

# Converting Colors

CIELCh(46, 26.629, 303.210)

Have a look what the booklet for  
CIELCh(46, 26.629, 303.210)  
contains.

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# Color

**CIELCh(46, 26.709, 303.634)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	736692
RGB	115, 102, 146
RGB Percent	45%, 40%, 57%
CMY	0.5484, 0.5994, 0.4268
CMYK	0.21, 0.30, 0.00, 0.43
HSL	258°, 18%, 49%
HSV	258°, 30%, 57%
XYZ	17.0584, 15.2687, 29.3086
YIQ	110.9030, -6.3760, 16.4400

# Conversions

## Conversions Part 2

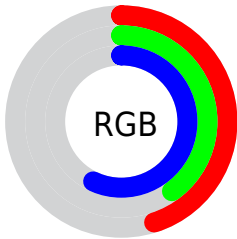
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">115, 102, 146</a>
Decimal	<a href="#">7562898</a>
CIELab	<a href="#">46.00, 14.79, -22.24</a>
CIElCh	<a href="#">46, 26.709, 303.634</a>
Yxy	<a href="#">15.2687, 0.2768, 0.2477</a>
Android (android.graphics.Color)	<a href="#">4285752978 (0xFF736692)</a>
YUV	<a href="#">110.9030, 17.3028, 3.5931</a>
Hunter-Lab	<a href="#">39.0751, 9.5433, -17.1183</a>

# Details

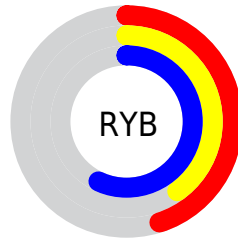
The CIELCh color  $46, 26.709, 303.634$  is a dark color, and the websafe version is hex  $666699$ . A complement of this color would be  $59, 25.179, 119.921$ , and the grayscale version is  $47, 0.006, 296.813$ .

A 20% lighter version of the original color is  $66, 26.715, 303.992$ , and  $26, 26.606, 303.819$  is the 20% darker color. If you saturate the color by 10%, you get  $41, 36.151, 304.461$ , and if you desaturate by 10%, it is  $51, 17.537, 302.886$ .

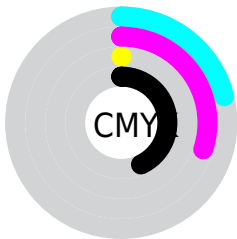
# Distribution



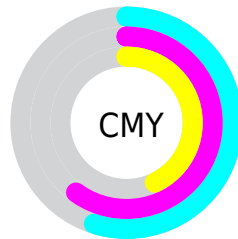
- Red (45%)
- Green (40%)
- Blue (57%)



- Red (45%)
- Yellow (40%)
- Blue (57%)



- Cyan (21%)
- Magenta (30%)
- Yellow (0%)
- Black (43%)




- Cyan (55%)
- Magenta (60%)
- Yellow (43%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 46, 26.709, 303.634 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, 26.709, 303.634 by changing the saturation by 10% instead.





 46, 26.709,  
303.634


 46, 26.709,  
303.634


 100, 26.709,  
303.634


 36, 26.709,  
303.634

 66, 26.709,  
303.634


 26, 26.709,  
303.634


 76, 26.709,  
303.634

 16, 26.709,  
303.634

 86, 26.709,  
303.634

 6, 26.709, 303.634

 96, 26.709,  
303.634

 0, 26.709, 303.634

 46, 26.709,

 46, 26.709,

303.634

41, 36.151,  
304.461

36, 45.795,  
305.352

32, 55.477,  
306.270

28, 64.881,  
307.147

24, 73.455,  
307.866

21, 80.391,  
308.268

18, 85.646,  
308.437

303.634

51, 17.537,  
302.886

56, 8.667, 302.219

61, 0.100, 301.266

65, 8.173, 121.133

70, 16.165,  
120.687

75, 23.890,  
120.303

80, 31.366,  
119.971

84, 38.606,  
119.685

89, 45.625,



# Harmonies

# Complementary

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



46, 26.709, 303.634



59, 25.179, 119.921

# Rectangle

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



46, 26.709, 303.634



46, 26.709, 353.634



46, 26.709, 123.634



46, 26.709, 173.634

# Sweetspot

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



46, 26.708, 303.634



72, 9.593, 302.162



54, 13.054, 232.138



37, 6.734, 302.246



89, 0.011, 296.813



41, 0.006, 296.813





# Same Dimension

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



46, 26.708, 303.634



56, 40.193, 304.176



48, 28.965, 319.594



29, 4.883, 302.163



17, 81.953, 308.487



0, 4.209, 301.631



# Inverse Universe

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



49, 24.978, 336.206



60, 37.091, 336.730



57, 28.543, 136.801



29, 4.695, 334.678



30, 58.811, 344.049



1, 4.076, 334.103



# Previews

## White Background



This preview shows how the CIELCh color 46, 26.709, 303.634 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, 26.709, 303.634 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

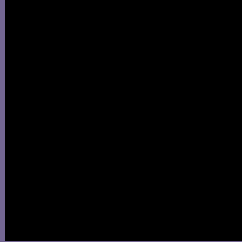
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

# CIELCh 46, 26.709, 303.634

## Background



This preview shows how black text looks on a background with the CIELCh color 46, 26.709, 303.634.



This preview shows how white text looks on a background with the CIELCh color 46, 26.709, 303.634.

# 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, 26.709, 303.634


### Protanopia

46, 25.119, 284.301

### Deuteranopia

46, 22.651, 287.084





**Tritanopia**  
46, 4.838, 300.322

# Trichromacy



**Original Color**  
46, 26.709, 303.634

**Protanomaly**  
46, 25.560, 291.296

**Deuteranomaly**  
46, 23.830, 294.227

**Tritanomaly**  
46, 12.755, 302.272

# Monochromacy



**Original Color**  
46, 26.709, 303.634

**Achromatopsia**  
47, 0.006, 296.813

**Achromatomaly**  
47, 9.733, 302.999

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 46, 26.709, 303.634 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(115, 102, 146)` looks like.

```
.text, #text, p{  
    color:rgb(115, 102, 146)  
}
```

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(115, 102, 146) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(115, 102, 146) }
```

## Border

The CSS property to change the border of an element to CIELCh 46, 26.709, 303.634 is called "border". The border property can be set on classes, ids or directly on the HTML element.

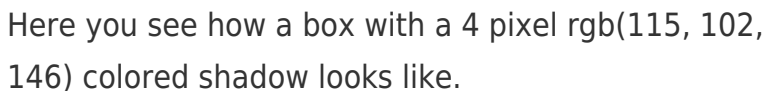
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(115, 102, 146) }
```

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

```
.border{ border-color:rgb(115, 102, 146) }
```

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



Here you see how a box with a 4 pixel `rgb(115, 102, 146)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(115, 102, 146); -webkit-box-  
shadow:4px 4px 4px 4px rgb(115, 102, 146);  
box-shadow:4px 4px 4px 4px rgb(115, 102,  
146) }
```

# Background

The CSS property to change the background color of an element to CIELCh 46, 26.709, 303.634 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(115, 102, 146) }
```

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

```
.background{ background-color: rgb(115,  
102, 146) }
```

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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