

Converting Colors

CIELCh(40, 37.895, 276.117)

Have a look what the booklet for
CIELCh(40, 37.895, 276.117)
contains.

CIELCh(40, 37.779, 275.878)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	21
<i>Color Blindness Simulation</i>	24
<i>CSS Examples</i>	27

Color

CIELCh(40, 37.779, 275.878)

Conversions

Conversions Part 1

Format	Color
Hex	2D609C
RGB	45, 96, 156
RGB Percent	18%, 38%, 61%
CMY	0.8216, 0.6250, 0.3899
CMYK	0.71, 0.39, 0.00, 0.39
HSL	213°, 55%, 39%
HSV	213°, 71%, 61%
XYZ	11.2162, 11.2510, 32.8449
YIQ	87.5910, -49.6560, 7.8480

Conversions

Conversions Part 2

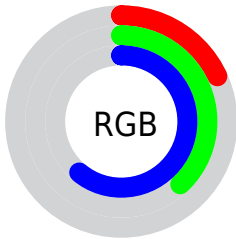
Format	Color
R_{YB}	45, 80, 156
Decimal	2973852
CIE _{Lab}	40.00, 3.87, -37.58
CIE _{LCh}	40, 37.779, 275.878
Yxy	11.2510, 0.2028, 0.2034
Android (android.graphics.Color)	4281163932 (0xFF2D609C)
YUV	87.5910, 33.7256, -37.3523
Hunter-Lab	33.5425, 0.9890, -34.5773

Details

The CIELCh color $40, 37.779, 275.878$ is a dark color, and the websafe version is hex 336699 . A complement of this color would be $49, 43.053, 70.721$, and the grayscale version is $37, 0.005, 296.813$.

A 20% lighter version of the original color is $60, 37.956, 275.720$, and $21, 36.784, 283.299$ is the 20% darker color. If you saturate the color by 10%, you get $37, 43.116, 279.672$, and if you desaturate by 10%, it is $43, 32.497, 272.497$.

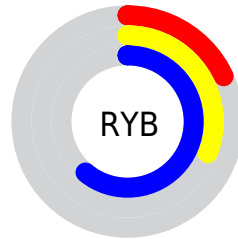
Distribution



Red (18%)

Green (38%)

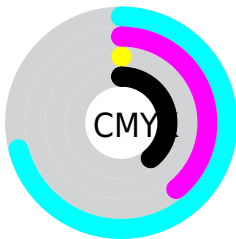
Blue (61%)



Red (18%)

Yellow (31%)

Blue (61%)

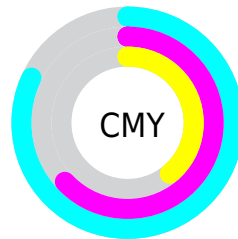


Cyan (71%)

Magenta (39%)

Yellow (0%)

Black (39%)



Cyan (82%)

Magenta (63%)

Yellow (39%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 40, 37.779, 275.878 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, 37.779, 275.878 by changing the saturation by 10% instead.

■ 40, 37.779,
275.878

■ 40, 37.779,
275.878

■ 100, 37.779,
275.878

■ 30, 37.779,
275.878

■ 60, 37.779,
275.878

■ 20, 37.779,
275.878

■ 70, 37.779,
275.878

■ 10, 37.779,
275.878

■ 80, 37.779,
275.878

■ 0, 37.779, 275.878

■ 90, 37.779,
275.878

■ 40, 37.779,

■ 40, 37.779,

275.878

■ 37, 43.116,
279.672

■ 34, 48.568,
283.778

■ 32, 53.763,
287.533

275.878

■ 43, 32.497,
272.497

■ 47, 27.222,
269.555

■ 50, 21.923,
267.034

■ 53, 16.588,
264.890

■ 57, 11.219,
263.076

■ 60, 5.825, 261.549

■ 64, 0.420, 260.836

■ 67, 4.982, 78.989

■ 71, 10.368, 78.038

Harmonies

Complementary

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



40, 37.779, 275.878



49, 43.053, 70.721

Rectangle

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



40, 37.779, 275.878



40, 37.779, 325.878



40, 37.779, 95.878



40, 37.779, 145.878

Sweetspot

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



40, 37.778, 275.879



72, 14.002, 263.182



57, 46.785, 157.080



37, 9.548, 263.622



91, 0.011, 296.813



43, 0.006, 296.813

Same Dimension

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



40, 37.778, 275.879



46, 56.069, 282.052



27, 69.945, 302.159



32, 3.101, 261.344



29, 50.112, 287.189



2, 4.147, 262.418

Inverse Universe

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



37, 49.727, 355.725



45, 67.565, 0.371



62, 56.257, 105.675



31, 4.176, 346.860



30, 54.842, 5.214



1, 5.314, 347.486

Previews

White Background



This preview shows how the CIE LCh color 40, 37.779, 275.878 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, 37.779, 275.878 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, 37.779, 275.878

Background



This preview shows how black text looks on a background with the CIELCh color 40, 37.779, 275.878.



This preview shows how white text looks on a background with the CIELCh color 40, 37.779, 275.878.

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, 37.826, 275.628

Protanopia

40, 36.764, 285.449

Deuteranopia

40, 38.574, 279.476



Tritanopia
40, 25.001, 209.530

Trichromacy



Original Color
40, 37.826, 275.628

Protanomaly
40, 37.103, 281.644

Deuteranomaly
40, 38.144, 277.800

Tritanomaly
40, 25.532, 238.269

Monochromacy



Original Color
40, 37.826, 275.628

Achromatopsia
37, 0.005, 296.813

Achromatomaly
38, 14.789, 266.217

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 40, 37.779, 275.878 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(45, 96, 156)` looks like.

```
.text, #text, p{  
    color:rgb(45, 96, 156)  
}
```

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(45, 96, 156) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(45, 96, 156) }
```

Border

The CSS property to change the border of an element to CIELCh 40, 37.779, 275.878 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(45, 96, 156) }
```

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

```
.border{ border-color:rgb(45, 96, 156) }
```

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

Here you see how a box with a 4 pixel rgb(45, 96, 156) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(45, 96, 156); -webkit-box-  
shadow:4px 4px 4px 4px rgb(45, 96, 156);  
box-shadow:4px 4px 4px 4px rgb(45, 96,  
156) }
```

Background

The CSS property to change the background color of an element to CIELCh 40, 37.779, 275.878 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(45, 96, 156) }
```

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

```
.background{ background-color: rgb(45, 96,  
156) }
```

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