

Converting Colors

CIELCh(46, 45.398, 272.131)

Have a look what the booklet for
CIELCh(46, 45.398, 272.131)
contains.

CIELCh(46, 45.575, 272.432)	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(46, 45.575, 272.432)

Conversions

Conversions Part 1

Format	Color
Hex	1170B9
RGB	17, 112, 185
RGB Percent	7%, 44%, 73%
CMY	0.9341, 0.5599, 0.2735
CMYK	0.91, 0.39, 0.00, 0.27
HSL	206°, 83%, 40%
HSV	206°, 91%, 73%
XYZ	14.8298, 15.2687, 48.2043
YIQ	91.9170, -80.0530, 2.5630

Conversions

Conversions Part 2

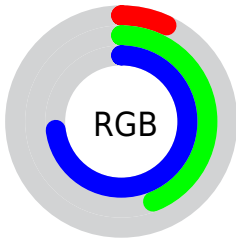
Format	Color
R_{YB}	17, 78, 185
Decimal	1142969
CIE _{Lab}	46.00, 1.93, -45.53
CIE _{LCh}	46, 45.575, 272.432
Yxy	15.2687, 0.1894, 0.1950
Android (android.graphics.Color)	4279333049 (0xFF1170B9)
YUV	91.9170, 45.8899, -65.7022
Hunter-Lab	39.0751, -0.6374, -45.7894

Details

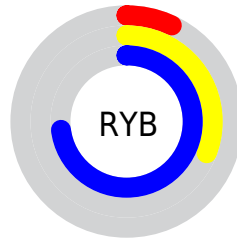
The CIELCh color **46, 45.575, 272.432** is a dark color, and the websafe version is hex **336699**. A complement of this color would be **49, 64.206, 57.363**, and the grayscale version is **39, 0.006, 296.813**.

A 20% lighter version of the original color is **66, 45.908, 272.831**, and **28, 43.146, 283.033** is the 20% darker color. If you saturate the color by 10%, you get **44, 49.624, 276.735**, and if you desaturate by 10%, it is **49, 41.215, 267.828**.

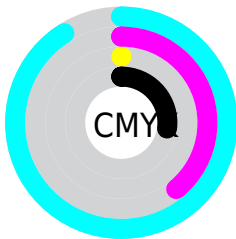
Distribution



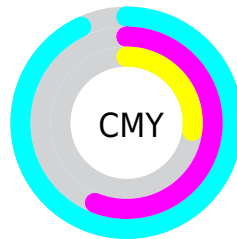
- Red (7%)
- Green (44%)
- Blue (73%)



- Red (7%)
- Yellow (31%)
- Blue (73%)



- Cyan (91%)
- Magenta (39%)
- Yellow (0%)
- Black (27%)





- Cyan (93%)
- Magenta (56%)
- Yellow (27%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 46, 45.575, 272.432 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 46, 45.575, 272.432 by changing the saturation by 10% instead.


 46, 45.575,
272.432


 46, 45.575,
272.432


 100, 45.575,
272.432

 36, 45.575,
272.432

 66, 45.575,
272.432


 26, 45.575,
272.432

 76, 45.575,
272.432

 16, 45.575,
272.432

 86, 45.575,
272.432

 6, 45.575, 272.432

 96, 45.575,
272.432

 0, 45.575, 272.432

 46, 45.575,

 46, 45.575,

272.432

272.432

■ 44, 49.624,
276.735

■ 49, 41.215,
267.828

■ 52, 36.811,
263.696

■ 55, 32.257,
260.111

■ 58, 27.492,
257.072

■ 61, 22.494,
254.533

■ 64, 17.270,
252.428

■ 68, 11.848,
250.689

■ 71, 6.261, 249.266

Harmonies

Complementary

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



46, 45.575, 272.432



49, 64.206, 57.363

Rectangle

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



46, 45.575, 272.432



46, 45.575, 322.432



46, 45.575, 92.432



46, 45.575, 142.432

Sweetspot

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



46, 45.574, 272.433



83, 18.677, 251.782



66, 70.571, 147.968



43, 12.517, 252.405



97, 0.011, 296.813



50, 0.007, 296.813

Same Dimension

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



46, 45.574, 272.433



56, 61.078, 277.594



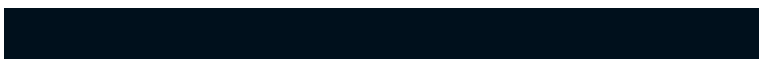
25, 96.217, 304.211



37, 3.226, 249.068



37, 43.103, 276.019



4, 9.602, 261.365

Inverse Universe

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



41, 66.952, 353.006



52, 82.078, 356.484



70, 70.828, 98.939



36, 5.095, 340.915



33, 59.731, 355.336



3, 12.716, 346.951

Previews

White Background



This preview shows how the CIE LCh color 46, 45.575, 272.432 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 CIE LCh color 46, 45.575, 272.432 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

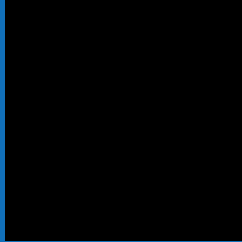
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 46, 45.575, 272.432

Background



This preview shows how black text looks on a background with the CIELCh color 46, 45.575, 272.432.

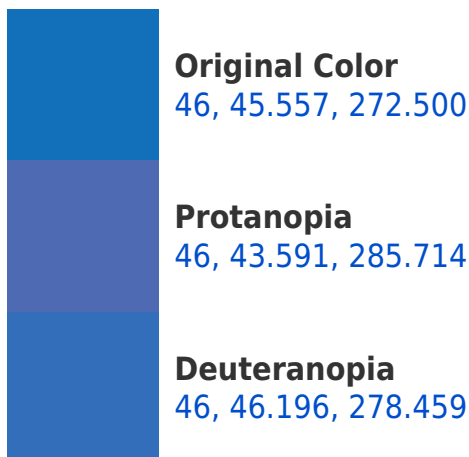


This preview shows how white text looks on a background with the CIELCh color 46, 45.575, 272.432.

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





Tritanopia
46, 27.957, 206.525

Trichromacy



Original Color
46, 45.557, 272.500

Protanomaly
45, 44.374, 279.216

Deuteranomaly
46, 46.059, 275.846

Tritanomaly
46, 29.266, 236.960

Monochromacy



Original Color
46, 45.557, 272.500

Achromatopsia
39, 0.006, 296.813

Achromatomaly
40, 19.396, 257.136

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 46, 45.575, 272.432 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(17, 112, 185)` looks like.

```
.text, #text, p{  
    color:rgb(17, 112, 185)  
}
```

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(17, 112, 185) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(17, 112, 185) }
```

Border

The CSS property to change the border of an element to CIELCh 46, 45.575, 272.432 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(17, 112, 185) }
```

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

```
.border{ border-color:rgb(17, 112, 185) }
```

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

Here you see how a box with a 4 pixel `rgb(17, 112, 185)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(17, 112, 185); -webkit-box-shadow:4px 4px 4px 4px rgb(17, 112, 185); box-shadow:4px 4px 4px 4px rgb(17, 112, 185) }
```

Background

The CSS property to change the background color of an element to CIELCh 46, 45.575, 272.432 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(17, 112, 185) }
```

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

```
.background{ background-color: rgb(17, 112,  
185) }
```

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