

Converting Colors

CIELCh(45, 40.441, 282.549)

Have a look what the booklet for
CIELCh(45, 40.441, 282.549)
contains.

CIELCh(45, 40.441, 282.549)	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(45, 40.441, 282.549)

Conversions

Conversions Part 1

Format	Color
Hex	4869AC
RGB	72, 105, 172
RGB Percent	28%, 41%, 67%
CMY	0.7163, 0.5871, 0.3243
CMYK	0.58, 0.39, 0.00, 0.32
HSL	220°, 41%, 48%
HSV	220°, 58%, 68%
XYZ	15.2540, 14.5417, 41.1909
YIQ	102.7710, -41.1750, 13.8410

Conversions

Conversions Part 2

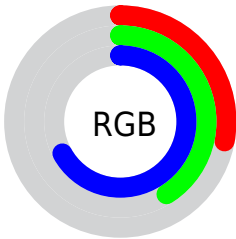
Format	Color
R _Y B	72, 97, 172
Decimal	4745644
CIE Lab	45.00, 8.79, -39.47
CIE LCh	45, 40.441, 282.549
Yxy	14.5417, 0.2149, 0.2049
Android (android.graphics.Color)	4282935724 (0xFF4869AC)
YUV	102.7710, 34.1299, -26.9862
Hunter-Lab	38.1336, 4.6687, -37.3499

Details

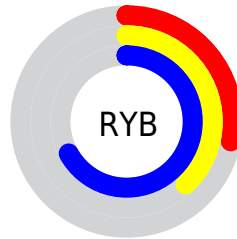
The CIELCh color **45, 40.441, 282.549** is a dark color, and the websafe version is hex **336699**. A complement of this color would be **60, 40.276, 83.764**, and the grayscale version is **44, 0.006, 296.813**.

A 20% lighter version of the original color is **65, 40.472, 282.577**, and **25, 40.569, 283.410** is the 20% darker color. If you saturate the color by 10%, you get **41, 47.919, 285.576**, and if you desaturate by 10%, it is **49, 33.150, 279.887**.

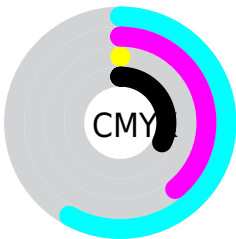
Distribution



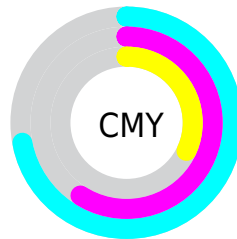
- Red (28%)
- Green (41%)
- Blue (67%)



- Red (28%)
- Yellow (38%)
- Blue (67%)



- Cyan (58%)
- Magenta (39%)
- Yellow (0%)
- Black (32%)





- Cyan (72%)
- Magenta (59%)
- Yellow (32%)

Brightness & Saturation Gradients


These gradients show how the CIELCh color 45, 40.441, 282.549 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 45, 40.441, 282.549 by changing the saturation by 10% instead.


