

Converting Colors

CIELCh(46, 45.006, 272.411)

Have a look what the booklet for
CIELCh(46, 45.006, 272.411)
contains.

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Color

CIELCh(46, 44.949, 272.422)

Conversions

Conversions Part 1

Format	Color
Hex	1670B8
RGB	22, 112, 184
RGB Percent	9%, 44%, 72%
CMY	0.9119, 0.5601, 0.2777
CMYK	0.88, 0.39, 0.00, 0.28
HSL	207°, 78%, 41%
HSV	207°, 88%, 72%
XYZ	14.8241, 15.2687, 47.6137
YIQ	93.2980, -76.7520, 3.3120

Conversions

Conversions Part 2

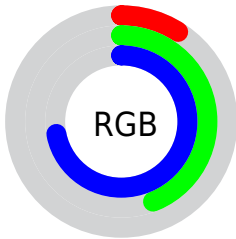
Format	Color
R_{YB}	22, 80, 184
Decimal	1470648
CIE _{Lab}	46.00, 1.90, -44.91
CIE _{LCh}	46, 44.949, 272.422
Yxy	15.2687, 0.1908, 0.1965
Android (android.graphics.Color)	4279660728 (0xFF1670B8)
YUV	93.2980, 44.7161, -62.5283
Hunter-Lab	39.0751, -0.6633, -44.8932

Details

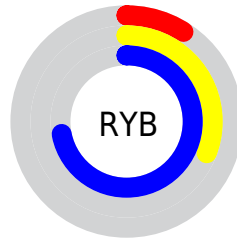
The CIELCh color **46, 44.949, 272.422** is a dark color, and the websafe version is hex **336699**. A complement of this color would be **50, 61.714, 58.928**, and the grayscale version is **40, 0.006, 296.813**.

A 20% lighter version of the original color is **66, 44.870, 272.319**, and **28, 42.556, 282.615** is the 20% darker color. If you saturate the color by 10%, you get **43, 49.557, 277.156**, and if you desaturate by 10%, it is **49, 40.413, 267.979**.

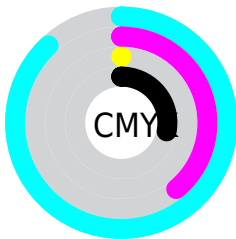
Distribution



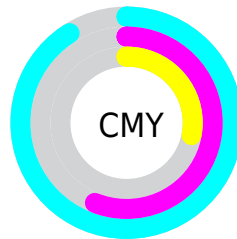
- Red (9%)
- Green (44%)
- Blue (72%)



- Red (9%)
- Yellow (31%)
- Blue (72%)



- Cyan (88%)
- Magenta (39%)
- Yellow (0%)
- Black (28%)



- Cyan (91%)
- Magenta (56%)
- Yellow (28%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 46, 44.949, 272.422 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, 44.949, 272.422 by changing the saturation by 10% instead.

 46, 44.949,
272.422

 46, 44.949,
272.422

 100, 44.949,
272.422

 36, 44.949,
272.422

 66, 44.949,
272.422

 26, 44.949,
272.422

 76, 44.949,
272.422

 16, 44.949,
272.422

 86, 44.949,
272.422

 6, 44.949, 272.422

 96, 44.949,
272.422

 0, 44.949, 272.422

 46, 44.949,

 46, 44.949,

272.422

■ 43, 49.557,
277.156

■ 43, 50.607,
278.147

272.422

■ 49, 40.413,
267.979

■ 52, 35.821,
264.023

■ 55, 31.083,
260.607

■ 58, 26.148,
257.717

■ 62, 21.003,
255.302

■ 65, 15.660,
253.296

■ 69, 10.145,
251.636

■ 72, 4.491, 250.289

Harmonies

Complementary

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



46, 44.949, 272.422



50, 61.714, 58.928

Rectangle

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



46, 44.949, 272.422



46, 44.949, 322.422



46, 44.949, 92.422



46, 44.949, 142.422

Sweetspot

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



46, 44.948, 272.423



83, 18.173, 253.050



66, 68.678, 148.643



43, 12.258, 253.680



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, 44.948, 272.423



55, 62.604, 279.016



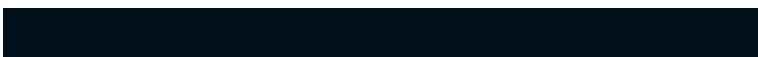
26, 93.071, 303.615



37, 3.249, 250.473



36, 44.148, 277.461



4, 9.707, 262.528

Inverse Universe

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



41, 65.775, 353.027



52, 81.763, 357.580



70, 69.588, 99.135



36, 5.053, 341.508



33, 59.483, 356.385



3, 12.618, 347.637

Previews

White Background



This preview shows how the CIELCh color 46, 44.949, 272.422 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, 44.949, 272.422 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

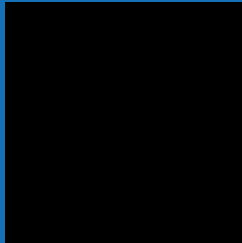
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 46, 44.949, 272.422

Background



This preview shows how black text looks on a background with the CIELCh color 46, 44.949, 272.422.



This preview shows how white text looks on a background with the CIELCh color 46, 44.949, 272.422.

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

46, 44.949, 272.422

Protanopia

46, 42.990, 285.778

Deuteranopia

46, 46.139, 279.149



Tritanopia
46, 27.957, 206.525

Trichromacy



Original Color
46, 44.949, 272.422

Protanomaly
46, 43.750, 279.300

Deuteranomaly
46, 45.971, 276.585

Tritanomaly
46, 29.188, 237.092

Monochromacy



Original Color
46, 44.949, 272.422

Achromatopsia
40, 0.006, 296.813

Achromatomaly
41, 18.754, 256.418

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 46, 44.949, 272.422 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(22, 112, 184)` looks like.

```
.text, #text, p{  
    color:rgb(22, 112, 184)  
}
```

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(22, 112, 184) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(22, 112, 184) }
```

Border

The CSS property to change the border of an element to CIELCh 46, 44.949, 272.422 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(22, 112, 184) }
```

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

```
.border{ border-color:rgb(22, 112, 184) }
```

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

Here you see how a box with a 4 pixel rgb(22, 112, 184) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(22, 112, 184); -webkit-box-  
shadow:4px 4px 4px 4px rgb(22, 112, 184);  
box-shadow:4px 4px 4px 4px rgb(22, 112,  
184) }
```

Background

The CSS property to change the background color of an element to CIELCh 46, 44.949, 272.422 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(22, 112, 184) }
```

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

```
.background{ background-color: rgb(22, 112,  
184) }
```

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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