

Converting Colors

CIELCh(77, 70.000, 85.000)

Have a look what the booklet for
CIELCh(77, 70.000, 85.000) contains.

CIELCh(77, 69.835, 85.077)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	11
<i>Previews</i>	20
<i>Color Blindness Simulation</i>	23
<i>CSS Examples</i>	26

Color

CIELCh(77, 69.835, 85.077)

Conversions

Conversions Part 1

Format	Color
Hex	E9B731
RGB	233, 183, 49
RGB Percent	91%, 72%, 19%
CMY	0.0854, 0.2816, 0.8070
CMYK	0.00, 0.21, 0.79, 0.09
HSL	44°, 81%, 55%
HSV	44°, 79%, 91%
XYZ	51.2092, 51.5317, 10.1780
YIQ	182.6740, 72.8140, -31.0740

Conversions

Conversions Part 2

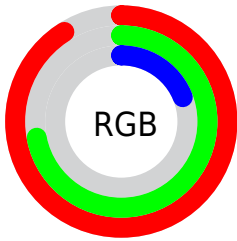
Format	Color
R_{YB}	118, 233, 49
Decimal	15316785
CIE _{Lab}	77.00, 5.99, 69.58
CIE _{LCh}	77, 69.835, 85.077
Yxy	51.5317, 0.4535, 0.4564
Android (android.graphics.Color)	4293506865 (0xFFE9B731)
YUV	182.6740, -65.9013, 44.1359
Hunter-Lab	71.7856, 1.7104, 41.8436

Details

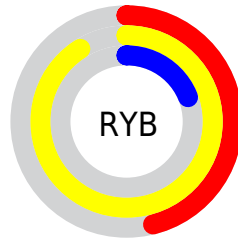
The CIELCh color **77, 69.835, 85.077** is a light color, and the websafe version is hex **FFCC33**. The color can be described as light washed orange. A complement of this color would be **46, 78.770, 293.284**, and the grayscale version is **75, 0.009, 296.813**.

A 20% lighter version of the original color is **93, 65.612, 99.116**, and **57, 62.730, 83.654** is the 20% darker color. If you saturate the color by 10%, you get **75, 74.988, 83.326**, and if you desaturate by 10%, it is **79, 62.649, 86.634**.

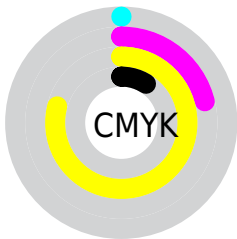
Distribution



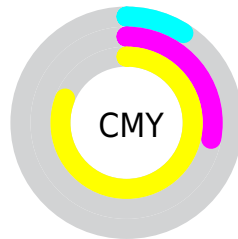
- Red (91%)
- Green (72%)
- Blue (19%)



- Red (46%)
- Yellow (91%)
- Blue (19%)



- Cyan (0%)
- Magenta (21%)
- Yellow (79%)
- Black (9%)



- Cyan (9%)
- Magenta (28%)
- Yellow (81%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 77, 69.835, 85.077 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 77, 69.835, 85.077 by changing the saturation by 10% instead.

■ 77, 69.835, 85.077

■ 77, 69.835, 85.077

■ 100, 69.835,
85.077

■ 67, 69.835, 85.077

■ 97, 69.835, 85.077

■ 57, 69.835, 85.077

■ 47, 69.835, 85.077

■ 37, 69.835, 85.077

■ 27, 69.835, 85.077

■ 17, 69.835, 85.077

■ 7, 69.835, 85.077

■ 0, 69.835, 85.077

■ 77, 69.835, 85.077

■ 77, 69.835, 85.077

75, 74.988, 83.326

79, 62.649, 86.634

74, 77.572, 81.265

81, 54.246, 88.083

74, 77.802, 81.031

82, 45.217, 89.472

84, 35.922, 90.821

86, 26.568, 92.136

88, 17.262, 93.412

91, 8.062, 94.639

93, 1.008, 276.087

95, 7.907, 273.063

Harmonies

Complementary

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



77, 69.835, 85.077



46, 78.770, 293.284

Rectangle

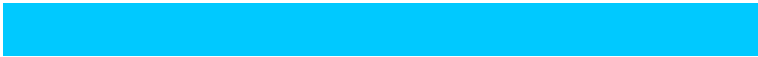
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



77, 69.835, 85.077



77, 69.835, 135.077



77, 69.835, 265.077



77, 69.835, 315.077

Sweetspot

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



77, 69.834, 85.080



95, 23.658, 92.751



52, 72.450, 12.804



50, 16.288, 92.291



0, 0.000, 0.000



53, 0.007, 296.813

Same Dimension

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



77, 69.834, 85.080



81, 82.274, 81.999



87, 85.077, 114.622



48, 5.178, 94.570



58, 64.435, 81.442



17, 24.303, 84.324

Inverse Universe

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



46, 78.770, 293.284



43, 103.686, 298.790



38, 106.434, 306.531



46, 5.208, 276.958



28, 82.730, 299.628



5, 28.834, 291.489

Previews

White Background



This preview shows how the CIELCh color 77, 69.835, 85.077 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 77, 69.835, 85.077 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 77, 69.835, 85.077

Background



This preview shows how black text looks on a background with the CIELCh color 77, 69.835, 85.077.



This preview shows how white text looks on a background with the CIELCh color 77, 69.835, 85.077.

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

77, 69.835, 85.077

Protanopia

77, 68.743, 95.236

Deuteranopia

77, 70.261, 82.112



Tritanopia
77, 28.093, 7.807

Trichromacy



Original Color
77, 69.835, 85.077

Protanomaly
77, 68.919, 91.450

Deuteranomaly
77, 70.041, 83.224

Tritanomaly
77, 35.007, 57.980

Monochromacy



Original Color
77, 69.835, 85.077

Achromatopsia
74, 0.009, 296.813

Achromatomaly
75, 27.300, 91.829

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 77, 69.835, 85.077 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, 183, 49)` looks like.

```
.text, #text, p{  
    color:rgb(233, 183, 49)  
}
```

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, 183, 49) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(233, 183, 49) }
```

Border

The CSS property to change the border of an element to CIELCh 77, 69.835, 85.077 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, 183, 49) }
```

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

```
.border{ border-color:rgb(233, 183, 49) }
```

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

Here you see how a box with a 4 pixel `rgb(233, 183, 49)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(233, 183, 49); -webkit-box-  
shadow:4px 4px 4px 4px rgb(233, 183, 49);  
box-shadow:4px 4px 4px 4px rgb(233, 183,  
49) }
```

Background

The CSS property to change the background color of an element to CIELCh 77, 69.835, 85.077 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(233, 183, 49) }
```

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

```
.background{ background-color: rgb(233,  
183, 49) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor