

Converting Colors

CIELCh(10, 13.685, 32.272)

Have a look what the booklet for
CIELCh(10, 13.685, 32.272) contains.

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Color

CIELCh(10, 13.823, 31.254)

Conversions

Conversions Part 1

Format	Color
Hex	2D1512
RGB	45, 21, 18
RGB Percent	18%, 8%, 7%
CMY	0.8243, 0.9184, 0.9303
CMYK	0.00, 0.54, 0.60, 0.82
HSL	7°, 43%, 12%
HSV	7°, 60%, 18%
XYZ	1.4458, 1.1260, 0.7040
YIQ	27.8340, 15.2670, 4.1550

Conversions

Conversions Part 2

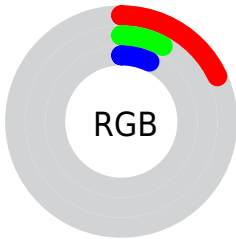
Format	Color
R_{YB}	45, 21, 18
Decimal	2954514
CIE Lab	10.00, 11.82, 7.17
CIE LCh	10, 13.823, 31.254
Yxy	1.1260, 0.4413, 0.3437
Android (android.graphics.Color)	4281144594 (0xFF2D1512)
YUV	27.8340, -4.8482, 15.0546
Hunter-Lab	10.6114, 5.7498, 3.4945

Details

The CIELCh color **10, 13.823, 31.254** is a dark color, and the websafe version is hex **330000**. A complement of this color would be **15, 9.614, 210.487**, and the grayscale version is **10, 0.003, 296.813**.

A 20% lighter version of the original color is **30, 13.692, 32.189**, and **0, 0.000, 0.000** is the 20% darker color. If you saturate the color by 10%, you get **9, 16.086, 29.503**, and if you desaturate by 10%, it is **11, 11.346, 31.772**.

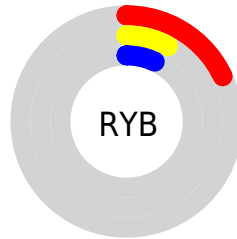
Distribution



 Red (18%)

 Green (8%)

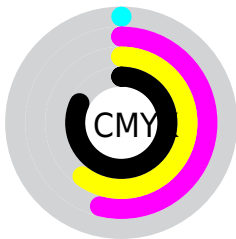
 Blue (7%)



 Red (18%)

 Yellow (8%)

 Blue (7%)

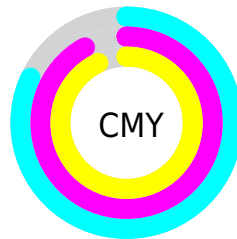


 Cyan (0%)


 Magenta (54%)

 Yellow (60%)

 Black (82%)



 Cyan (82%)

 Magenta (92%)

 Yellow (93%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 10, 13.823, 31.254 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, 13.823, 31.254 by changing the saturation by 10% instead.

■ 10, 13.823, 31.254

■ 10, 13.823, 31.254

■ 100, 13.823,
31.254

■ 0, 13.823, 31.254

■ 30, 13.823, 31.254

■ 40, 13.823, 31.254

■ 50, 13.823, 31.254

■ 60, 13.823, 31.254

■ 70, 13.823, 31.254

■ 80, 13.823, 31.254

■ 90, 13.823, 31.254

■ 10, 13.823, 31.254

■ 10, 13.823, 31.254

■ 9, 16.086, 29.503

■ 11, 11.346, 31.772

■ 8, 18.140, 27.279

■ 13, 8.800, 31.122

■ 7, 19.884, 26.279

■ 14, 6.399, 30.622

■ 6, 21.430, 25.849

■ 15, 4.146, 30.247

■ 17, 2.036, 29.948

■ 18, 0.060, 26.597

■ 20, 1.790, 209.895

■ 21, 3.525, 209.798

■ 23, 5.156, 209.779

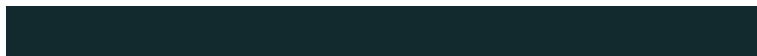
Harmonies

Complementary

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



10, 13.823, 31.254



15, 9.614, 210.487

Rectangle

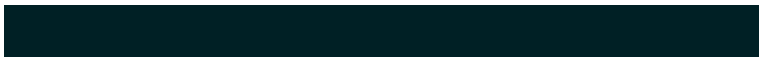
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



