

Converting Colors

CIELCh(76, 82.504, 74.763)

Have a look what the booklet for
CIELCh(76, 82.504, 74.763) contains.

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Color

CIELCh(76, 82.406, 74.995)

Conversions

Conversions Part 1

Format	Color
Hex	FFAA00
RGB	255, 170, 0
RGB Percent	100%, 67%, 0%
CMY	0.0010, 0.3341, 0.9983
CMYK	0.00, 0.33, 1.00, 0.00
HSL	40°, 100%, 50%
HSV	40°, 100%, 100%
XYZ	55.4887, 49.8872, 6.7167
YIQ	176.0350, 105.2300, -34.8500

Conversions

Conversions Part 2

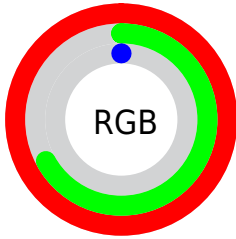
Format	Color
R _Y B	128, 255, 0
Decimal	16755200
CIE Lab	76.00, 21.34, 79.60
CIE LCh	76, 82.406, 74.995
Yxy	49.8872, 0.4950, 0.4451
Android (android.graphics.Color)	4294945280 (0xFFFFAA00)
YUV	176.0350, -86.7853, 69.2523
Hunter-Lab	70.6309, 16.6283, 43.8034

Details

The CIELCh color **76, 82.406, 74.995** 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 **44, 99.490, 297.224**, and the grayscale version is **72, 0.009, 296.813**.

A 20% lighter version of the original color is **90, 71.607, 93.978**, and **56, 66.771, 70.652** is the 20% darker color. If you saturate the color by 10%, you get **76, 82.448, 74.953**, and if you desaturate by 10%, it is **78, 79.423, 77.527**.

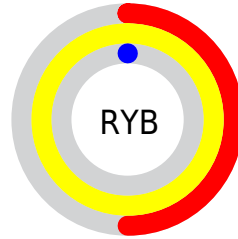
Distribution



Red (100%)

Green (67%)

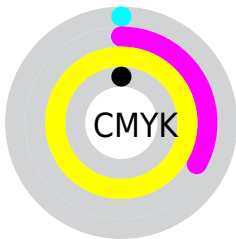
Blue (0%)



Red (50%)

Yellow (100%)

Blue (0%)

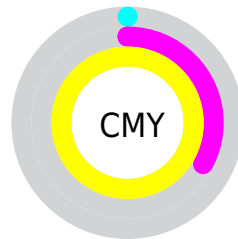


Cyan (0%)

Magenta (33%)

Yellow (100%)

Black (0%)



Cyan (0%)

Magenta (33%)

Yellow (100%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 76, 82.406, 74.995 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 76, 82.406, 74.995 by changing the saturation by 10% instead.

76, 82.406, 74.995

76, 82.406, 74.995

100, 82.406,
74.995

66, 82.406, 74.995

96, 82.406, 74.995

56, 82.406, 74.995

46, 82.406, 74.995

36, 82.406, 74.995

26, 82.406, 74.995

16, 82.406, 74.995

6, 82.406, 74.995

0, 82.406, 74.995

76, 82.406, 74.995

76, 82.406, 74.995

76, 82.448, 74.953

78, 79.423, 77.527

80, 73.735, 79.593

82, 65.909, 81.336

85, 56.887, 82.907

87, 47.322, 84.386

89, 37.595, 85.808

92, 27.908, 87.187

95, 18.361, 88.522

97, 8.999, 89.805

Harmonies

Complementary

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



76, 82.406, 74.995



44, 99.490, 297.224

Rectangle

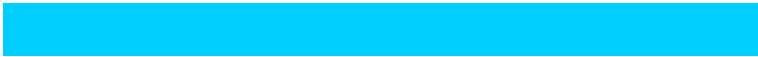
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



76, 82.406, 74.995



76, 82.406, 124.995



76, 82.406, 254.995



76, 82.406, 304.995

Sweetspot

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



76, 82.404, 74.998



92, 28.095, 87.163



54, 86.178, 17.594



48, 19.244, 86.586



0, 0.000, 0.000



53, 0.007, 296.813

Same Dimension

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



76, 82.404, 74.998



76, 82.509, 74.952



94, 98.345, 112.053



52, 5.207, 89.845



58, 66.472, 75.501



19, 28.085, 78.269

Inverse Universe

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



44, 99.490, 297.224



44, 99.750, 297.282



33, 132.569, 306.781



50, 5.205, 272.357



33, 78.898, 296.650



8, 31.648, 291.507

Previews

White Background



This preview shows how the CIELCh color 76, 82.406, 74.995 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 76, 82.406, 74.995 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 76, 82.406, 74.995

Background



This preview shows how black text looks on a background with the CIELCh color 76, 82.406, 74.995.



This preview shows how white text looks on a background with the CIELCh color 76, 82.406, 74.995.

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

76, 82.511, 75.020

Protanopia

76, 75.966, 94.896

Deuteranopia

76, 79.246, 83.152



Tritanopia
76, 37.286, 14.043

Trichromacy



Original Color
76, 82.511, 75.020

Protanomaly
76, 77.051, 86.973

Deuteranomaly
76, 80.098, 80.217

Tritanomaly
75, 50.502, 55.724

Monochromacy



Original Color
76, 82.511, 75.020

Achromatopsia
72, 0.009, 296.813

Achromatomaly
73, 36.042, 85.165

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 76, 82.406, 74.995 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, 170, 0)` looks like.

```
.text, #text, p{  
    color:rgb(255, 170, 0)  
}
```

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, 170, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 170, 0) }
```

Border

The CSS property to change the border of an element to CIELCh 76, 82.406, 74.995 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, 170, 0) }
```

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

```
.border{ border-color:rgb(255, 170, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 170, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 170, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 170, 0);  
box-shadow:4px 4px 4px 4px rgb(255, 170,  
0) }
```

Background

The CSS property to change the background color of an element to CIELCh 76, 82.406, 74.995 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 170, 0) }
```

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

```
.background{ background-color: rgb(255,  
170, 0) }
```

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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