

# Converting Colors

CIELCh(40, 9.929, 210.444)

Have a look what the booklet for  
CIELCh(40, 9.929, 210.444) contains.

<b>CIELCh(40, 10.052, 208.785)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	12
<i><b>Previews</b></i> .....	21
<i><b>Color Blindness Simulation</b></i> .....	24
<i><b>CSS Examples</b></i> .....	27

# Color

**CIELCh(40, 10.052, 208.785)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	496366
RGB	73, 99, 102
RGB Percent	29%, 39%, 40%
CMY	0.7145, 0.6125, 0.6008
CMYK	0.28, 0.03, 0.00, 0.60
HSL	186°, 17%, 34%
HSV	186°, 28%, 40%
XYZ	9.5650, 11.2510, 14.1867
YIQ	91.5680, -16.4590, -4.5790

# Conversions

## Conversions Part 2

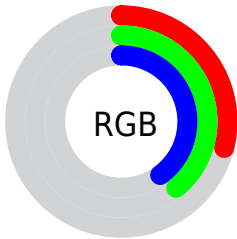
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	73, 87, 102
Decimal	4809574
CIE <sub>Lab</sub>	40.00, -8.81, -4.84
CIE <sub>LCh</sub>	40, 10.052, 208.785
Yxy	11.2510, 0.2733, 0.3214
Android (android.graphics.Color)	4282999654 (0xFF496366)
YUV	91.5680, 5.1430, -16.2841
Hunter-Lab	33.5425, -7.7980, -1.5968

# Details

The CIELCh color **40, 10.052, 208.785** is a dark color, and the websafe version is hex **336666**. A complement of this color would be **35, 12.120, 29.925**, and the grayscale version is **39, 0.006, 296.813**.

A 20% lighter version of the original color is **60, 9.952, 208.403**, and **20, 9.986, 209.555** is the 20% darker color. If you saturate the color by 10%, you get **39, 13.073, 208.899**, and if you desaturate by 10%, it is **41, 6.734, 208.786**.

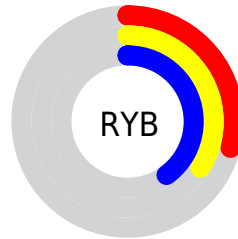
# Distribution



Red (29%)

Green (39%)

Blue (40%)



Red (29%)

Yellow (34%)

Blue (40%)

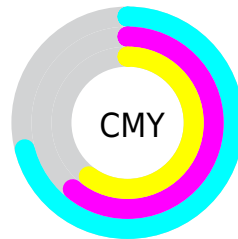


Cyan (28%)

Magenta (3%)

Yellow (0%)

Black (60%)



Cyan (71%)

Magenta (61%)


Yellow (60%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 40, 10.052, 208.785 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 40, 10.052, 208.785 by changing the saturation by 10% instead.





 40, 10.052,  
208.785


 40, 10.052,  
208.785


 100, 10.052,  
208.785


 30, 10.052,  
208.785

 60, 10.052,  
208.785


 20, 10.052,  
208.785


 70, 10.052,  
208.785


 10, 10.052,  
208.785

 80, 10.052,  
208.785

 0, 10.052, 208.785

 90, 10.052,  
208.785

 40, 10.052,

 40, 10.052,

208.785

■ 39, 13.073,  
208.899

■ 38, 15.742,  
209.162

■ 37, 18.009,  
209.596

■ 37, 19.833,  
210.233

■ 36, 21.190,  
211.106

■ 36, 22.080,  
212.248

■ 35, 22.689,  
213.555

■ 35, 22.784,  
213.747

208.785

■ 41, 6.734, 208.786

■ 42, 3.173, 208.925

■ 43, 0.582, 28.390

■ 45, 4.485, 29.114

■ 46, 8.498, 29.410

■ 47, 12.588, 29.717

■ 49, 16.730, 30.041

■ 50, 20.901, 30.379

■ 51, 25.085, 30.727



# Harmonies

# Complementary

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



40, 10.052, 208.785



35, 12.120, 29.925

# Rectangle

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



40, 10.052, 208.785



40, 10.052, 258.785



40, 10.052, 28.785



40, 10.052, 78.785

# Sweetspot

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



40, 10.052, 208.780



54, 4.177, 208.907



40, 20.076, 145.398



27, 2.871, 208.885



78, 0.009, 296.813



28, 0.004, 296.813





# Same Dimension

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



40, 10.052, 208.780



51, 14.556, 208.842



36, 11.544, 269.542



21, 2.102, 208.915



39, 24.773, 214.019



80, 42.772, 215.236



# Inverse Universe

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



35, 20.056, 328.928



43, 29.678, 329.289



39, 11.895, 81.939



20, 3.940, 327.830



26, 59.305, 332.618



56, 102.364, 332.917



# Previews

## White Background



This preview shows how the CIE LCh color 40, 10.052, 208.785 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 CIELCh color 40, 10.052, 208.785 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

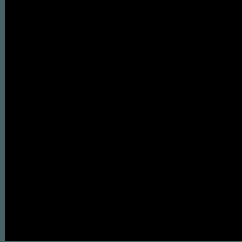
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

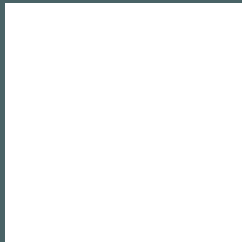
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**CIELCh 40, 10.052, 208.785**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 40, 10.052, 208.785.



This preview shows how white text looks on a background with the CIELCh color 40, 10.052, 208.785.

# 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**  
40, 10.052, 208.785

**Protanopia**  
40, 3.695, 297.122

**Deuteranopia**  
40, 8.065, 315.111





**Tritanopia**  
40, 10.114, 227.463

# Trichromacy



**Original Color**  
40, 10.052, 208.785

**Protanomaly**  
40, 4.668, 240.039

**Deuteranomaly**  
40, 5.801, 270.928

**Tritanomaly**  
40, 9.711, 220.666

# Monochromacy



**Original Color**  
40, 10.052, 208.785

**Achromatopsia**  
39, 0.005, 296.813

**Achromatomaly**  
39, 4.106, 207.555

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 40, 10.052, 208.785 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(73, 99, 102)` looks like.

```
.text, #text, p{  
    color:rgb(73, 99, 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(73, 99, 102) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(73, 99, 102) }
```

## Border

The CSS property to change the border of an element to CIELCh 40, 10.052, 208.785 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(73, 99, 102) }
```

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

```
.border{ border-color:rgb(73, 99, 102) }
```

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

Here you see how a box with a 4 pixel `rgb(73, 99, 102)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(73, 99, 102); -webkit-box-  
shadow:4px 4px 4px 4px rgb(73, 99, 102);  
box-shadow:4px 4px 4px 4px rgb(73, 99,  
102) }
```

# Background

The CSS property to change the background color of an element to CIELCh 40, 10.052, 208.785 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(73, 99, 102) }
```

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

```
.background{ background-color: rgb(73, 99,  
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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