

Converting Colors

CIELCh(75, 78.638, 71.283)

Have a look what the booklet for
CIELCh(75, 78.638, 71.283) contains.

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Color

CIELCh(75, 78.217, 71.517)

Conversions

Conversions Part 1

Format	Color
Hex	FFA51F
RGB	255, 165, 31
RGB Percent	100%, 65%, 12%
CMY	0.0000, 0.3544, 0.8787
CMYK	0.00, 0.35, 0.88, 0.00
HSL	36°, 100%, 56%
HSV	36°, 88%, 100%
XYZ	55.1512, 48.2781, 7.7021
YIQ	176.6340, 96.6540, -22.5940

Conversions

Conversions Part 2

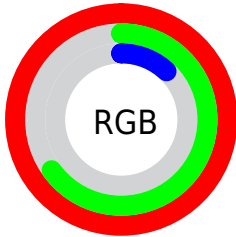
Format	Color
RYB	181, 255, 31
Decimal	16753951
CIELab	75.00, 24.80, 74.18
CIELCh	75, 78.217, 71.517
Yxy	48.2781, 0.4963, 0.4344
Android (android.graphics.Color)	4294944031 (0xFFFFA51F)
YUV	176.6340, -71.7976, 68.7270
Hunter-Lab	69.4824, 20.0889, 42.0654

Details

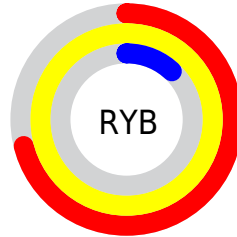
The CIELCh color **75, 78.217, 71.517** is a dark color, and the websafe version is hex **FF9900**. The color can be described as middle washed orange. A complement of this color would be **53, 77.166, 288.142**, and the grayscale version is **72, 0.009, 296.813**.

A 20% lighter version of the original color is **89, 65.409, 91.571**, and **55, 67.035, 68.238** is the 20% darker color. If you saturate the color by 10%, you get **73, 82.242, 68.971**, and if you desaturate by 10%, it is **77, 71.108, 73.832**.

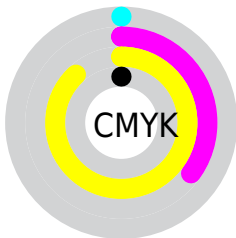
Distribution



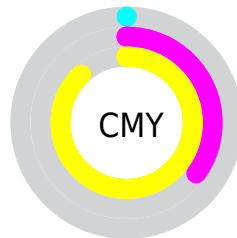
- Red (100%)
- Green (65%)
- Blue (12%)



- Red (71%)
- Yellow (100%)
- Blue (12%)



- Cyan (0%)
- Magenta (35%)
- Yellow (88%)
- Black (0%)



- Cyan (0%)
- Magenta (35%)
- Yellow (88%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 75, 78.217, 71.517 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 75, 78.217, 71.517 by changing the saturation by 10% instead.

75, 78.217, 71.517

75, 78.217, 71.517

100, 78.217,
71.517

65, 78.217, 71.517

95, 78.217, 71.517

55, 78.217, 71.517

45, 78.217, 71.517

35, 78.217, 71.517

25, 78.217, 71.517

15, 78.217, 71.517

5, 78.217, 71.517

0, 78.217, 71.517

75, 78.217, 71.517

75, 78.217, 71.517

73, 82.242, 68.971

77, 71.108, 73.832

72, 82.965, 68.358

80, 62.510, 75.587

83, 53.131, 77.158

85, 43.523, 78.634

88, 33.978, 80.057

91, 24.635, 81.441

94, 15.550, 82.783

98, 6.740, 84.066

100, 0.012,
296.813

Harmonies

Complementary

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



75, 78.217, 71.517



53, 77.166, 288.142

Rectangle

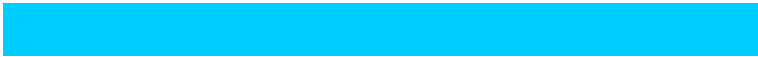
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



75, 78.217, 71.517



75, 78.217, 121.517



75, 78.217, 251.517



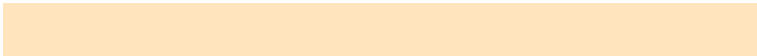
75, 78.217, 301.517

Sweetspot

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



75, 78.014, 71.711



92, 22.911, 81.696



56, 81.740, 5.322



48, 15.614, 81.223



0, 0.000, 0.000



53, 0.007, 296.813

Same Dimension

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



75, 78.014, 71.711



72, 82.965, 68.358



96, 94.327, 107.786



52, 4.879, 83.864



55, 66.741, 69.003



18, 27.356, 71.541

Inverse Universe

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



53, 77.166, 288.142



48, 88.730, 293.010



36, 125.899, 305.794



50, 4.837, 266.447



36, 70.158, 292.288



10, 28.191, 286.542

Previews

White Background



This preview shows how the CIELCh color 75, 78.217, 71.517 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 75, 78.217, 71.517 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 75, 78.217, 71.517

Background



This preview shows how black text looks on a background with the CIELCh color 75, 78.217, 71.517.



This preview shows how white text looks on a background with the CIELCh color 75, 78.217, 71.517.

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

75, 77.998, 71.852

Protanopia

75, 70.797, 95.062

Deuteranopia

75, 75.460, 82.741



Tritanopia
75, 39.045, 15.454

Trichromacy



Original Color
75, 77.998, 71.852

Protanomaly
75, 71.723, 86.200

Deuteranomaly
75, 76.105, 78.532

Tritanomaly
75, 48.049, 49.586

Monochromacy



Original Color
75, 77.998, 71.852

Achromatopsia
72, 0.009, 296.813

Achromatomaly
72, 30.145, 79.904

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 75, 78.217, 71.517 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, 165, 31)` looks like.

```
.text, #text, p{  
    color:rgb(255, 165, 31)  
}
```

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, 165, 31) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 165, 31) }
```

Border

The CSS property to change the border of an element to CIELCh 75, 78.217, 71.517 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, 165, 31) }
```

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

```
.border{ border-color:rgb(255, 165, 31) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 165, 31)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 165, 31); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 165, 31);  
box-shadow:4px 4px 4px 4px rgb(255, 165,  
31) }
```

Background

The CSS property to change the background color of an element to CIELCh 75, 78.217, 71.517 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 165, 31) }
```

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

```
.background{ background-color: rgb(255,  
165, 31) }
```

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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