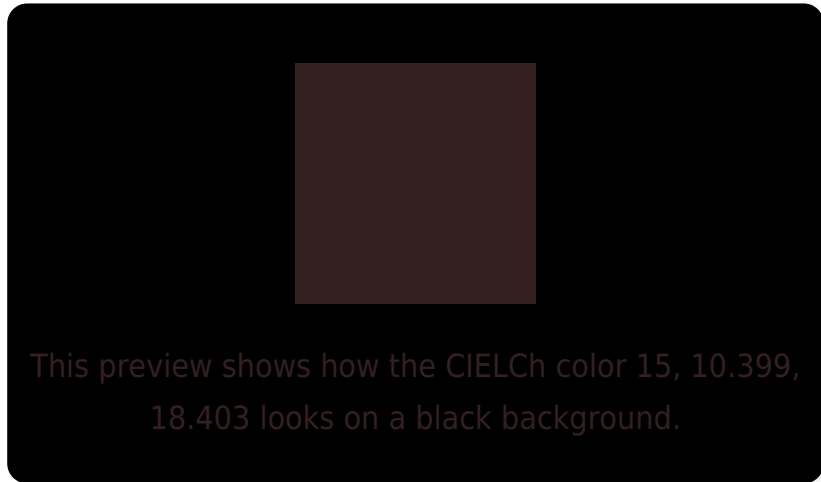
Large Text (above 18pt) WCAG AA ✓ Pass

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

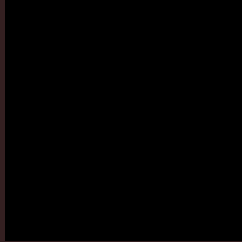
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 15, 10.399, 18.403

Background



This preview shows how black text looks on a background with the CIELCh color 15, 10.399, 18.403.

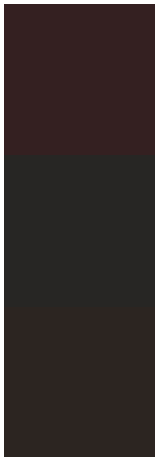


This preview shows how white text looks on a background with the CIELCh color 15, 10.399, 18.403.

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, 10.399, 18.403

Protanopia

15, 1.485, 90.330

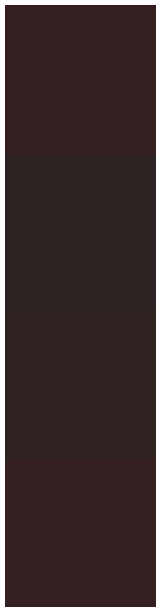
Deuteranopia

15, 4.582, 57.627



Tritanopia
15, 10.905, 11.448

Trichromacy



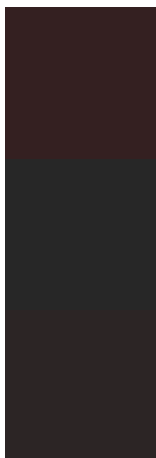
Original Color
15, 10.399, 18.403

Protanomaly
15, 4.116, 30.121

Deuteranomaly
15, 6.392, 33.464

Tritanomaly
15, 10.892, 15.098

Monochromacy



Original Color
15, 10.399, 18.403

Achromatopsia
16, 0.003, 296.813

Achromatomaly
15, 3.492, 20.205

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 15, 10.399, 18.403 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(52, 32, 33)` looks like.

```
.text, #text, p{  
    color:rgb(52, 32, 33)  
}
```

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(52, 32, 33) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(52, 32, 33) }
```

Border

The CSS property to change the border of an element to CIELCh 15, 10.399, 18.403 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(52, 32, 33) }
```

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

```
.border{ border-color:rgb(52, 32, 33) }
```

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

Here you see how a box with a 4 pixel `rgb(52, 32, 33)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(52, 32, 33); -webkit-box-  
shadow:4px 4px 4px 4px rgb(52, 32, 33);  
box-shadow:4px 4px 4px 4px rgb(52, 32, 33)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 15, 10.399, 18.403 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(52, 32, 33) }
```

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

```
.background{ background-color: rgb(52, 32,  
33) }
```

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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