

Converting Colors

CIELCh(78, 77.276, 90.330)

Have a look what the booklet for
CIELCh(78, 77.276, 90.330) contains.

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Color

CIELCh(78, 77.431, 90.382)

Conversions

Conversions Part 1

Format	Color
Hex	E4BE13
RGB	228, 190, 19
RGB Percent	89%, 75%, 7%
CMY	0.1070, 0.2559, 0.9236
CMYK	0.00, 0.17, 0.91, 0.11
HSL	49°, 84%, 48%
HSV	49°, 91%, 89%
XYZ	50.3833, 53.2120, 8.2526
YIQ	181.8680, 77.5390, -45.1250

Conversions

Conversions Part 2

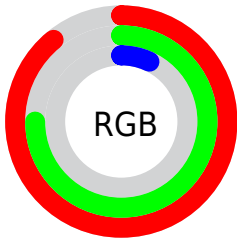
Format	Color
RYB	65, 228, 19
Decimal	14990867
CIELab	78.00, -0.52, 77.43
CIELCh	78, 77.431, 90.382
Yxy	53.2120, 0.4505, 0.4758
Android (android.graphics.Color)	4293180947 (0xFFE4BE13)
YUV	181.8680, -80.2939, 40.4578
Hunter-Lab	72.9466, -4.3686, 44.3550

Details

The CIELCh color **78, 77.431, 90.382** is a dark color, and the websafe version is hex **FFCC33**. The color can be described as middle washed orange. A complement of this color would be **35, 102.067, 301.253**, and the grayscale version is **74, 0.009, 296.813**.

A 20% lighter version of the original color is **95, 74.983, 101.436**, and **58, 63.008, 89.315** is the 20% darker color. If you saturate the color by 10%, you get **77, 79.003, 89.185**, and if you desaturate by 10%, it is **79, 73.394, 91.695**.

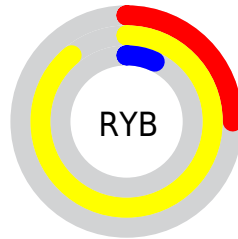
Distribution



Red (89%)

Green (75%)

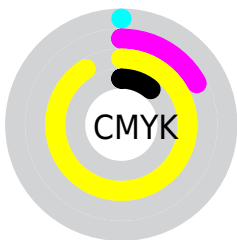
Blue (7%)



Red (25%)

Yellow (89%)

Blue (7%)

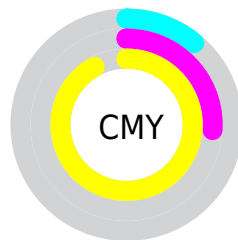


Cyan (0%)

Magenta (17%)

Yellow (91%)

Black (11%)



Cyan (11%)

Magenta (26%)

Yellow (92%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 78, 77.431, 90.382 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 78, 77.431, 90.382 by changing the saturation by 10% instead.

 78, 77.431, 90.382

 78, 77.431, 90.382

 100, 77.431,
90.382

 68, 77.431, 90.382

 98, 77.431, 90.382

 58, 77.431, 90.382

 48, 77.431, 90.382

 38, 77.431, 90.382

 28, 77.431, 90.382

 18, 77.431, 90.382

 8, 77.431, 90.382

 0, 77.431, 90.382

 78, 77.431, 90.382

 78, 77.431, 90.382

77, 79.003, 89.185

79, 73.394, 91.695

80, 67.024, 92.943

82, 59.042, 94.170

83, 50.088, 95.390

84, 40.604, 96.605

86, 30.863, 97.809

87, 21.028, 98.994

89, 11.189,
100.146

90, 1.399, 101.171

Harmonies

Complementary

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



78, 77.431, 90.382



35, 102.067, 301.253

Rectangle

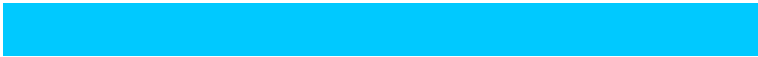
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



78, 77.431, 90.382



78, 77.431, 140.382



78, 77.431, 270.382



78, 77.431, 320.382

Sweetspot

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



78, 77.430, 90.384



95, 29.044, 98.319



49, 81.756, 27.020



50, 19.573, 97.910



0, 0.000, 0.000



53, 0.007, 296.813

Same Dimension

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



78, 77.430, 90.384



85, 86.013, 89.087



83, 91.911, 119.994



47, 5.583, 100.370



62, 65.944, 89.433



17, 24.812, 92.003

Inverse Universe

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



35, 102.067, 301.253



36, 121.110, 303.459



34, 114.476, 308.629



45, 5.654, 282.583



25, 91.038, 302.933



4, 29.456, 292.869

Previews

White Background



This preview shows how the CIELCh color 78, 77.431, 90.382 looks on a white 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

Black Background



This preview shows how the CIELCh color 78, 77.431, 90.382 looks on a black 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

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

CIELCh 78, 77.431, 90.382

Background



This preview shows how black text looks on a background with the CIELCh color 78, 77.431, 90.382.



This preview shows how white text looks on a background with the CIELCh color 78, 77.431, 90.382.

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


78, 77.584, 90.392

Protanopia

78, 77.248, 95.124

Deuteranopia

78, 77.454, 82.472



Tritanopia
78, 24.677, 4.134

Trichromacy



Original Color
78, 77.584, 90.392

Protanomaly
78, 77.251, 93.081

Deuteranomaly
78, 77.259, 85.194

Tritanomaly
77, 36.604, 69.721

Monochromacy



Original Color
78, 77.584, 90.392

Achromatopsia
74, 0.009, 296.813

Achromatomaly
75, 33.512, 96.918

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 78, 77.431, 90.382 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(228, 190, 19)` looks like.

```
.text, #text, p{  
    color:rgb(228, 190, 19)  
}
```

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(228, 190, 19) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(228, 190, 19) }
```

Border

The CSS property to change the border of an element to CIELCh 78, 77.431, 90.382 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(228, 190, 19) }
```

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

```
.border{ border-color:rgb(228, 190, 19) }
```

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

Here you see how a box with a 4 pixel `rgb(228, 190, 19)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(228, 190, 19); -webkit-box-  
shadow:4px 4px 4px 4px rgb(228, 190, 19);  
box-shadow:4px 4px 4px 4px rgb(228, 190,  
19) }
```

Background

The CSS property to change the background color of an element to CIELCh 78, 77.431, 90.382 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(228, 190, 19) }
```

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

```
.background{ background-color: rgb(228,  
190, 19) }
```

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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