

# Converting Colors

CIELCh(46, 33.286, 295.103)

Have a look what the booklet for  
CIELCh(46, 33.286, 295.103)  
contains.

<b>CIELCh(46, 33.342, 295.152)</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, 33.342, 295.152)**

# Conversions

## Conversions Part 1

Format	Color
Hex	68679F
RGB	104, 103, 159
RGB Percent	41%, 40%, 62%
CMY	0.5905, 0.5945, 0.3747
CMYK	0.35, 0.35, 0.00, 0.37
HSL	241°, 23%, 52%
HSV	241°, 35%, 63%
XYZ	16.9457, 15.2687, 35.0563
YIQ	109.6830, -17.3800, 17.6280

# Conversions

## Conversions Part 2

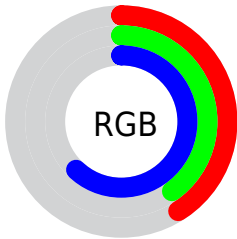
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	104, 103, 159
Decimal	6842271
CIE <sub>Lab</sub>	46.00, 14.17, -30.18
CIE <sub>LCh</sub>	46, 33.342, 295.152
Yxy	15.2687, 0.2519, 0.2270
Android (android.graphics.Color)	4285032351 (0xFF68679F)
YUV	109.6830, 24.3133, -4.9840
Hunter-Lab	39.0751, 9.0283, -25.8394

# Details

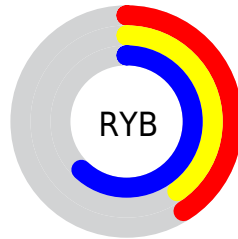
The CIELCh color `46, 33.342, 295.152` is a dark color, and the websafe version is hex `666699`. A complement of this color would be `64, 30.595, 107.673`, and the grayscale version is `46, 0.006, 296.813`.

A 20% lighter version of the original color is `66, 33.362, 295.235`, and `26, 33.363, 295.430` is the 20% darker color. If you saturate the color by 10%, you get `40, 43.731, 296.837`, and if you desaturate by 10%, it is `52, 23.362, 293.694`.

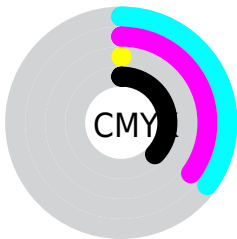
# Distribution



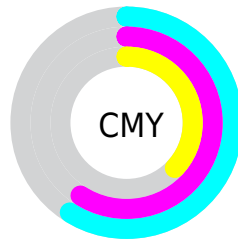
- Red (41%)
- Green (40%)
- Blue (62%)



- Red (41%)
- Yellow (40%)
- Blue (62%)



- Cyan (35%)
- Magenta (35%)
- Yellow (0%)
- Black (37%)




- Cyan (59%)
- Magenta (59%)
- Yellow (37%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 46, 33.342, 295.152 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, 33.342, 295.152 by changing the saturation by 10% instead.





 46, 33.342,  
295.152


 46, 33.342,  
295.152


 100, 33.342,  
295.152


 36, 33.342,  
295.152

 66, 33.342,  
295.152


 26, 33.342,  
295.152

 76, 33.342,  
295.152

 16, 33.342,  
295.152

 86, 33.342,  
295.152

 6, 33.342, 295.152

 96, 33.342,  
295.152

 0, 33.342, 295.152

 46, 33.342,

 46, 33.342,

295.152

40, 43.731,  
296.837

35, 54.481,  
298.738

30, 65.392,  
300.791

25, 75.954,  
302.842

22, 85.136,  
304.625

19, 91.531,  
305.840

18, 94.100,  
306.351

295.152

52, 23.362,  
293.694

57, 13.789,  
292.446

63, 4.597, 291.389


68, 4.242, 110.462

74, 12.753,  
109.696

79, 20.960,  
109.036

85, 28.884,  
108.468

90, 36.545,  
107.979

 95, 43.959,  
107.554

# Harmonies

# Complementary

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



46, 33.342, 295.152



64, 30.595, 107.673

# Rectangle

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



46, 33.342, 295.152



46, 33.342, 345.152



46, 33.342, 115.152



46, 33.342, 165.152

# Sweetspot

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



46, 33.341, 295.152



75, 12.272, 292.008



62, 18.859, 199.374



39, 8.332, 292.146



92, 0.011, 296.813



44, 0.006, 296.813





# Same Dimension

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



46, 33.341, 295.152



54, 49.989, 296.420



49, 34.626, 311.313



30, 5.055, 291.800



15, 86.792, 306.360



0, 6.507, 290.858



# Inverse Universe

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



51, 37.735, 326.804



63, 55.217, 327.187



62, 33.041, 128.049



31, 6.029, 325.405



33, 74.007, 328.953

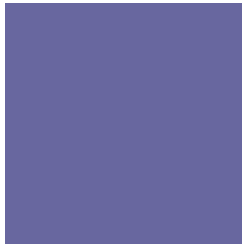


1, 7.823, 325.046



# Previews

## White Background



This preview shows how the CIELCh color 46, 33.342, 295.152 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, 33.342, 295.152 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✗ Fail

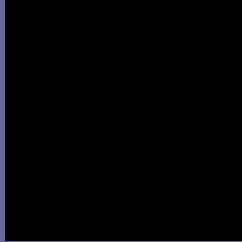
Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail

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

# CIELCh 46, 33.342, 295.152

## Background



This preview shows how black text looks on a background with the CIELCh color 46, 33.342, 295.152.

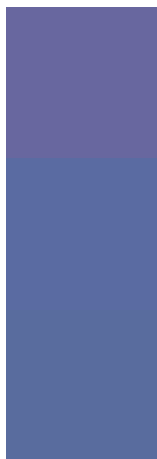


This preview shows how white text looks on a background with the CIELCh color 46, 33.342, 295.152.

# 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, 33.342, 295.152

### Protanopia

46, 32.862, 285.247

### Deuteranopia

46, 30.032, 282.589





**Tritanopia**  
46, 7.710, 243.082

# Trichromacy



**Original Color**  
46, 33.342, 295.152

**Protanomaly**  
46, 32.726, 288.384

**Deuteranomaly**  
46, 31.563, 287.960

**Tritanomaly**  
46, 15.712, 280.322

# Monochromacy



**Original Color**  
46, 33.342, 295.152

**Achromatopsia**  
46, 0.006, 296.813

**Achromatomaly**  
46, 11.889, 291.802

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 46, 33.342, 295.152 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(104, 103, 159)` looks like.

```
.text, #text, p{  
    color:rgb(104, 103, 159)  
}
```

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(104, 103, 159) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(104, 103, 159) }
```

## Border

The CSS property to change the border of an element to CIELCh 46, 33.342, 295.152 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(104, 103, 159) }
```

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

```
.border{ border-color:rgb(104, 103, 159) }
```

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

Here you see how a box with a 4 pixel `rgb(104, 103, 159)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(104, 103, 159); -webkit-box-  
shadow:4px 4px 4px 4px rgb(104, 103, 159);  
box-shadow:4px 4px 4px 4px rgb(104, 103,  
159) }
```

# Background

The CSS property to change the background color of an element to CIELCh 46, 33.342, 295.152 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(104, 103, 159) }
```

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

```
.background{ background-color: rgb(104,  
103, 159) }
```

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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