

Converting Colors

CIELCh(1, 55.827, 355.395)

Have a look what the booklet for
CIELCh(1, 55.827, 355.395) contains.

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Color

CIELCh(10, 31.404, 15.511)

Conversions

Conversions Part 1

Format	Color
Hex	400011
RGB	64, 0, 17
RGB Percent	25%, 0%, 7%
CMY	0.7506, 0.9982, 0.9347
CMYK	0.00, 0.99, 0.74, 0.75
HSL	345°, 99%, 13%
HSV	345°, 99%, 25%
XYZ	2.1924, 1.1260, 0.6183
YIQ	21.0740, 32.6870, 18.8550

Conversions

Conversions Part 2

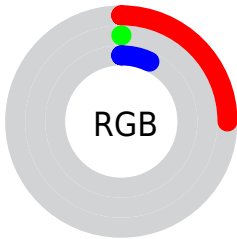
Format	Color
RYB	64, 0, 17
Decimal	4194321
CIELab	10.00, 30.26, 8.40
CIELCh	10, 31.404, 15.511
Yxy	1.1260, 0.5569, 0.2860
Android (android.graphics.Color)	4282384401 (0xFF400011)
YUV	21.0740, -2.0085, 37.6461
Hunter-Lab	10.6114, 18.3087, 3.9735

Details

The CIELCh color **10, 31.404, 15.511** is a dark color, and the websafe version is hex **330000**. A complement of this color would be **23, 23.670, 168.350**, and the grayscale version is **7, 0.002, 296.812**.

A 20% lighter version of the original color is **30, 31.606, 15.262**, and **0, 0.000, 0.000** is the 20% darker color. If you saturate the color by 10%, you get **10, 31.613, 15.543**, and if you desaturate by 10%, it is **11, 28.556, 14.154**.

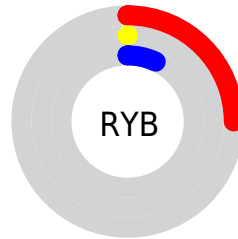
Distribution



Red (25%)

Green (0%)

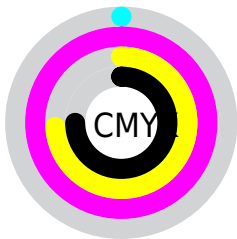
Blue (7%)



Red (25%)

Yellow (0%)

Blue (7%)

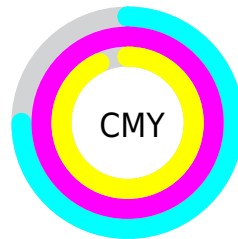


Cyan (0%)

Magenta (99%)

Yellow (74%)

Black (75%)



Cyan (75%)

Magenta (100%)

Yellow (93%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 10, 31.404, 15.511 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, 31.404, 15.511 by changing the saturation by 10% instead.

 10, 31.404, 15.511

 10, 31.404, 15.511

 100, 31.404,
15.511

 0, 31.404, 15.511

 30, 31.404, 15.511

 40, 31.404, 15.511

 50, 31.404, 15.511

 60, 31.404, 15.511

 70, 31.404, 15.511

 80, 31.404, 15.511

 90, 31.404, 15.511

■ 10, 31.404, 15.511

■ 10, 31.404, 15.511

■ 10, 31.613, 15.543

■ 11, 28.556, 14.154

■ 12, 25.878, 11.171

■ 14, 22.923, 8.492

■ 15, 19.698, 6.313

■ 17, 16.316, 4.525

■ 19, 12.879, 3.038

■ 21, 9.463, 1.781

■ 23, 6.124, 0.697

■ 25, 2.892, 359.726

Harmonies

Complementary

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



10, 31.404, 15.511



23, 23.670, 168.350

Rectangle

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



10, 31.404, 15.511



10, 31.404, 65.511



10, 31.404, 195.511



10, 31.404, 245.511

Sweetspot

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



10, 31.403, 15.513



27, 11.963, 2.011



9, 43.521, 319.473



11, 8.040, 2.187



69, 0.009, 296.813



16, 0.003, 296.813

Same Dimension

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



10, 31.403, 15.513



15, 38.012, 19.448



12, 29.251, 39.204



10, 1.670, 359.638



18, 42.294, 20.774



47, 81.184, 25.658

Inverse Universe

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



10, 31.403, 15.513



15, 38.012, 19.448



18, 16.234, 236.664



10, 1.670, 359.638



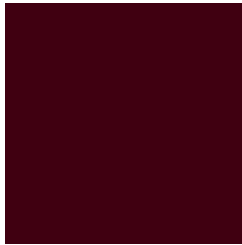
18, 42.294, 20.774



47, 81.184, 25.658

Previews

White Background



This preview shows how the CIELCh color 10, 31.404, 15.511 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

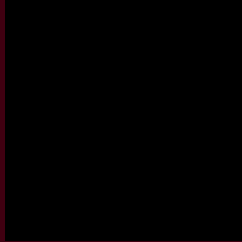
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 10, 31.404, 15.511

Background



This preview shows how black text looks on a background with the CIELCh color 10, 31.404, 15.511.



This preview shows how white text looks on a background with the CIELCh color 10, 31.404, 15.511.

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, 31.709, 15.107

Protanopia

12, 5.143, 96.685

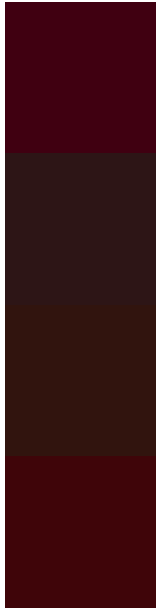
Deuteranopia

12, 12.984, 83.602



Tritanopia
11, 30.181, 29.047

Trichromacy



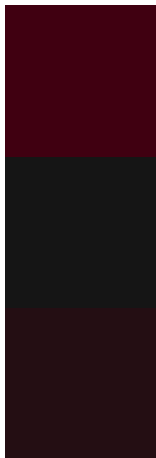
Original Color
10, 31.709, 15.107

Protanomaly
10, 13.207, 20.728

Deuteranomaly
10, 17.242, 35.448

Tritanomaly
10, 30.267, 24.739

Monochromacy



Original Color
10, 31.709, 15.107

Achromatopsia
7, 0.002, 296.812

Achromatomaly
7, 12.090, 6.534

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 10, 31.404, 15.511 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(64, 0, 17)` looks like.

```
.text, #text, p{  
    color:rgb(64, 0, 17)  
}
```

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(64, 0, 17) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(64, 0, 17) }
```

Border

The CSS property to change the border of an element to CIELCh 10, 31.404, 15.511 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(64, 0, 17) }
```

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

```
.border{ border-color:rgb(64, 0, 17) }
```

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

Here you see how a box with a 4 pixel `rgb(64, 0, 17)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(64, 0, 17); -webkit-box-shadow:4px  
4px 4px 4px rgb(64, 0, 17); box-shadow:4px  
4px 4px 4px rgb(64, 0, 17) }
```

Background

The CSS property to change the background color of an element to CIELCh 10, 31.404, 15.511 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(64, 0, 17) }
```

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

```
.background{ background-color: rgb(64, 0,  
17) }
```

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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