

Converting Colors

CIELCh(10, 4.731, 209.910)

Have a look what the booklet for
CIELCh(10, 4.731, 209.910) contains.

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Color

CIELCh(10, 4.770, 216.451)

Conversions

Conversions Part 1

Format	Color
Hex	131D1F
RGB	19, 29, 31
RGB Percent	7%, 11%, 12%
CMY	0.9249, 0.8857, 0.8778
CMYK	0.39, 0.06, 0.00, 0.88
HSL	190°, 24%, 10%
HSV	190°, 39%, 12%
XYZ	0.9640, 1.1260, 1.4736
YIQ	26.2380, -6.6020, -1.4980

Conversions

Conversions Part 2

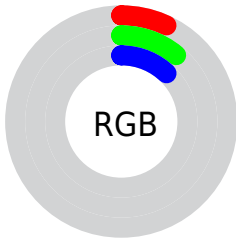
Format	Color
RYB	19, 24, 31
Decimal	1252639
CIELab	10.00, -3.84, -2.83
CIElCh	10, 4.770, 216.451
Yxy	1.1260, 0.2705, 0.3160
Android (android.graphics.Color)	4279442719 (0xFF131D1F)
YUV	26.2380, 2.3477, -6.3477
Hunter-Lab	10.6114, -2.3533, -0.8055

Details

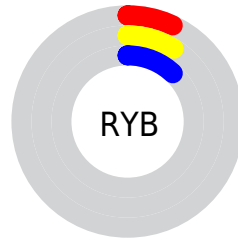
The CIELCh color **10, 4.770, 216.451** is a dark color, and the websafe version is hex **000000**. A complement of this color would be **8, 5.656, 33.600**, and the grayscale version is **9, 0.003, 296.813**.

A 20% lighter version of the original color is **30, 4.924, 221.888**, and **0, 0.000, 0.000** is the 20% darker color. If you saturate the color by 10%, you get **10, 5.834, 216.854**, and if you desaturate by 10%, it is **10, 3.623, 216.151**.

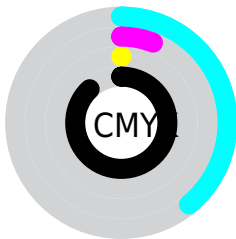
Distribution



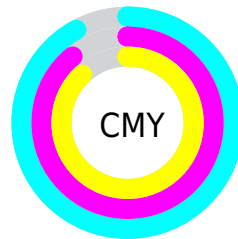
- Red (7%)
- Green (11%)
- Blue (12%)



- Red (7%)
- Yellow (9%)
- Blue (12%)



- Cyan (39%)
- Magenta (6%)
- Yellow (0%)
- Black (88%)



- Cyan (92%)
- Magenta (89%)
- Yellow (88%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 10, 4.770, 216.451 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 10, 4.770, 216.451 by changing the saturation by 10% instead.

■ 10, 4.770, 216.451

■ 10, 4.770, 216.451

■ 100, 4.770,
216.451

■ 0, 4.770, 216.451

■ 30, 4.770, 216.451

■ 40, 4.770, 216.451

■ 50, 4.770, 216.451

■ 60, 4.770, 216.451

■ 70, 4.770, 216.451

■ 80, 4.770, 216.451

■ 90, 4.770, 216.451

■ 10, 4.770, 216.451

■ 10, 4.770, 216.451

■ 10, 5.834, 216.854

■ 10, 3.623, 216.151

■ 9, 6.804, 217.398

■ 11, 2.406, 215.957

■ 9, 7.617, 218.401

■ 11, 1.129, 215.892

■ 8, 8.341, 219.662

■ 12, 0.198, 34.874

■ 8, 9.044, 220.980

■ 12, 1.566, 35.548

■ 8, 9.739, 222.213

■ 13, 2.966, 35.613

■ 8, 9.842, 222.375

■ 14, 4.393, 35.683

■ 14, 5.839, 35.772

■ 15, 7.300, 35.880

Harmonies

Complementary

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



10, 4.770, 216.451



8, 5.656, 33.600

Rectangle

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



10, 4.770, 216.451



10, 4.770, 266.451



10, 4.770, 36.451



10, 4.770, 86.451

Sweetspot

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



10, 4.770, 216.446



16, 1.986, 215.898



10, 9.663, 146.927



6, 1.061, 216.730



61, 0.008, 296.813



6, 0.002, 296.812

Same Dimension

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



10, 4.770, 216.446



14, 6.943, 216.907



8, 6.123, 274.084



4, 0.465, 216.426



25, 18.640, 225.157



65, 37.149, 228.552

Inverse Universe

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



8, 9.577, 331.129



10, 14.365, 331.673



10, 6.020, 85.989



4, 0.852, 329.520



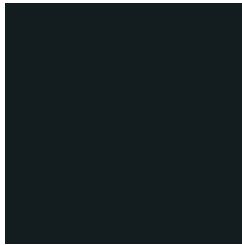
16, 43.890, 335.390



47, 86.489, 336.266

Previews

White Background



This preview shows how the CIELCh color 10, 4.770, 216.451 looks on a white background.

