

# Converting Colors

CIELCh(46, 42.589, 289.563)

Have a look what the booklet for  
CIELCh(46, 42.589, 289.563)  
contains.

<b>CIELCh(46, 42.167, 289.354)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	11
<b><i>Previews</i></b> .....	20
<b><i>Color Blindness Simulation</i></b> .....	23
<b><i>CSS Examples</i></b> .....	26

# Color

**CIELCh(46, 42.167, 289.354)**

# Conversions

## Conversions Part 1

Format	Color
Hex	5969B0
RGB	89, 105, 176
RGB Percent	35%, 41%, 69%
CMY	0.6523, 0.5894, 0.3111
CMYK	0.50, 0.40, 0.00, 0.31
HSL	229°, 35%, 52%
HSV	229°, 50%, 69%
XYZ	16.9101, 15.2687, 42.9525
YIQ	108.3100, -32.3270, 18.6890

# Conversions

## Conversions Part 2

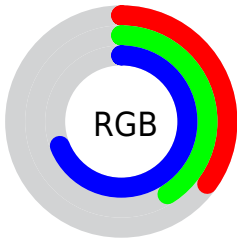
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	89, 103, 176
Decimal	5859760
CIE Lab	46.00, 13.97, -39.78
CIE LCh	46, 42.167, 289.354
Yxy	15.2687, 0.2251, 0.2032
Android (android.graphics.Color)	4284049840 (0xFF5969B0)
YUV	108.3100, 33.3712, -16.9349
Hunter-Lab	39.0751, 8.8660, -37.8207

# Details

The CIELCh color `46, 42.167, 289.354` is a dark color, and the websafe version is hex `666699`. A complement of this color would be `66, 39.068, 95.600`, and the grayscale version is `46, 0.006, 296.813`.

A 20% lighter version of the original color is `66, 42.127, 289.491`, and `26, 42.437, 289.663` is the 20% darker color. If you saturate the color by 10%, you get `41, 51.576, 291.793`, and if you desaturate by 10%, it is `51, 33.084, 287.220`.

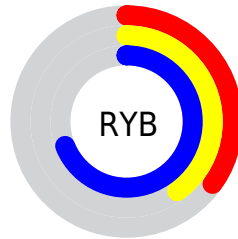
# Distribution



Red (35%)

Green (41%)

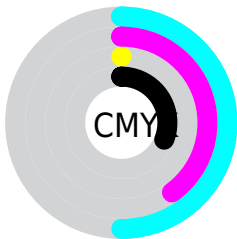
Blue (69%)



Red (35%)

Yellow (40%)

Blue (69%)

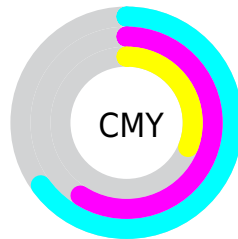


Cyan (50%)

Magenta (40%)

Yellow (0%)

Black (31%)



Cyan (65%)

Magenta (59%)


Yellow (31%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 46, 42.167, 289.354 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, 42.167, 289.354 by changing the saturation by 10% instead.





