

# Converting Colors

CIELCh(46, 25.071, 324.732)

Have a look what the booklet for  
CIELCh(46, 25.071, 324.732)  
contains.

<b>CIELCh(46, 24.570, 325.008)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	21
<b><i>Color Blindness Simulation</i></b> .....	24
<b><i>CSS Examples</i></b> .....	27

**Color**

**CIELCh(46, 24.570, 325.008)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	846285
RGB	132, 98, 133
RGB Percent	52%, 38%, 52%
CMY	0.4833, 0.6165, 0.4793
CMYK	0.01, 0.26, 0.00, 0.48
HSL	298°, 15%, 45%
HSV	298°, 26%, 52%
XYZ	18.0448, 15.2687, 24.1035
YIQ	112.1560, 9.0290, 18.0930

# Conversions

## Conversions Part 2

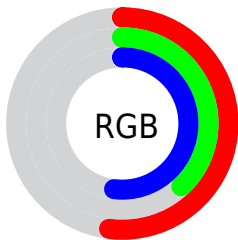
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	132, 98, 133
Decimal	8675973
CIE <sub>Lab</sub>	46.00, 20.13, -14.09
CIE <sub>LCh</sub>	46, 24.570, 325.008
Yxy	15.2687, 0.3143, 0.2659
Android (android.graphics.Color)	4286866053 (0xFF846285)
YUV	112.1560, 10.2761, 17.4032
Hunter-Lab	39.0751, 14.0494, -9.2205

# Details

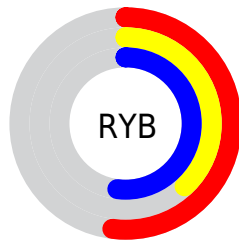
The CIELCh color  $46, 24.570, 325.008$  is a dark color, and the websafe version is hex  $996699$ . A complement of this color would be  $52, 24.528, 142.043$ , and the grayscale version is  $47, 0.006, 296.813$ .

A 20% lighter version of the original color is  $66, 24.618, 325.511$ , and  $26, 24.298, 325.425$  is the 20% darker color. If you saturate the color by 10%, you get  $43, 33.760, 325.496$ , and if you desaturate by 10%, it is  $49, 15.221, 324.499$ .

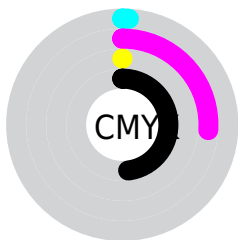
# Distribution



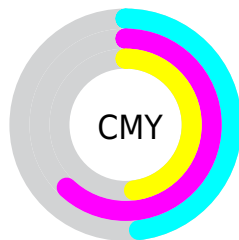
- Red (52%)
- Green (38%)
- Blue (52%)



- Red (52%)
- Yellow (38%)
- Blue (52%)



- Cyan (1%)
- Magenta (26%)
- Yellow (0%)
- Black (48%)



- Cyan (48%)
- Magenta (62%)
- Yellow (48%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 46, 24.570, 325.008 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, 24.570, 325.008 by changing the saturation by 10% instead.



 46, 24.570,  
325.008

 46, 24.570,  
325.008


 100, 24.570,  
325.008

 36, 24.570,  
325.008

 66, 24.570,  
325.008

 26, 24.570,  
325.008

 76, 24.570,  
325.008

 16, 24.570,  
325.008

 86, 24.570,  
325.008

 6, 24.570, 325.008

 96, 24.570,  
325.008

 0, 24.570, 325.008

 46, 24.570,

 46, 24.570,

325.008

43, 33.760,  
325.496

40, 42.569,  
325.949

37, 50.707,  
326.350

35, 57.838,  
326.681

33, 63.625,  
326.925

31, 67.807,  
327.071

31, 70.417,  
327.122

30, 71.274,  
327.135

325.008

49, 15.221,  
324.499

53, 5.881, 323.970

57, 3.338, 143.552

61, 12.366,  
143.019

64, 21.161,  
142.539

68, 29.701,  
142.085

72, 37.979,  
141.656

76, 45.998,  
141.254

■ 80, 53.764,  
140.877

# Harmonies

# Complementary

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



46, 24.570, 325.008



52, 24.528, 142.043

# Rectangle

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



46, 24.570, 325.008



46, 24.570, 15.008



46, 24.570, 145.008



46, 24.570, 195.008

# Sweetspot

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



46, 24.568, 325.008



67, 9.223, 324.070



43, 20.369, 291.889



34, 6.532, 324.142



86, 0.010, 296.813



37, 0.005, 296.813





# Same Dimension

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



46, 24.568, 325.008



57, 37.041, 325.323



46, 18.021, 344.107



26, 5.225, 324.121



30, 70.214, 327.137



0, 1.244, 323.676



# Inverse Universe

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



45, 15.174, 19.170



55, 23.419, 19.934



52, 17.547, 159.656



26, 3.050, 17.558



26, 61.252, 37.376

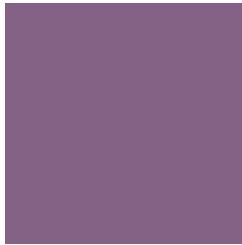


0, 0.708, 17.023



# Previews

## White Background



This preview shows how the CIELCh color 46, 24.570, 325.008 looks on a white background.

## Color Contrast Check

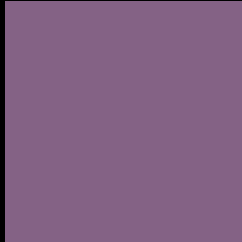
Large Text (above 18pt) WCAG AA ✓ Pass

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, 24.570, 325.008 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

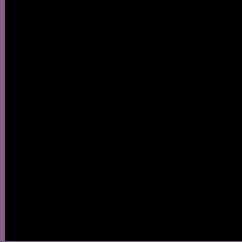
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**CIELCh 46, 24.570, 325.008**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 46, 24.570, 325.008.



This preview shows how white text looks on a background with the CIELCh color 46, 24.570, 325.008.

# 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, 24.570, 325.008

### Protanopia

46, 19.104, 285.276

### Deuteranopia

46, 14.313, 295.127





**Tritanopia**  
46, 12.200, 358.257

# Trichromacy



**Original Color**  
46, 24.570, 325.008

**Protanomaly**  
46, 19.949, 301.315

**Deuteranomaly**  
46, 17.460, 308.810

**Tritanomaly**  
46, 16.181, 340.385

# Monochromacy



**Original Color**  
46, 24.570, 325.008

**Achromatopsia**  
47, 0.006, 296.813

**Achromatomaly**  
47, 9.122, 322.856

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 46, 24.570, 325.008 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(132, 98, 133)` looks like.

```
.text, #text, p{  
    color:rgb(132, 98, 133)  
}
```

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(132, 98, 133) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(132, 98, 133) }
```

## Border

The CSS property to change the border of an element to CIELCh 46, 24.570, 325.008 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(132, 98, 133) }
```

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

```
.border{ border-color:rgb(132, 98, 133) }
```

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

Here you see how a box with a 4 pixel `rgb(132, 98, 133)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(132, 98, 133); -webkit-box-  
shadow:4px 4px 4px 4px rgb(132, 98, 133);  
box-shadow:4px 4px 4px 4px rgb(132, 98,  
133) }
```

# Background

The CSS property to change the background color of an element to CIELCh 46, 24.570, 325.008 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(132, 98, 133) }
```

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

```
.background{ background-color: rgb(132, 98,  
133) }
```

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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