Color Contrast Check

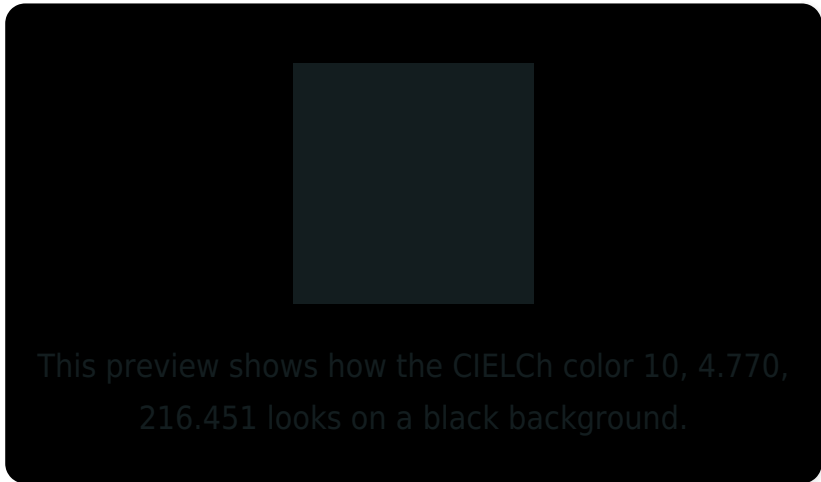
Large Text (above 18pt) WCAG AA ✓ Pass

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

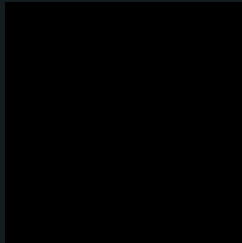
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

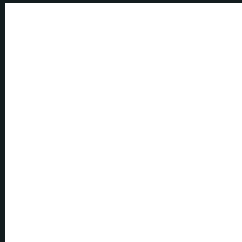
If you want to check with other color combinations, try the [Color Contrast Checker](#).

CIELCh 10, 4.770, 216.451

Background



This preview shows how black text looks on a background with the CIELCh color 10, 4.770, 216.451.



This preview shows how white text looks on a background with the CIELCh color 10, 4.770, 216.451.

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

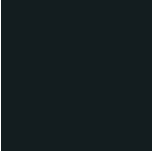
10, 4.770, 216.451

Protanopia

10, 2.220, 290.920

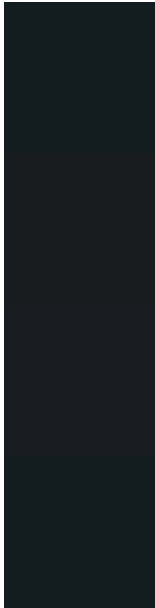
Deuteranopia

10, 3.736, 298.831



Tritanopia
10, 4.770, 216.451

Trichromacy



Original Color

10, 4.770, 216.451

Protanomaly

10, 2.402, 237.122

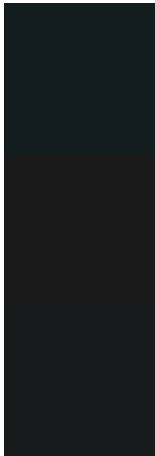
Deuteranomaly

10, 3.243, 265.056

Tritanomaly

10, 4.770, 216.451

Monochromacy



Original Color

10, 4.770, 216.451

Achromatopsia

9, 0.003, 296.813

Achromatomaly

9, 1.642, 226.041

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 10, 4.770, 216.451 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(19, 29, 31)` looks like.

```
.text, #text, p{  
    color:rgb(19, 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(19, 29, 31) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(19, 29, 31) }
```

Border

The CSS property to change the border of an element to CIELCh 10, 4.770, 216.451 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(19, 29, 31) }
```

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

```
.border{ border-color:rgb(19, 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(19, 29, 31)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(19, 29, 31); -webkit-box-  
shadow:4px 4px 4px 4px rgb(19, 29, 31);  
box-shadow:4px 4px 4px 4px rgb(19, 29, 31)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 10, 4.770, 216.451 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(19, 29, 31) }
```

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

```
.background{ background-color: rgb(19, 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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