

Converting Colors

CIELCh(50, 33.780, 269.556)

Have a look what the booklet for
CIELCh(50, 33.780, 269.556)
contains.

CIELCh(50, 33.721, 269.540)	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, 33.721, 269.540)

Conversions

Conversions Part 1

Format	Color
Hex	487AB0
RGB	72, 122, 176
RGB Percent	28%, 48%, 69%
CMY	0.7178, 0.5217, 0.3100
CMYK	0.59, 0.31, 0.00, 0.31
HSL	211°, 42%, 49%
HSV	211°, 59%, 69%
XYZ	17.4564, 18.4187, 43.6879
YIQ	113.2060, -47.1340, 6.1940

Conversions

Conversions Part 2

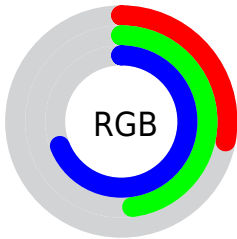
Format	Color
R _Y B	72, 106, 176
Decimal	4750000
CIE Lab	50.00, -0.27, -33.72
CIE LCh	50, 33.721, 269.540
Yxy	18.4187, 0.2194, 0.2315
Android (android.graphics.Color)	4282940080 (0xFF487AB0)
YUV	113.2060, 30.9574, -36.1377
Hunter-Lab	42.9170, -2.4999, -30.3132

Details

The CIELCh color **50, 33.721, 269.540** is a dark color, and the websafe version is hex **336699**. A complement of this color would be **57, 39.068, 69.918**, and the grayscale version is **48, 0.006, 296.813**.

A 20% lighter version of the original color is **70, 33.883, 269.629**, and **30, 33.311, 270.184** is the 20% darker color. If you saturate the color by 10%, you get **47, 39.212, 272.953**, and if you desaturate by 10%, it is **54, 28.186, 266.596**.

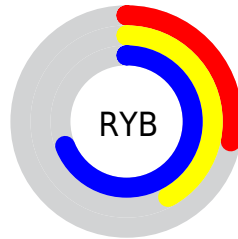
Distribution



Red (28%)

Green (48%)

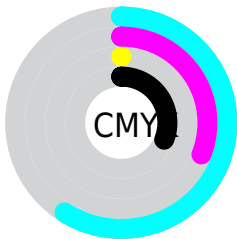
Blue (69%)



Red (28%)

Yellow (42%)

Blue (69%)

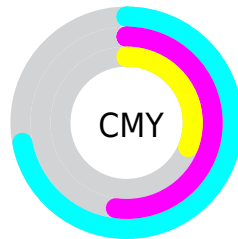


Cyan (59%)

Magenta (31%)

Yellow (0%)

Black (31%)



Cyan (72%)


Magenta (52%)


Yellow (31%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 50, 33.721, 269.540 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, 33.721, 269.540 by changing the saturation by 10% instead.


 50, 33.721,
269.540


 50, 33.721,
269.540


 100, 33.721,
269.540


 40, 33.721,
269.540


 70, 33.721,
269.540

 30, 33.721,
269.540


 80, 33.721,
269.540


 20, 33.721,
269.540

 90, 33.721,
269.540

 10, 33.721,
269.540

 0, 33.721, 269.540

 50, 33.721,
269.540

 50, 33.721,
269.540

47, 39.212,
272.953

54, 28.186,
266.596

43, 44.715,
276.816

57, 22.579,
264.090

40, 50.307,
281.044

61, 16.893,
261.973

37, 56.071,
285.369

65, 11.137,
260.192

37, 56.601,
285.731

68, 5.327, 258.708

72, 0.518, 76.742

76, 6.379, 76.209

80, 12.238, 75.286

84, 18.080, 74.473

Harmonies

Complementary

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



50, 33.721, 269.540



57, 39.068, 69.918

Rectangle

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



50, 33.721, 269.540



50, 33.721, 319.540



50, 33.721, 89.540



50, 33.721, 139.540

Sweetspot

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



50, 33.720, 269.541



83, 13.027, 260.065



65, 45.278, 158.004



42, 9.033, 260.535



96, 0.011, 296.813



48, 0.006, 296.813

Same Dimension

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



50, 33.720, 269.541



59, 49.930, 274.120



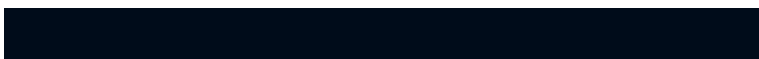
36, 63.773, 299.600



36, 3.352, 258.739



32, 50.489, 285.200



3, 8.950, 267.592

Inverse Universe

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



46, 48.123, 351.642



55, 68.430, 354.402



70, 53.702, 105.566



35, 4.696, 345.432



32, 57.784, 3.116



2, 10.492, 350.931

Previews

White Background



This preview shows how the CIE LCh color 50, 33.721, 269.540 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, 33.721, 269.540 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

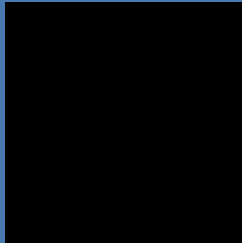
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

CIELCh 50, 33.721, 269.540

Background



This preview shows how black text looks on a background with the CIELCh color 50, 33.721, 269.540.

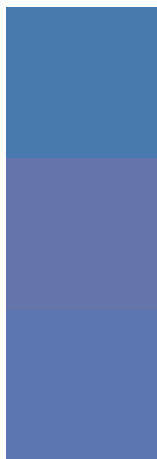


This preview shows how white text looks on a background with the CIELCh color 50, 33.721, 269.540.

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, 33.721, 269.540

Protanopia

50, 32.351, 285.252

Deuteranopia

50, 34.987, 281.621



Tritanopia
50, 23.001, 212.168

Trichromacy



Original Color
50, 33.721, 269.540

Protanomaly
50, 32.344, 278.367

Deuteranomaly
50, 34.824, 277.824

Tritanomaly
50, 23.761, 238.177

Monochromacy



Original Color
50, 33.721, 269.540

Achromatopsia
48, 0.006, 296.813

Achromatomaly
48, 13.249, 262.393

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 50, 33.721, 269.540 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(72, 122, 176)` looks like.

```
.text, #text, p{  
    color:rgb(72, 122, 176)  
}
```

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(72, 122, 176) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(72, 122, 176) }
```

Border

The CSS property to change the border of an element to CIELCh 50, 33.721, 269.540 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(72, 122, 176) }
```

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

```
.border{ border-color:rgb(72, 122, 176) }
```

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

Here you see how a box with a 4 pixel `rgb(72, 122, 176)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(72, 122, 176); -webkit-box-  
shadow:4px 4px 4px 4px rgb(72, 122, 176);  
box-shadow:4px 4px 4px 4px rgb(72, 122,  
176) }
```

Background

The CSS property to change the background color of an element to CIELCh 50, 33.721, 269.540 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(72, 122, 176) }
```

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

```
.background{ background-color: rgb(72, 122,  
176) }
```

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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