

Converting Colors

CIELCh(50, 68.479, 287.465)

Have a look what the booklet for
CIELCh(50, 68.479, 287.465)
contains.

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Color

CIELCh(50, 68.450, 287.489)

Conversions

Conversions Part 1

Format	Color
Hex	2D72E7
RGB	45, 114, 231
RGB Percent	18%, 45%, 91%
CMY	0.8221, 0.5523, 0.0933
CMYK	0.80, 0.51, 0.00, 0.09
HSL	218°, 80%, 54%
HSV	218°, 80%, 91%
XYZ	21.5852, 18.4187, 78.1635
YIQ	106.7070, -78.6810, 21.7590

Conversions

Conversions Part 2

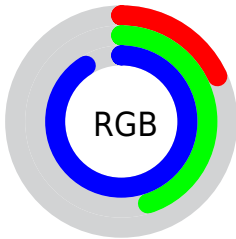
Format	Color
RYB	45, 95, 231
Decimal	2978535
CIELab	50.00, 20.57, -65.29
CIElCh	50, 68.450, 287.489
Yxy	18.4187, 0.1827, 0.1559
Android (android.graphics.Color)	4281168615 (0xFF2D72E7)
YUV	106.7070, 61.2764, -54.1170
Hunter-Lab	42.9170, 14.6725, -77.9414

Details

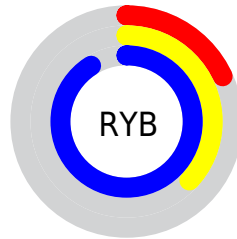
The CIELCh color **50, 68.450, 287.489** is a dark color, and the websafe version is hex **3366CC**. The color can be described as dark washed azure. A complement of this color would be **72, 67.929, 76.385**, and the grayscale version is **45, 0.006, 296.813**.

A 20% lighter version of the original color is **68, 50.283, 281.229**, and **32, 67.056, 293.260** is the 20% darker color. If you saturate the color by 10%, you get **46, 77.748, 291.344**, and if you desaturate by 10%, it is **55, 59.375, 283.830**.

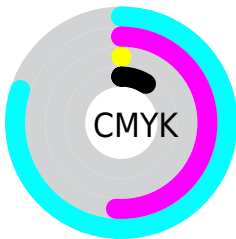
Distribution



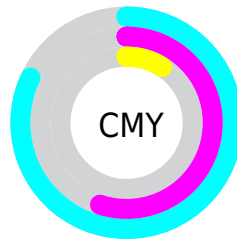
- Red (18%)
- Green (45%)
- Blue (91%)



- Red (18%)
- Yellow (37%)
- Blue (91%)



- Cyan (80%)
- Magenta (51%)
- Yellow (0%)
- Black (9%)



- Cyan (82%)
- Magenta (55%)
- Yellow (9%)

Brightness & Saturation Gradients


These gradients show how the CIELCh color 50, 68.450, 287.489 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, 68.450, 287.489 by changing the saturation by 10% instead.


 50, 68.450,
287.489


 50, 68.450,
287.489

 100, 68.450,
287.489

 40, 68.450,
287.489


 70, 68.450,
287.489

 30, 68.450,
287.489

 80, 68.450,
287.489

 20, 68.450,
287.489

 90, 68.450,
287.489

 10, 68.450,
287.489

 0, 68.450, 287.489

 50, 68.450,
287.489

 50, 68.450,
287.489

■ 46, 77.748,
291.344

■ 55, 59.375,
283.830

■ 42, 86.795,
294.969

■ 60, 50.533,
280.505

■ 65, 41.881,
277.577

■ 70, 33.371,
275.047

■ 75, 24.970,
272.885

■ 81, 16.662,
271.046

■ 86, 8.442, 269.489

■ 92, 0.314, 269.058

■ 97, 7.718, 86.908

Harmonies

Complementary

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



50, 68.450, 287.489



72, 67.929, 76.385

Rectangle

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



50, 68.450, 287.489



50, 68.450, 337.489



50, 68.450, 107.489



50, 68.450, 157.489

Sweetspot

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



50, 68.450, 287.490



86, 21.290, 271.701



82, 64.543, 159.784



44, 14.653, 272.365



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, 68.450, 287.490



48, 89.940, 293.710



36, 108.459, 305.234



45, 4.591, 269.359



32, 70.250, 294.305



6, 24.299, 285.885

Inverse Universe

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



52, 72.439, 6.076



54, 84.509, 13.586



88, 84.092, 109.584



45, 5.396, 352.106



38, 65.301, 14.395



7, 26.798, 4.271

Previews

White Background



This preview shows how the CIE LCh color 50, 68.450, 287.489 looks on a white background.

Color Contrast Check

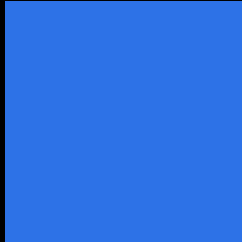
Large Text (above 18pt) WCAG AA ✓ Pass

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, 68.450, 287.489 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

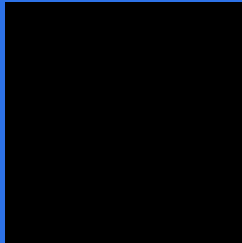
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

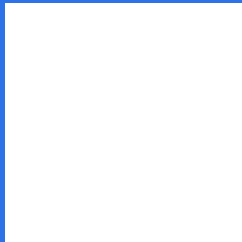
If you want to check with other color combinations, try the [Color Contrast Checker](#).

CIELCh 50, 68.450, 287.489

Background



This preview shows how black text looks on a background with the CIELCh color 50, 68.450, 287.489.



This preview shows how white text looks on a background with the CIELCh color 50, 68.450, 287.489.

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, 68.450, 287.489

Protanopia

50, 68.434, 287.573

Deuteranopia

50, 53.815, 275.969



Tritanopia
50, 29.576, 207.020

Trichromacy



Original Color
50, 68.450, 287.489

Protanomaly
50, 68.434, 287.573

Deuteranomaly
50, 58.923, 280.276

Tritanomaly
49, 34.910, 252.512

Monochromacy



Original Color
50, 68.450, 287.489

Achromatopsia
45, 0.006, 296.813

Achromatomaly
46, 25.831, 275.384

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 50, 68.450, 287.489 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, 114, 231)` looks like.

```
.text, #text, p{  
    color:rgb(45, 114, 231)  
}
```

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, 114, 231) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(45, 114, 231) }
```

Border

The CSS property to change the border of an element to CIELCh 50, 68.450, 287.489 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, 114, 231) }
```

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

```
.border{ border-color:rgb(45, 114, 231) }
```

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

Here you see how a box with a 4 pixel `rgb(45, 114, 231)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(45, 114, 231); -webkit-box-  
shadow:4px 4px 4px 4px rgb(45, 114, 231);  
box-shadow:4px 4px 4px 4px rgb(45, 114,  
231) }
```

Background

The CSS property to change the background color of an element to CIELCh 50, 68.450, 287.489 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(45, 114, 231) }
```

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

```
.background{ background-color: rgb(45, 114,  
231) }
```

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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