10, 13.823, 31.254



10, 13.823, 81.254



10, 13.823, 211.254



10, 13.823, 261.254

Sweetspot

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



10, 13.822, 31.258



21, 4.590, 30.208



10, 20.944, 330.116



9, 3.235, 30.231



65, 0.008, 296.813



12, 0.003, 296.813

Same Dimension

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



10, 13.822, 31.258



13, 21.705, 33.474



14, 12.957, 78.729



7, 1.005, 29.298



17, 42.076, 37.367



46, 89.894, 41.240

Inverse Universe

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



15, 9.614, 210.487



20, 13.297, 211.359



10, 12.401, 274.600



7, 0.998, 210.465



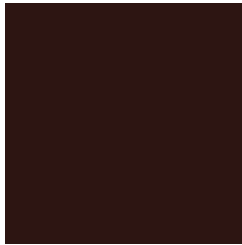
29, 20.277, 215.029



71, 38.769, 216.953

Previews

White Background



This preview shows how the CIE LCh color 10, 13.823, 31.254 looks on a white background.

Color Contrast Check

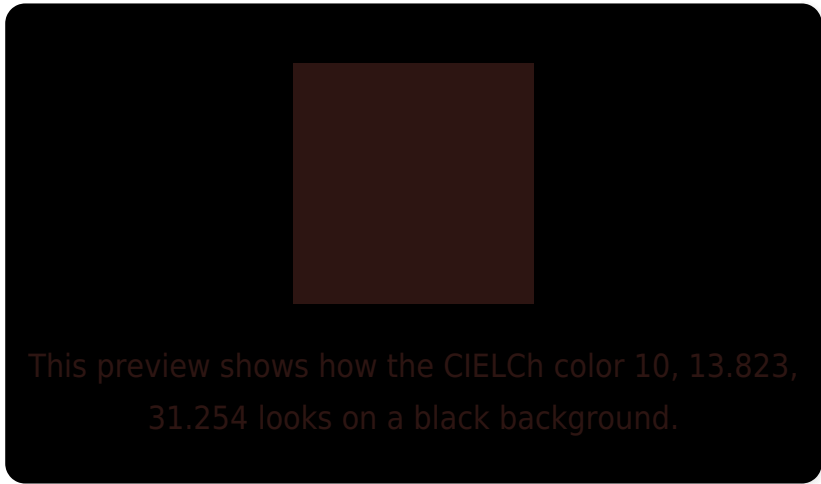
Large Text (above 18pt) WCAG AA ✓ Pass

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

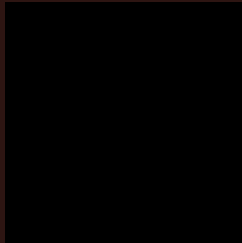
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 10, 13.823, 31.254

Background



This preview shows how black text looks on a background with the CIELCh color 10, 13.823, 31.254.



This preview shows how white text looks on a background with the CIELCh color 10, 13.823, 31.254.

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, 13.823, 31.254

Protanopia

10, 5.197, 96.516

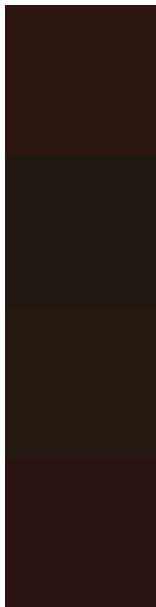
Deuteranopia

10, 7.967, 78.776



Tritanopia
10, 13.723, 18.194

Trichromacy



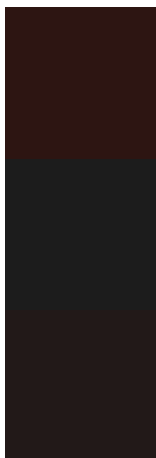
Original Color
10, 13.823, 31.254

Protanomaly
10, 6.671, 52.651

Deuteranomaly
10, 9.291, 56.145

Tritanomaly
10, 13.928, 23.630

Monochromacy



Original Color
10, 13.823, 31.254

Achromatopsia
10, 0.003, 296.813

Achromatomaly
10, 4.907, 29.357

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 10, 13.823, 31.254 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(45, 21, 18)` looks like.

```
.text, #text, p{  
    color:rgb(45, 21, 18)  
}
```

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(45, 21, 18) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(45, 21, 18) }
```

Border

The CSS property to change the border of an element to CIELCh 10, 13.823, 31.254 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(45, 21, 18) }
```

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

```
.border{ border-color:rgb(45, 21, 18) }
```

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

Here you see how a box with a 4 pixel `rgb(45, 21, 18)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(45, 21, 18); -webkit-box-  
shadow:4px 4px 4px 4px rgb(45, 21, 18);  
box-shadow:4px 4px 4px 4px rgb(45, 21, 18)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 10, 13.823, 31.254 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(45, 21, 18) }
```

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

```
.background{ background-color: rgb(45, 21,  
18) }
```

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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