

# Converting Colors

CIELCh(46, 11.951, 20.902)

Have a look what the booklet for  
CIELCh(46, 11.951, 20.902) contains.

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**Color**

**CIELCh(46, 12.011, 20.901)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	826666
RGB	130, 102, 102
RGB Percent	51%, 40%, 40%
CMY	0.4894, 0.5992, 0.5992
CMYK	0.00, 0.22, 0.22, 0.49
HSL	0°, 12%, 46%
HSV	0°, 22%, 51%
XYZ	16.4182, 15.2687, 14.7048
YIQ	110.3720, 16.6880, 5.9360

# Conversions

## Conversions Part 2

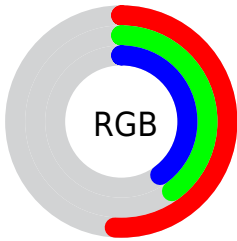
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	130, 102, 102
Decimal	8545894
CIE <sub>Lab</sub>	46.00, 11.22, 4.28
CIE <sub>LCh</sub>	46, 12.011, 20.901
Yxy	15.2687, 0.3539, 0.3291
Android (android.graphics.Color)	4286735974 (0xFF826666)
YUV	110.3720, -4.1274, 17.2138
Hunter-Lab	39.0751, 6.6190, 5.0405

# Details

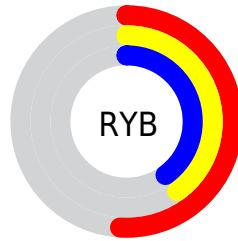
The CIELCh color **46, 12.011, 20.901** is a dark color, and the websafe version is hex **996666**. A complement of this color would be **52, 10.479, 198.372**, and the grayscale version is **47, 0.006, 296.813**.

A 20% lighter version of the original color is **66, 11.877, 20.489**, and **26, 12.025, 21.711** is the 20% darker color. If you saturate the color by 10%, you get **42, 18.249, 21.958**, and if you desaturate by 10%, it is **50, 6.188, 20.070**.

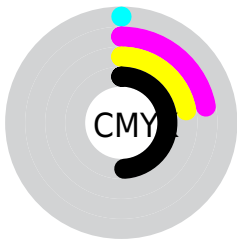
# Distribution



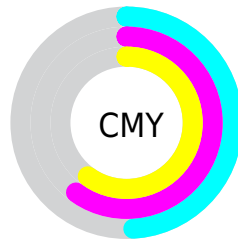
- Red (51%)
- Green (40%)
- Blue (40%)



- Red (51%)
- Yellow (40%)
- Blue (40%)



- Cyan (0%)
- Magenta (22%)
- Yellow (22%)
- Black (49%)















- Cyan (49%)
- Magenta (60%)
- Yellow (60%)







# Brightness & Saturation Gradients

These gradients show how the CIELCh color 46, 12.011, 20.901 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 46, 12.011, 20.901 by changing the saturation by 10% instead.



 46, 12.011, 20.901	 46, 12.011, 20.901
 100, 12.011, 20.901	 36, 12.011, 20.901
 66, 12.011, 20.901	 26, 12.011, 20.901
 76, 12.011, 20.901	 16, 12.011, 20.901
 86, 12.011, 20.901	 6, 12.011, 20.901
 96, 12.011, 20.901	 0, 12.011, 20.901

 46, 12.011, 20.901	 46, 12.011, 20.901
 42, 18.249, 21.958	 50, 6.188, 20.070
 39, 24.873, 23.310	 54, 0.783, 18.990

35, 31.800, 25.058

58, 4.229, 199.101

32, 38.886, 27.301

62, 8.881, 198.653

30, 45.925, 30.106

66, 13.209,  
198.318

28, 52.634, 33.410

70, 17.250,  
198.050

27, 58.414, 36.687

74, 21.039,  
197.831

26, 62.182, 38.520

78, 24.606,  
197.651

82, 27.979,  
197.500

# Harmonies

# Complementary

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



46, 12.011, 20.901



52, 10.479, 198.372

# Rectangle

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



46, 12.011, 20.901



46, 12.011, 70.901



46, 12.011, 200.901



46, 12.011, 250.901

# Sweetspot

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



46, 12.010, 20.908



66, 3.898, 19.653



47, 19.899, 325.564



34, 2.578, 19.695



85, 0.010, 296.813



36, 0.005, 296.813



# Same Dimension

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



46, 12.010, 20.908



56, 18.243, 21.409



50, 10.167, 72.850



26, 3.050, 19.889



26, 62.117, 38.510



0, 0.707, 19.415





# Inverse Universe

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



52, 10.479, 198.372



66, 15.361, 198.137



48, 9.625, 258.419



28, 2.886, 199.023



49, 30.404, 196.404



1, 0.707, 199.432



# Previews

## White Background



This preview shows how the CIELCh color 46, 12.011, 20.901 looks on a white 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 × Fail

# Black Background



This preview shows how the CIE LCh color 46, 12.011, 20.901 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

If you want to check with other color combinations, try the [Color Contrast Checker](#).

# CIELCh 46, 12.011, 20.901

## Background



This preview shows how black text looks on a background with the CIELCh color 46, 12.011, 20.901.



This preview shows how white text looks on a background with the CIELCh color 46, 12.011, 20.901.

# 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

46, 12.011, 20.901

### Protanopia

46, 2.155, 74.695

### Deuteranopia

46, 7.458, 33.923



**Tritanopia**  
46, 13.405, 0.600



# Trichromacy



**Original Color**  
46, 12.011, 20.901

**Protanomaly**  
46, 5.175, 33.100

**Deuteranomaly**  
46, 9.055, 27.924

**Tritanomaly**  
46, 13.119, 5.517

# Monochromacy



**Original Color**  
46, 12.011, 20.901

**Achromatopsia**  
47, 0.006, 296.813

**Achromatomaly**  
47, 4.153, 19.822

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 46, 12.011, 20.901 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(130, 102, 102)` looks like.

```
.text, #text, p{  
    color:rgb(130, 102, 102)  
}
```

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(130, 102, 102) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(130, 102, 102) }
```

## Border

The CSS property to change the border of an element to CIELCh 46, 12.011, 20.901 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(130, 102, 102) }
```

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

```
.border{ border-color:rgb(130, 102, 102) }
```

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

Here you see how a box with a 4 pixel `rgb(130, 102, 102)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(130, 102, 102); -webkit-box-  
shadow:4px 4px 4px 4px rgb(130, 102, 102);  
box-shadow:4px 4px 4px 4px rgb(130, 102,  
102) }
```

# Background

The CSS property to change the background color of an element to CIELCh 46, 12.011, 20.901 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(130, 102, 102) }
```

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

```
.background{ background-color: rgb(130,  
102, 102) }
```

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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