

Converting Colors

CIELCh(50, 46.410, 273.254)

Have a look what the booklet for
CIELCh(50, 46.410, 273.254)
contains.

CIELCh(50, 46.499, 273.265)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	11
<i>Previews</i>	20
<i>Color Blindness Simulation</i>	23
<i>CSS Examples</i>	26

Color

CIELCh(50, 46.499, 273.265)

Conversions

Conversions Part 1

Format	Color
Hex	287AC6
RGB	40, 122, 198
RGB Percent	16%, 48%, 78%
CMY	0.8437, 0.5219, 0.2239
CMYK	0.80, 0.38, 0.00, 0.22
HSL	209°, 66%, 47%
HSV	209°, 80%, 78%
XYZ	17.9999, 18.4187, 55.9748
YIQ	106.1460, -73.2680, 6.2520

Conversions

Conversions Part 2

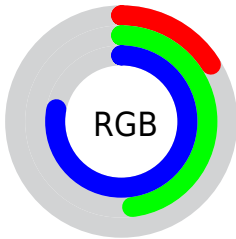
Format	Color
R_{YB}	40, 94, 198
Decimal	2652870
CIE _{Lab}	50.00, 2.65, -46.42
CIE _{LCh}	50, 46.499, 273.265
Yxy	18.4187, 0.1948, 0.1994
Android (android.graphics.Color)	4280842950 (0xFF287AC6)
YUV	106.1460, 45.2840, -58.0100
Hunter-Lab	42.9170, -0.2398, -47.2877

Details

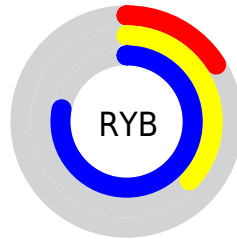
The CIELCh color **50, 46.499, 273.265** is a dark color, and the websafe version is hex **336699**. The color can be described as dark muted azure. A complement of this color would be **57, 59.238, 63.258**, and the grayscale version is **45, 0.006, 296.813**.

A 20% lighter version of the original color is **70, 46.391, 273.248**, and **32, 45.008, 281.673** is the 20% darker color. If you saturate the color by 10%, you get **47, 51.960, 277.721**, and if you desaturate by 10%, it is **53, 41.079, 269.219**.

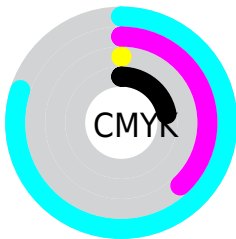
Distribution



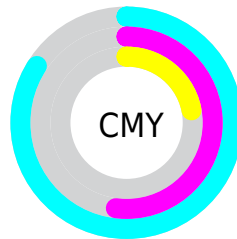
- Red (16%)
- Green (48%)
- Blue (78%)



- Red (16%)
- Yellow (37%)
- Blue (78%)



- Cyan (80%)
- Magenta (38%)
- Yellow (0%)
- Black (22%)



- Cyan (84%)
- Magenta (52%)
- Yellow (22%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 50, 46.499, 273.265 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 50, 46.499, 273.265 by changing the saturation by 10% instead.

■ 50, 46.499,
273.265

■ 50, 46.499,
273.265

■ 100, 46.499,
273.265

■ 40, 46.499,
273.265

■ 70, 46.499,
273.265

■ 30, 46.499,
273.265

■ 80, 46.499,
273.265

■ 20, 46.499,
273.265

■ 90, 46.499,
273.265

■ 10, 46.499,
273.265

■ 0, 46.499, 273.265

■ 50, 46.499,
273.265

■ 50, 46.499,
273.265

■ 47, 51.960,
277.721

■ 53, 41.079,
269.219

■ 44, 57.592,
282.295

■ 57, 35.603,
265.668

■ 44, 57.671,
282.354

■ 61, 30.005,
262.626

■ 64, 24.254,
260.058

■ 68, 18.349,
257.907

■ 72, 12.308,
256.112

■ 76, 6.155, 254.628

■ 80, 0.080, 68.508

■ 84, 6.368, 72.149

Harmonies

Complementary

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



50, 46.499, 273.265



57, 59.238, 63.258

Rectangle

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



50, 46.499, 273.265



50, 46.499, 323.265



50, 46.499, 93.265



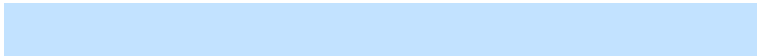
50, 46.499, 143.265

Sweetspot

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



50, 46.498, 273.266



88, 18.203, 256.879



71, 66.042, 151.724



45, 12.467, 257.543



0, 0.000, 0.000



53, 0.007, 296.813

Same Dimension

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



50, 46.498, 273.266



57, 68.012, 281.257



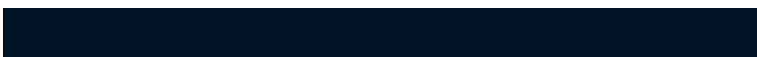
30, 93.254, 302.949



40, 3.555, 254.566



36, 49.308, 281.647



5, 13.710, 268.587

Inverse Universe

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



46, 66.110, 353.668



55, 84.592, 359.463



76, 71.873, 101.586



39, 5.269, 343.352



35, 60.972, 359.771



4, 18.051, 351.807

Previews

White Background



This preview shows how the CIE LCh color 50, 46.499, 273.265 looks on a white 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

Black Background



This preview shows how the CIELCh color 50, 46.499, 273.265 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

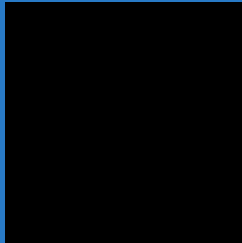
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

CIELCh 50, 46.499, 273.265

Background



This preview shows how black text looks on a background with the CIELCh color 50, 46.499, 273.265.



This preview shows how white text looks on a background with the CIELCh color 50, 46.499, 273.265.

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

50, 46.499, 273.265

Protanopia

50, 44.673, 285.694

Deuteranopia

50, 47.745, 279.491



Tritanopia
50, 29.523, 208.237

Trichromacy



Original Color
50, 46.499, 273.265

Protanomaly
50, 45.324, 280.050

Deuteranomaly
50, 47.508, 277.336

Tritanomaly
50, 30.932, 238.072

Monochromacy



Original Color
50, 46.499, 273.265

Achromatopsia
45, 0.006, 296.813

Achromatomaly
46, 18.564, 259.234

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 50, 46.499, 273.265 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(40, 122, 198)` looks like.

```
.text, #text, p{  
    color:rgb(40, 122, 198)  
}
```

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(40, 122, 198) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(40, 122, 198) }
```

Border

The CSS property to change the border of an element to CIELCh 50, 46.499, 273.265 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(40, 122, 198) }
```

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

```
.border{ border-color:rgb(40, 122, 198) }
```

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

Here you see how a box with a 4 pixel `rgb(40, 122, 198)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(40, 122, 198); -webkit-box-  
shadow:4px 4px 4px 4px rgb(40, 122, 198);  
box-shadow:4px 4px 4px 4px rgb(40, 122,  
198) }
```

Background

The CSS property to change the background color of an element to CIELCh 50, 46.499, 273.265 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(40, 122, 198) }
```

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

```
.background{ background-color: rgb(40, 122,  
198) }
```

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