

Converting Colors

CIELCh(72, 77.736, 78.496)

Have a look what the booklet for
CIELCh(72, 77.736, 78.496) contains.

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Color

CIELCh(72, 77.315, 78.324)

Conversions

Conversions Part 1

Format	Color
Hex	E9A301
RGB	233, 163, 1
RGB Percent	91%, 64%, 0%
CMY	0.0851, 0.3598, 0.9974
CMYK	0.00, 0.30, 1.00, 0.09
HSL	42°, 99%, 46%
HSV	42°, 100%, 91%
XYZ	46.8466, 43.6590, 5.9767
YIQ	165.4620, 93.7220, -35.5420

Conversions

Conversions Part 2

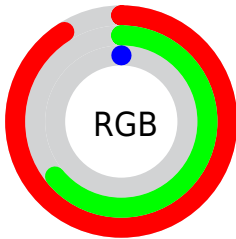
Format	Color
RYB	101, 233, 1
Decimal	15311617
CIELab	72.00, 15.65, 75.72
CIELCh	72, 77.315, 78.324
Yxy	43.6590, 0.4855, 0.4525
Android (android.graphics.Color)	4293501697 (0xFFE9A301)
YUV	165.4620, -81.0798, 59.2308
Hunter-Lab	66.0750, 10.9238, 40.8895

Details

The CIELCh color **72, 77.315, 78.324** is a dark color, and the websafe version is hex **CC9900**. The color can be described as middle washed orange. A complement of this color would be **39, 97.267, 298.721**, and the grayscale version is **68, 0.008, 296.813**.

A 20% lighter version of the original color is **88, 70.435, 91.252**, and **52, 61.153, 74.723** is the 20% darker color. If you saturate the color by 10%, you get **72, 77.381, 78.261**, and if you desaturate by 10%, it is **74, 74.640, 80.603**.

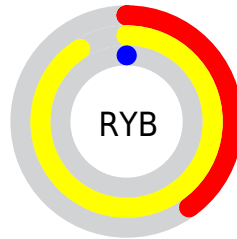
Distribution



Red (91%)

Green (64%)

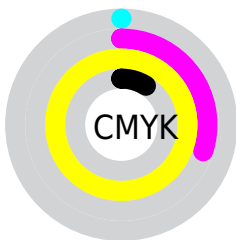
Blue (0%)



Red (40%)

Yellow (91%)

Blue (0%)

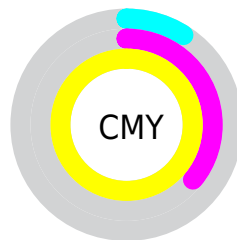


Cyan (0%)

Magenta (30%)

Yellow (100%)

Black (9%)



Cyan (9%)

Magenta (36%)

Yellow (100%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 72, 77.315, 78.324 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 72, 77.315, 78.324 by changing the saturation by 10% instead.

 72, 77.315, 78.324

 72, 77.315, 78.324

 100, 77.315,
78.324

 62, 77.315, 78.324

 92, 77.315, 78.324

 52, 77.315, 78.324

 42, 77.315, 78.324

 32, 77.315, 78.324

 22, 77.315, 78.324

 12, 77.315, 78.324

 2, 77.315, 78.324

 0, 77.315, 78.324

 72, 77.315, 78.324

 72, 77.315, 78.324

72, 77.381, 78.261

74, 74.640, 80.603

76, 69.486, 82.511

77, 62.304, 84.162

79, 53.937, 85.673

81, 44.988, 87.107

84, 35.819, 88.494

86, 26.631, 89.840

88, 17.526, 91.146

90, 8.556, 92.400

Harmonies

Complementary

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



72, 77.315, 78.324



39, 97.267, 298.721

Rectangle

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



72, 77.315, 78.324



72, 77.315, 128.324



72, 77.315, 258.324



72, 77.315, 308.324

Sweetspot

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



72, 77.313, 78.327



93, 28.909, 89.783



49, 81.615, 20.369



48, 19.780, 89.216



0, 0.000, 0.000



53, 0.007, 296.813

Same Dimension

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



72, 77.313, 78.327



78, 82.750, 78.121



87, 92.619, 113.915



48, 5.025, 92.430



57, 64.049, 78.722



16, 23.816, 81.620

Inverse Universe

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



39, 97.267, 298.721



42, 104.865, 298.971



30, 123.497, 307.025



46, 5.041, 274.869



29, 79.355, 298.250



6, 27.927, 290.398

Previews

White Background



This preview shows how the CIELCh color 72, 77.315, 78.324 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 72, 77.315, 78.324 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 72, 77.315, 78.324

Background



This preview shows how black text looks on a background with the CIELCh color 72, 77.315, 78.324.



This preview shows how white text looks on a background with the CIELCh color 72, 77.315, 78.324.

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

72, 77.199, 78.299

Protanopia

72, 72.706, 94.788

Deuteranopia

72, 75.940, 83.129



Tritanopia
72, 35.677, 13.533

Trichromacy



Original Color
72, 77.199, 78.299

Protanomaly
72, 73.518, 88.602

Deuteranomaly
72, 76.299, 81.365

Tritanomaly
72, 47.049, 57.298

Monochromacy



Original Color
72, 77.199, 78.299

Achromatopsia
68, 0.008, 296.813

Achromatomaly
69, 33.901, 88.223

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 72, 77.315, 78.324 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(233, 163, 1)` looks like.

```
.text, #text, p{  
    color:rgb(233, 163, 1)  
}
```

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(233, 163, 1) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(233, 163, 1) }
```

Border

The CSS property to change the border of an element to CIELCh 72, 77.315, 78.324 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(233, 163, 1) }
```

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

```
.border{ border-color:rgb(233, 163, 1) }
```

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

Here you see how a box with a 4 pixel `rgb(233, 163, 1)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(233, 163, 1); -webkit-box-  
shadow:4px 4px 4px 4px rgb(233, 163, 1);  
box-shadow:4px 4px 4px 4px rgb(233, 163,  
1) }
```

Background

The CSS property to change the background color of an element to CIELCh 72, 77.315, 78.324 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(233, 163, 1) }
```

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

```
.background{ background-color: rgb(233,  
163, 1) }
```

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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