

Converting Colors

CIELCh(40, 48.245, 290.306)

Have a look what the booklet for
CIELCh(40, 48.245, 290.306)
contains.

CIELCh(40, 48.643, 290.584)	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, 48.643, 290.584)

Conversions

Conversions Part 1

Format	Color
Hex	4459A9
RGB	68, 89, 169
RGB Percent	27%, 35%, 66%
CMY	0.7331, 0.6508, 0.3370
CMYK	0.60, 0.47, 0.00, 0.34
HSL	228°, 43%, 46%
HSV	228°, 60%, 66%
XYZ	13.1315, 11.2510, 39.0439
YIQ	91.8410, -38.1960, 20.4280

Conversions

Conversions Part 2

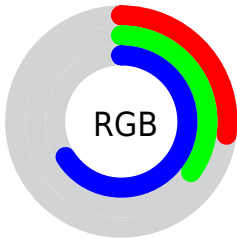
Format	Color
RYB	68, 85, 169
Decimal	4479401
CIELab	40.00, 17.10, -45.54
CIElCh	40, 48.643, 290.584
Yxy	11.2510, 0.2070, 0.1774
Android (android.graphics.Color)	4282669481 (0xFF4459A9)
YUV	91.8410, 38.0394, -20.9086
Hunter-Lab	33.5425, 11.1816, -45.5347

Details

The CIELCh color `40, 48.643, 290.584` is a dark color, and the websafe version is hex `3366CC`. A complement of this color would be `62, 44.387, 92.803`, and the grayscale version is `39, 0.006, 296.813`.

A 20% lighter version of the original color is `60, 48.539, 290.303`, and `20, 48.479, 292.118` is the 20% darker color. If you saturate the color by 10%, you get `35, 57.738, 293.349`, and if you desaturate by 10%, it is `45, 39.831, 288.107`.

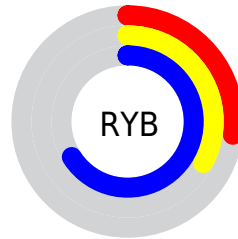
Distribution



Red (27%)

Green (35%)

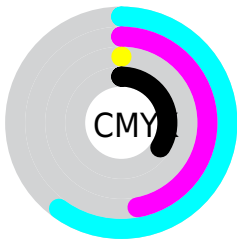
Blue (66%)



Red (27%)

Yellow (33%)

Blue (66%)

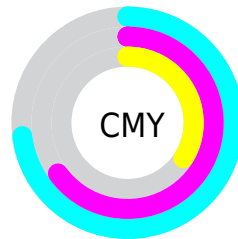


Cyan (60%)

Magenta (47%)

Yellow (0%)

Black (34%)



Cyan (73%)

Magenta (65%)


Yellow (34%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 40, 48.643, 290.584 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, 48.643, 290.584 by changing the saturation by 10% instead.

 40, 48.643,
290.584

 40, 48.643,
290.584


 100, 48.643,
290.584

 30, 48.643,
290.584

 60, 48.643,
290.584

 20, 48.643,
290.584

 70, 48.643,
290.584

 10, 48.643,
290.584

 80, 48.643,
290.584

 0, 48.643, 290.584

 90, 48.643,
290.584

 40, 48.643,

 40, 48.643,

290.584

■ 35, 57.738,
293.349

■ 31, 67.011,
296.306

■ 27, 76.153,
299.280

■ 24, 84.589,
301.944

■ 24, 84.795,
302.003

290.584

■ 45, 39.831,
288.107

■ 50, 31.318,
285.940

■ 55, 23.082,
284.071

■ 60, 15.100,
282.469

■ 64, 7.349, 281.103

■ 69, 0.187, 99.137

■ 74, 7.521, 98.861

■ 79, 14.664, 97.985

■ 84, 21.625, 97.214

Harmonies

Complementary

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



40, 48.643, 290.584



62, 44.387, 92.803

Rectangle

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



40, 48.643, 290.584



40, 48.643, 340.584



40, 48.643, 110.584



40, 48.643, 160.584

Sweetspot

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



40, 48.643, 290.585



77, 16.983, 282.262



63, 34.786, 175.778



39, 11.830, 282.676



94, 0.011, 296.813



46, 0.006, 296.813

Same Dimension

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



40, 48.643, 290.585



44, 74.082, 294.383



37, 62.108, 305.981



33, 4.253, 281.046



20, 76.108, 301.701



1, 7.921, 281.646

Inverse Universe

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



43, 44.310, 11.798



51, 65.113, 16.098



65, 54.039, 117.926



33, 3.861, 3.446



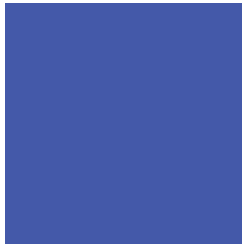
30, 61.063, 27.796



1, 6.813, 4.875

Previews

White Background



This preview shows how the CIE LCh color 40, 48.643, 290.584 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, 48.643, 290.584 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

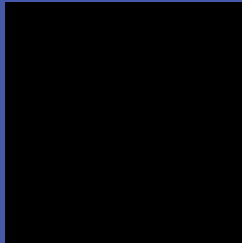
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 40, 48.643, 290.584

Background



This preview shows how black text looks on a background with the CIELCh color 40, 48.643, 290.584.



This preview shows how white text looks on a background with the CIELCh color 40, 48.643, 290.584.

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, 48.643, 290.584

Protanopia

40, 48.885, 286.607

Deuteranopia

40, 45.594, 278.205



Tritanopia
40, 19.847, 211.605

Trichromacy



Original Color
40, 48.643, 290.584

Protanomaly
40, 48.805, 288.032

Deuteranomaly
40, 46.349, 281.814

Tritanomaly
40, 24.294, 257.891

Monochromacy



Original Color
40, 48.643, 290.584

Achromatopsia
39, 0.006, 296.813

Achromatomaly
39, 17.902, 283.605

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 40, 48.643, 290.584 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(68, 89, 169)` looks like.

```
.text, #text, p{  
    color:rgb(68, 89, 169)  
}
```

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(68, 89, 169) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(68, 89, 169) }
```

Border

The CSS property to change the border of an element to CIELCh 40, 48.643, 290.584 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(68, 89, 169) }
```

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

```
.border{ border-color:rgb(68, 89, 169) }
```

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

Here you see how a box with a 4 pixel `rgb(68, 89, 169)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(68, 89, 169); -webkit-box-  
shadow:4px 4px 4px 4px rgb(68, 89, 169);  
box-shadow:4px 4px 4px 4px rgb(68, 89,  
169) }
```

Background

The CSS property to change the background color of an element to CIELCh 40, 48.643, 290.584 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(68, 89, 169) }
```

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

```
.background{ background-color: rgb(68, 89,  
169) }
```

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