

Converting Colors

CIELCh(70, 46.429, 83.220)

Have a look what the booklet for
CIELCh(70, 46.429, 83.220) contains.

CIELCh(70, 46.228, 83.109)	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(70, 46.228, 83.109)

Conversions

Conversions Part 1

Format	Color
Hex	CDA556
RGB	205, 165, 86
RGB Percent	80%, 65%, 34%
CMY	0.1946, 0.3515, 0.6614
CMYK	0.00, 0.19, 0.58, 0.19
HSL	40°, 55%, 57%
HSV	40°, 58%, 81%
XYZ	40.4958, 40.7494, 14.6062
YIQ	167.9540, 49.1990, -16.0890

Conversions

Conversions Part 2

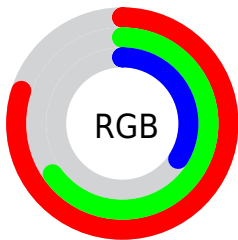
Format	Color
RYB	146, 205, 86
Decimal	13477206
CIELab	70.00, 5.55, 45.89
CIELCh	70, 46.228, 83.109
Yxy	40.7494, 0.4225, 0.4251
Android (android.graphics.Color)	4291667286 (0xFFCDA556)
YUV	167.9540, -40.4033, 32.4893
Hunter-Lab	63.8353, 1.5250, 31.1185

Details

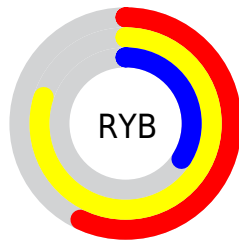
The CIELCh color **70, 46.228, 83.109** is a light color, and the websafe version is hex **CC9933**. The color can be described as light muted orange. A complement of this color would be **53, 46.191, 282.250**, and the grayscale version is **69, 0.009, 296.813**.

A 20% lighter version of the original color is **89, 44.660, 87.763**, and **50, 46.124, 82.642** is the 20% darker color. If you saturate the color by 10%, you get **68, 53.970, 81.589**, and if you desaturate by 10%, it is **72, 38.142, 84.558**.

Distribution



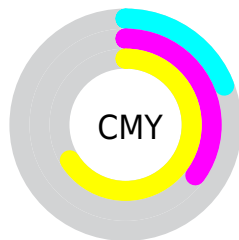
- Red (80%)
- Green (65%)
- Blue (34%)



- Red (57%)
- Yellow (80%)
- Blue (34%)



- Cyan (0%)
- Magenta (19%)
- Yellow (58%)
- Black (19%)



- Cyan (19%)
- Magenta (35%)
- Yellow (66%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 70, 46.228, 83.109 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 70, 46.228, 83.109 by changing the saturation by 10% instead.

 70, 46.228, 83.109

 70, 46.228, 83.109

 100, 46.228,
83.109

 60, 46.228, 83.109

 90, 46.228, 83.109

 50, 46.228, 83.109

 40, 46.228, 83.109

 30, 46.228, 83.109

 20, 46.228, 83.109

 10, 46.228, 83.109

 0, 46.228, 83.109

 70, 46.228, 83.109

 70, 46.228, 83.109

 68, 53.970, 81.589

 72, 38.142, 84.558

66, 60.901, 79.922

74, 29.979, 85.953

64, 66.301, 77.988

76, 21.877, 87.307

63, 69.525, 75.631

78, 13.906, 88.618

62, 70.098, 75.144

81, 6.093, 89.870

83, 1.553, 271.300

85, 9.036, 272.348

88, 16.366,
273.465

90, 15.864,
263.922

Harmonies

Complementary

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



70, 46.228, 83.109



53, 46.191, 282.250

Rectangle

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



70, 46.228, 83.109



70, 46.228, 133.109



70, 46.228, 263.109



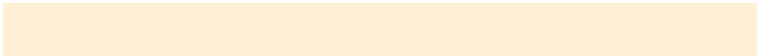
70, 46.228, 313.109

Sweetspot

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



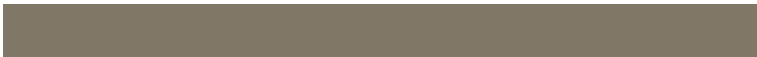
70, 46.228, 83.113



95, 15.673, 88.714



53, 51.151, 0.723



50, 10.507, 88.452



0, 0.000, 0.000



53, 0.007, 296.813

Same Dimension

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



70, 46.228, 83.113



82, 66.042, 81.121



79, 60.303, 111.966



42, 4.324, 89.697



51, 59.784, 75.625



10, 15.358, 78.330

Inverse Universe

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



53, 46.191, 282.250



59, 67.405, 286.328



44, 70.651, 302.503



40, 4.322, 272.151



28, 69.928, 296.135



4, 18.146, 281.892

Previews

White Background



This preview shows how the CIELCh color 70, 46.228, 83.109 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 70, 46.228, 83.109 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 70, 46.228, 83.109

Background



This preview shows how black text looks on a background with the CIELCh color 70, 46.228, 83.109.



This preview shows how white text looks on a background with the CIELCh color 70, 46.228, 83.109.

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

70, 46.228, 83.109

Protanopia

70, 44.809, 95.486

Deuteranopia

70, 46.620, 78.571



Tritanopia
70, 22.717, 5.017

Trichromacy



Original Color
70, 46.228, 83.109

Protanomaly
70, 45.253, 90.965

Deuteranomaly
70, 46.366, 80.247

Tritanomaly
70, 24.368, 48.693

Monochromacy



Original Color
70, 46.228, 83.109

Achromatopsia
69, 0.009, 296.813

Achromatomaly
69, 17.002, 87.450

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 70, 46.228, 83.109 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(205, 165, 86)` looks like.

```
.text, #text, p{  
    color:rgb(205, 165, 86)  
}
```

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(205, 165, 86) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(205, 165, 86) }
```

Border

The CSS property to change the border of an element to CIELCh 70, 46.228, 83.109 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(205, 165, 86) }
```

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

```
.border{ border-color:rgb(205, 165, 86) }
```

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

Here you see how a box with a 4 pixel `rgb(205, 165, 86)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(205, 165, 86); -webkit-box-  
shadow:4px 4px 4px 4px rgb(205, 165, 86);  
box-shadow:4px 4px 4px 4px rgb(205, 165,  
86) }
```

Background

The CSS property to change the background color of an element to CIELCh 70, 46.228, 83.109 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(205, 165, 86) }
```

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

```
.background{ background-color: rgb(205,  
165, 86) }
```

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