

Converting Colors

CIELCh(78, 82.729, 77.950)

Have a look what the booklet for
CIELCh(78, 82.729, 77.950) contains.

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Color

CIELCh(78, 82.638, 78.015)

Conversions

Conversions Part 1

Format	Color
Hex	FFB202
RGB	255, 178, 2
RGB Percent	100%, 70%, 1%
CMY	0.0000, 0.3013, 0.9940
CMYK	0.00, 0.30, 0.99, 0.00
HSL	42°, 100%, 50%
HSV	42°, 99%, 100%
XYZ	57.2786, 53.2120, 7.2955
YIQ	180.9590, 102.3880, -38.4120

Conversions

Conversions Part 2

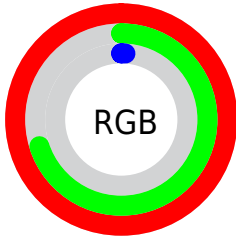
Format	Color
R_{YB}	113, 255, 2
Decimal	16757250
CIE _{Lab}	78.00, 17.16, 80.84
CIE _{LCh}	78, 82.638, 78.015
Yxy	53.2120, 0.4863, 0.4518
Android (android.graphics.Color)	4294947330 (0xFFFFB202)
YUV	180.9590, -88.2268, 64.9340
Hunter-Lab	72.9466, 12.5041, 45.1329

Details

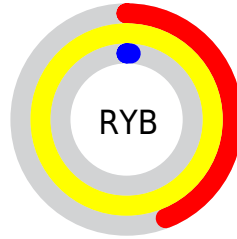
The CIELCh color **78, 82.638, 78.015** is a dark color, and the websafe version is hex **FF9900**. The color can be described as middle saturated orange. A complement of this color would be **42, 103.907, 298.690**, and the grayscale version is **74, 0.009, 296.813**.

A 20% lighter version of the original color is **92, 73.583, 97.302**, and **58, 66.643, 74.574** is the 20% darker color. If you saturate the color by 10%, you get **78, 82.727, 77.929**, and if you desaturate by 10%, it is **80, 79.842, 80.400**.

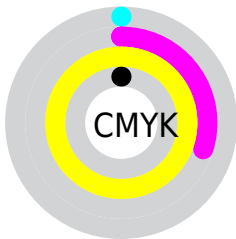
Distribution



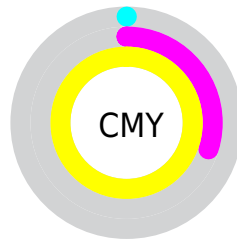
- Red (100%)
- Green (70%)
- Blue (1%)



- Red (44%)
- Yellow (100%)
- Blue (1%)



- Cyan (0%)
- Magenta (30%)
- Yellow (99%)
- Black (0%)



- Cyan (0%)
- Magenta (30%)
- Yellow (99%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 78, 82.638, 78.015 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, 82.638, 78.015 by changing the saturation by 10% instead.

 78, 82.638, 78.015

 78, 82.638, 78.015

 100, 82.638,
78.015

 68, 82.638, 78.015

 98, 82.638, 78.015

 58, 82.638, 78.015

 48, 82.638, 78.015

 38, 82.638, 78.015

 28, 82.638, 78.015

 18, 82.638, 78.015

 8, 82.638, 78.015

 0, 82.638, 78.015

 78, 82.638, 78.015

 78, 82.638, 78.015

78, 82.727, 77.929

80, 79.842, 80.400

82, 74.312, 82.329

84, 66.591, 83.993

86, 57.594, 85.515

88, 47.977, 86.959

90, 38.129, 88.354

93, 28.266, 89.708

95, 18.498, 91.021

98, 8.878, 92.281

Harmonies

Complementary

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



78, 82.638, 78.015



42, 103.907, 298.690

Rectangle

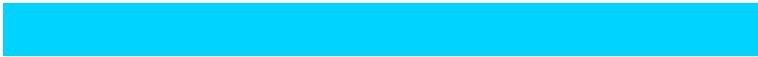
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



78, 82.638, 78.015



78, 82.638, 128.015



78, 82.638, 258.015



78, 82.638, 308.015

Sweetspot

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



78, 82.593, 78.072



93, 28.857, 89.628



54, 87.305, 20.499



48, 19.747, 89.061



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, 82.593, 78.072



78, 82.727, 77.929



94, 99.025, 113.941



52, 5.371, 92.268



60, 66.682, 78.425



20, 28.532, 81.143

Inverse Universe

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



42, 103.907, 298.690



42, 104.558, 298.874



34, 132.010, 306.994



50, 5.386, 274.732



31, 82.740, 298.284



8, 33.209, 293.383

Previews

White Background



This preview shows how the CIELCh color 78, 82.638, 78.015 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 CIE LCh color 78, 82.638, 78.015 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, 82.638, 78.015

Background



This preview shows how black text looks on a background with the CIELCh color 78, 82.638, 78.015.



This preview shows how white text looks on a background with the CIELCh color 78, 82.638, 78.015.

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, 82.537, 77.995

Protanopia

78, 77.980, 95.130

Deuteranopia

78, 80.973, 83.017



Tritanopia
78, 33.414, 13.422

Trichromacy



Original Color
78, 82.537, 77.995

Protanomaly
78, 78.594, 88.749

Deuteranomaly
78, 81.415, 81.087

Tritanomaly
78, 48.228, 59.980

Monochromacy



Original Color
78, 82.537, 77.995

Achromatopsia
74, 0.009, 296.813

Achromatomaly
74, 36.320, 87.657

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 78, 82.638, 78.015 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(255, 178, 2)` looks like.

```
.text, #text, p{  
    color:rgb(255, 178, 2)  
}
```

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(255, 178, 2) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 178, 2) }
```

Border

The CSS property to change the border of an element to CIELCh 78, 82.638, 78.015 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(255, 178, 2) }
```

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

```
.border{ border-color:rgb(255, 178, 2) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 178, 2)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 178, 2); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 178, 2);  
box-shadow:4px 4px 4px 4px rgb(255, 178,  
2) }
```

Background

The CSS property to change the background color of an element to CIELCh 78, 82.638, 78.015 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 178, 2) }
```

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

```
.background{ background-color: rgb(255,  
178, 2) }
```

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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