

Converting Colors

CIELCh(40, 51.700, 287.511)

Have a look what the booklet for
CIELCh(40, 51.700, 287.511)
contains.

CIELCh(40, 51.233, 287.187)	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, 51.233, 287.187)

Conversions

Conversions Part 1

Format	Color
Hex	345BAF
RGB	52, 91, 175
RGB Percent	20%, 36%, 69%
CMY	0.7973, 0.6440, 0.3147
CMYK	0.70, 0.48, 0.00, 0.31
HSL	221°, 54%, 44%
HSV	221°, 70%, 69%
XYZ	12.8346, 11.2510, 41.9210
YIQ	88.9150, -50.2080, 17.8560

Conversions

Conversions Part 2

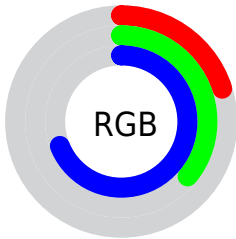
Format	Color
R_{YB}	52, 82, 175
Decimal	3431343
CIE _{Lab}	40.00, 15.14, -48.95
CIE _{LCh}	40, 51.233, 287.187
Yxy	11.2510, 0.1944, 0.1705
Android (android.graphics.Color)	4281621423 (0xFF345BAF)
YUV	88.9150, 42.4399, -32.3745
Hunter-Lab	33.5425, 9.6015, -50.6202




Details

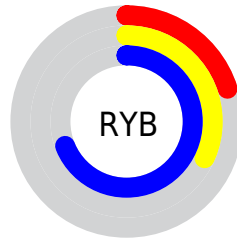
The CIELCh color `40, 51.233, 287.187` is a dark color, and the websafe version is hex `3366CC`. A complement of this color would be `59, 49.385, 82.885`, and the grayscale version is `38, 0.005, 296.813`.




A 20% lighter version of the original color is `60, 50.926, 287.003`, and `21, 50.746, 292.496` is the 20% darker color. If you saturate the color by 10%, you get `36, 59.241, 290.561`, and if you desaturate by 10%, it is `44, 43.443, 284.105`.

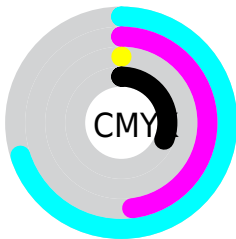
Distribution







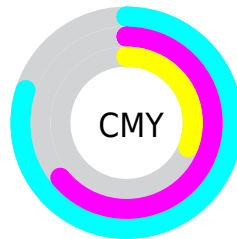
-  Red (20%)
-  Green (36%)
-  Blue (69%)






-  Red (20%)
-  Yellow (32%)
-  Blue (69%)



-  Cyan (70%)
-  Magenta (48%)
-  Yellow (0%)
-  Black (31%)





-  Cyan (80%)
-  Magenta (64%)
-  Yellow (31%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 40, 51.233, 287.187 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, 51.233, 287.187 by changing the saturation by 10% instead.


 40, 51.233,
287.187


 40, 51.233,
287.187


 100, 51.233,
287.187


 30, 51.233,
287.187

 60, 51.233,
287.187


 20, 51.233,
287.187

 70, 51.233,
287.187

 10, 51.233,
287.187

 80, 51.233,
287.187

 0, 51.233, 287.187

 90, 51.233,
287.187

 40, 51.233,

 40, 51.233,

287.187

■ 36, 59.241,
290.561

■ 32, 67.399,
294.082

■ 29, 75.181,
297.305

287.187

■ 44, 43.443,
284.105

■ 49, 35.865,
281.373

■ 53, 28.469,
278.999

■ 58, 21.229,
276.958

■ 62, 14.126,
275.212

■ 67, 7.150, 273.725

■ 71, 0.294, 273.113

■ 76, 6.442, 91.257

■ 80, 13.059, 90.303

Harmonies

Complementary

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



40, 51.233, 287.187



59, 49.385, 82.885

Rectangle

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



40, 51.233, 287.187



40, 51.233, 337.187



40, 51.233, 107.187



40, 51.233, 157.187

Sweetspot

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



40, 51.233, 287.188



78, 17.982, 275.365



64, 44.891, 165.225



40, 12.298, 275.816



96, 0.011, 296.813



48, 0.006, 296.813

Same Dimension

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



40, 51.233, 287.188



44, 78.017, 292.688



32, 75.948, 304.530



34, 3.856, 273.574



25, 66.496, 296.869



2, 8.621, 276.618

Inverse Universe

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



42, 52.807, 6.385



50, 73.912, 12.517



68, 62.174, 112.280



34, 4.158, 355.553



31, 58.416, 18.498



2, 8.374, 358.853

Previews

White Background



This preview shows how the CIE LCh color 40, 51.233, 287.187 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, 51.233, 287.187 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

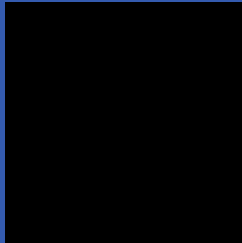
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 40, 51.233, 287.187

Background



This preview shows how black text looks on a background with the CIELCh color 40, 51.233, 287.187.



This preview shows how white text looks on a background with the CIELCh color 40, 51.233, 287.187.

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, 51.233, 287.187

Protanopia

40, 51.282, 286.819

Deuteranopia

40, 45.939, 276.182



Tritanopia
40, 25.044, 208.030

Trichromacy



Original Color
40, 51.233, 287.187

Protanomaly
40, 51.257, 287.001

Deuteranomaly
40, 47.904, 279.602

Tritanomaly
39, 28.048, 250.362

Monochromacy



Original Color
40, 51.233, 287.187

Achromatopsia
38, 0.005, 296.813

Achromatomaly
38, 18.968, 276.933

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 40, 51.233, 287.187 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(52, 91, 175)` looks like.

```
.text, #text, p{  
    color:rgb(52, 91, 175)  
}
```

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(52, 91, 175) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(52, 91, 175) }
```

Border

The CSS property to change the border of an element to CIELCh 40, 51.233, 287.187 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(52, 91, 175) }
```

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

```
.border{ border-color:rgb(52, 91, 175) }
```

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

Here you see how a box with a 4 pixel rgb(52, 91, 175) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(52, 91, 175); -webkit-box-  
shadow:4px 4px 4px 4px rgb(52, 91, 175);  
box-shadow:4px 4px 4px 4px rgb(52, 91,  
175) }
```

Background

The CSS property to change the background color of an element to CIELCh 40, 51.233, 287.187 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(52, 91, 175) }
```

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

```
.background{ background-color: rgb(52, 91,  
175) }
```

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