

Converting Colors

CIELCh(45, 45.338, 283.933)

Have a look what the booklet for
CIELCh(45, 45.338, 283.933)
contains.

CIELCh(45, 45.090, 283.781)	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, 45.090, 283.781)

Conversions

Conversions Part 1

Format	Color
Hex	4469B4
RGB	68, 105, 180
RGB Percent	27%, 41%, 71%
CMY	0.7347, 0.5894, 0.2954
CMYK	0.62, 0.42, 0.00, 0.30
HSL	220°, 45%, 48%
HSV	220°, 62%, 70%
XYZ	15.5855, 14.5417, 44.9902
YIQ	102.4870, -46.1270, 15.4810

Conversions

Conversions Part 2

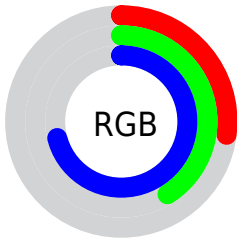
Format	Color
R _{YB}	68, 96, 180
Decimal	4483508
CIE _{Lab}	45.00, 10.74, -43.79
CIE _{LCh}	45, 45.090, 283.781
Yxy	14.5417, 0.2075, 0.1936
Android (android.graphics.Color)	4282673588 (0xFF4469B4)
YUV	102.4870, 38.2139, -30.2451
Hunter-Lab	38.1336, 6.2203, -43.2571

Details

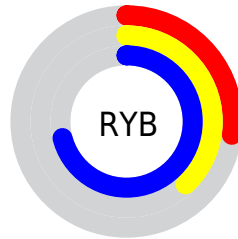
The CIELCh color `45, 45.090, 283.781` is a dark color, and the websafe version is hex `336699`. A complement of this color would be `61, 44.708, 82.993`, and the grayscale version is `43, 0.006, 296.813`.

A 20% lighter version of the original color is `65, 44.821, 283.728`, and `26, 44.719, 285.861` is the 20% darker color. If you saturate the color by 10%, you get `41, 52.905, 286.976`, and if you desaturate by 10%, it is `49, 37.480, 280.942`.

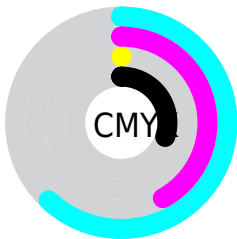
Distribution



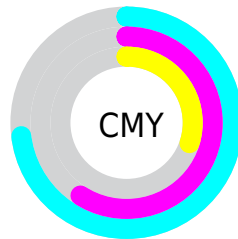
- Red (27%)
- Green (41%)
- Blue (71%)



- Red (27%)
- Yellow (38%)
- Blue (71%)



- Cyan (62%)
- Magenta (42%)
- Yellow (0%)
- Black (30%)





- Cyan (73%)
- Magenta (59%)
- Yellow (30%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 45, 45.090, 283.781 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, 45.090, 283.781 by changing the saturation by 10% instead.


 45, 45.090,
283.781


 45, 45.090,
283.781


 100, 45.090,
283.781


 35, 45.090,
283.781

 65, 45.090,
283.781


 25, 45.090,
283.781

 75, 45.090,
283.781

 15, 45.090,
283.781

 85, 45.090,
283.781

 5, 45.090, 283.781

 95, 45.090,
283.781

 0, 45.090, 283.781

 45, 45.090,

 45, 45.090,

283.781

■ 41, 52.905,
286.976

■ 37, 60.935,
290.451

■ 33, 69.107,
294.052

■ 31, 75.347,
296.664

283.781

■ 49, 37.480,
280.942

■ 54, 30.047,
278.470

■ 58, 22.760,
276.343

■ 63, 15.599,
274.525

■ 68, 8.555, 272.975

■ 72, 1.622, 271.744

■ 77, 5.200, 90.408

■ 81, 11.910, 89.427

■ 86, 18.507, 88.556

Harmonies

Complementary

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



45, 45.090, 283.781



61, 44.708, 82.993

Rectangle

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



45, 45.090, 283.781



45, 45.090, 333.781



45, 45.090, 103.781



45, 45.090, 153.781

Sweetspot

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



45, 45.089, 283.782



82, 16.432, 274.029



66, 41.903, 166.515



42, 11.325, 274.490



96, 0.011, 296.813



49, 0.007, 296.813

Same Dimension

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



45, 45.089, 283.782



51, 68.436, 288.319



37, 68.444, 303.444



35, 3.893, 272.555



26, 66.042, 296.195



2, 10.155, 276.864

Inverse Universe

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



45, 48.822, 3.096



54, 70.041, 7.346



70, 57.733, 112.560



35, 4.289, 354.664



32, 58.867, 17.370



2, 9.810, 359.114

Previews

White Background



This preview shows how the CIELCh color 45, 45.090, 283.781 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 CIELCh color 45, 45.090, 283.781 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, 45.090, 283.781

Background



This preview shows how black text looks on a background with the CIELCh color 45, 45.090, 283.781.



This preview shows how white text looks on a background with the CIELCh color 45, 45.090, 283.781.

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, 45.090, 283.781

Protanopia

45, 44.919, 285.780

Deuteranopia

45, 43.920, 278.758



Tritanopia
45, 23.111, 212.245

Trichromacy



Original Color
45, 45.090, 283.781

Protanomaly
45, 44.983, 285.219

Deuteranomaly
45, 44.287, 280.581

Tritanomaly
45, 25.999, 250.148

Monochromacy



Original Color
45, 45.090, 283.781

Achromatopsia
43, 0.006, 296.813

Achromatomaly
43, 16.705, 276.326

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 45.090, 283.781 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(68, 105, 180)` looks like.

```
.text, #text, p{  
    color:rgb(68, 105, 180)  
}
```

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(68, 105, 180) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(68, 105, 180) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 45.090, 283.781 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(68, 105, 180) }
```

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

```
.border{ border-color:rgb(68, 105, 180) }
```

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

Here you see how a box with a 4 pixel rgb(68, 105, 180) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(68, 105, 180); -webkit-box-  
shadow:4px 4px 4px 4px rgb(68, 105, 180);  
box-shadow:4px 4px 4px 4px rgb(68, 105,  
180) }
```

Background

The CSS property to change the background color of an element to CIELCh 45, 45.090, 283.781 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(68, 105, 180) }
```

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

```
.background{ background-color: rgb(68, 105,  
180) }
```

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