 46, 42.167,  
289.354


 46, 42.167,  
289.354


 100, 42.167,  
289.354


 36, 42.167,  
289.354

 66, 42.167,  
289.354


 26, 42.167,  
289.354

 76, 42.167,  
289.354

 16, 42.167,  
289.354

 86, 42.167,  
289.354

 6, 42.167, 289.354

 96, 42.167,  
289.354

 0, 42.167, 289.354

 46, 42.167,

 46, 42.167,

289.354

289.354

■ 41, 51.576,  
291.793

■ 51, 33.084,  
287.220

■ 36, 61.283,  
294.503

■ 56, 24.315,  
285.379

■ 32, 71.134,  
297.382

■ 62, 15.832,  
283.802

■ 28, 80.721,  
300.239

■ 67, 7.612, 282.459

■ 24, 89.321,  
302.744

■ 72, 0.366, 100.911

■ 77, 8.116, 100.262

■ 24, 89.693,  
302.844

■ 82, 15.653, 99.403

■ 87, 22.986, 98.649

■ 92, 30.126, 97.988

# Harmonies

# Complementary

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



46, 42.167, 289.354



66, 39.068, 95.600

# Rectangle

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



46, 42.167, 289.354



46, 42.167, 339.354



46, 42.167, 109.354



46, 42.167, 159.354

# Sweetspot

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



46, 42.166, 289.355



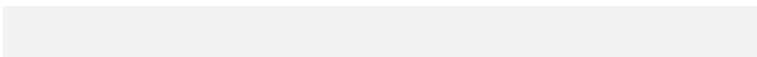
81, 15.021, 283.203



66, 30.563, 178.400



42, 10.269, 283.487



96, 0.011, 296.813



48, 0.006, 296.813



# Same Dimension

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



46, 42.166, 289.355



53, 63.593, 291.927



44, 52.605, 305.498



34, 4.476, 282.430



20, 79.193, 302.531



1, 9.697, 283.234





# Inverse Universe

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



49, 37.766, 11.164



58, 56.214, 13.742



68, 47.240, 119.041



34, 3.926, 5.236



31, 62.807, 29.664

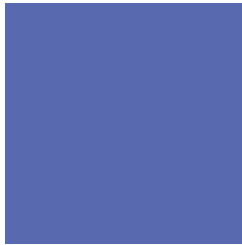


2, 8.008, 7.110



# Previews

## White Background



This preview shows how the CIE LCh color 46, 42.167, 289.354 looks on a white background.

## Color Contrast Check

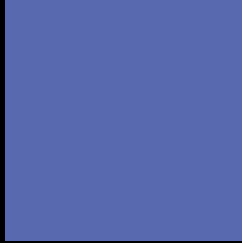
Large Text (above 18pt) WCAG AA ✓ Pass

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, 42.167, 289.354 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

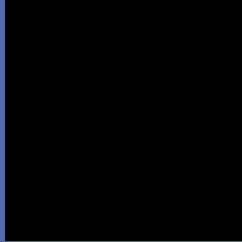
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**CIELCh 46, 42.167, 289.354**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 46, 42.167, 289.354.

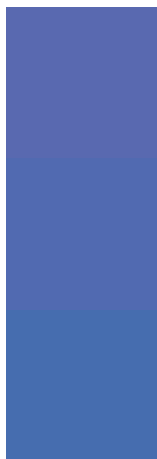


This preview shows how white text looks on a background with the CIELCh color 46, 42.167, 289.354.

# 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, 42.167, 289.354

### Protanopia

46, 42.356, 286.180

### Deuteranopia

46, 39.930, 279.956



**Tritanopia**  
46, 15.678, 218.012



# Trichromacy



**Original Color**  
46, 42.167, 289.354

**Protanomaly**  
46, 42.263, 287.186

**Deuteranomaly**  
46, 40.772, 283.659

**Tritanomaly**  
46, 20.891, 261.392

# Monochromacy



**Original Color**  
46, 42.167, 289.354

**Achromatopsia**  
46, 0.006, 296.813

**Achromatomaly**  
46, 15.580, 284.219

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 46, 42.167, 289.354 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(89, 105, 176)` looks like.

```
.text, #text, p{  
    color:rgb(89, 105, 176)  
}
```

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(89, 105, 176) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(89, 105, 176) }
```

## Border

The CSS property to change the border of an element to CIELCh 46, 42.167, 289.354 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(89, 105, 176) }
```

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

```
.border{ border-color:rgb(89, 105, 176) }
```

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

Here you see how a box with a 4 pixel `rgb(89, 105, 176)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(89, 105, 176); -webkit-box-  
shadow:4px 4px 4px 4px rgb(89, 105, 176);  
box-shadow:4px 4px 4px 4px rgb(89, 105,  
176) }
```

# Background

The CSS property to change the background color of an element to CIELCh 46, 42.167, 289.354 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(89, 105, 176) }
```

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

```
.background{ background-color: rgb(89, 105,  
176) }
```

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