 45, 40.441,
282.549


 45, 40.441,
282.549


 100, 40.441,
282.549


 35, 40.441,
282.549

 65, 40.441,
282.549


 25, 40.441,
282.549

 75, 40.441,
282.549

 15, 40.441,
282.549

 85, 40.441,
282.549

 5, 40.441, 282.549

 95, 40.441,
282.549

 0, 40.441, 282.549

 45, 40.441,

 45, 40.441,

282.549

282.549

■ 41, 47.919,
285.576

■ 49, 33.150,
279.887

■ 37, 55.608,
288.922

■ 54, 26.016,
277.582

■ 33, 63.478,
292.473

■ 58, 19.016,
275.604

■ 30, 71.400,
295.990

■ 62, 12.134,
273.915

■ 29, 72.959,
296.621

■ 67, 5.362, 272.482

■ 71, 1.301, 91.026

■ 76, 7.856, 90.079

■ 80, 14.302, 89.147

■ 85, 20.638, 88.323

Harmonies

Complementary

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



45, 40.441, 282.549



60, 40.276, 83.764

Rectangle

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



45, 40.441, 282.549



45, 40.441, 332.549



45, 40.441, 102.549



45, 40.441, 152.549

Sweetspot

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



45, 40.440, 282.550



80, 14.180, 273.803



64, 38.271, 167.198



41, 9.486, 274.104



95, 0.011, 296.813



47, 0.006, 296.813

Same Dimension

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



45, 40.440, 282.550



52, 61.353, 286.623



37, 61.238, 302.817



34, 3.806, 272.652



25, 65.269, 296.214



2, 8.531, 275.949

Inverse Universe

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



45, 44.219, 2.089



53, 64.239, 5.676



67, 52.508, 112.772



34, 4.184, 354.747



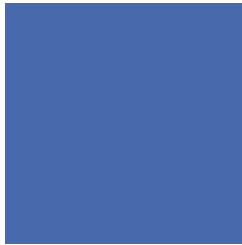
31, 58.154, 17.402



2, 8.415, 358.154

Previews

White Background



This preview shows how the CIE LCh color 45, 40.441, 282.549 looks on a white background.

Color Contrast Check

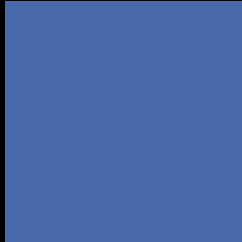
Large Text (above 18pt) WCAG AA ✓ Pass

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 45, 40.441, 282.549 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

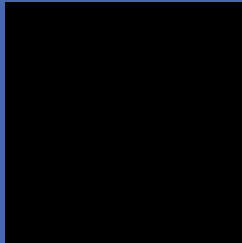
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

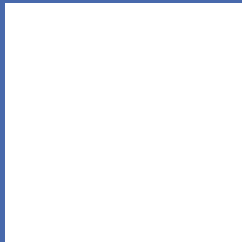
If you want to check with other color combinations, try the [Color Contrast Checker](#).

CIELCh 45, 40.441, 282.549

Background



This preview shows how black text looks on a background with the CIELCh color 45, 40.441, 282.549.

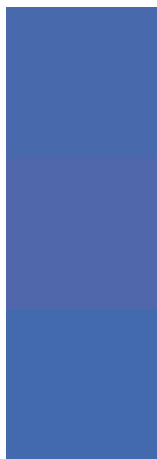


This preview shows how white text looks on a background with the CIELCh color 45, 40.441, 282.549.

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

45, 40.441, 282.549

Protanopia

45, 40.160, 285.678

Deuteranopia

45, 40.130, 279.951



Tritanopia
45, 20.416, 214.567

Trichromacy



Original Color
45, 40.441, 282.549

Protanomaly
45, 40.266, 284.627

Deuteranomaly
45, 40.041, 280.554

Tritanomaly
45, 23.427, 251.165

Monochromacy



Original Color
45, 40.441, 282.549

Achromatopsia
44, 0.006, 296.813

Achromatomaly
44, 14.893, 275.201

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 40.441, 282.549 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, 105, 172)` looks like.

```
.text, #text, p{  
    color:rgb(72, 105, 172)  
}
```

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, 105, 172) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(72, 105, 172) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 40.441, 282.549 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, 105, 172) }
```

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

```
.border{ border-color:rgb(72, 105, 172) }
```

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

Here you see how a box with a 4 pixel rgb(72, 105, 172) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(72, 105, 172); -webkit-box-  
shadow:4px 4px 4px 4px rgb(72, 105, 172);  
box-shadow:4px 4px 4px 4px rgb(72, 105,  
172) }
```

Background

The CSS property to change the background color of an element to CIELCh 45, 40.441, 282.549 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(72, 105, 172) }
```

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

```
.background{ background-color: rgb(72, 105,  
172) }
```

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