

Converting Colors

CIELCh(45, 29.377, 257.317)

Have a look what the booklet for
CIELCh(45, 29.377, 257.317)
contains.

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Color

CIELCh(45, 29.448, 257.474)

Conversions

Conversions Part 1

Format	Color
Hex	30709A
RGB	48, 112, 154
RGB Percent	19%, 44%, 60%
CMY	0.8119, 0.5609, 0.3962
CMYK	0.69, 0.27, 0.00, 0.40
HSL	204°, 52%, 40%
HSV	204°, 69%, 60%
XYZ	12.8385, 14.5417, 32.6890
YIQ	97.6520, -51.6260, -0.5060

Conversions

Conversions Part 2

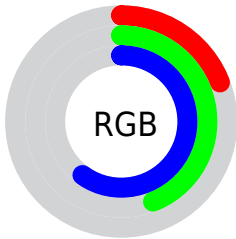
Format	Color
RYB	48, 88, 154
Decimal	3174554
CIELab	45.00, -6.39, -28.75
CIELCh	45, 29.448, 257.474
Yxy	14.5417, 0.2137, 0.2421
Android (android.graphics.Color)	4281364634 (0xFF30709A)
YUV	97.6520, 27.7796, -43.5448
Hunter-Lab	38.1336, -6.6378, -24.1312

Details

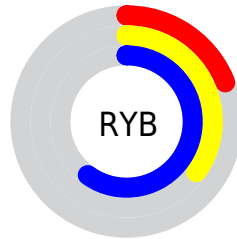
The CIELCh color **45, 29.448, 257.474** is a dark color, and the websafe version is hex **006699**. A complement of this color would be **45, 41.522, 57.204**, and the grayscale version is **41, 0.006, 296.813**.

A 20% lighter version of the original color is **65, 29.516, 257.161**, and **26, 27.898, 266.214** is the 20% darker color. If you saturate the color by 10%, you get **43, 32.822, 261.361**, and if you desaturate by 10%, it is **47, 25.852, 254.165**.

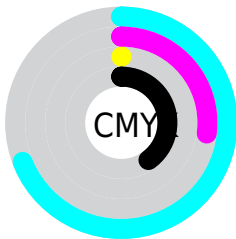
Distribution



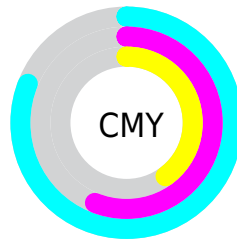
- Red (19%)
- Green (44%)
- Blue (60%)



- Red (19%)
- Yellow (35%)
- Blue (60%)



- Cyan (69%)
- Magenta (27%)
- Yellow (0%)
- Black (40%)



- Cyan (81%)
- Magenta (56%)
- Yellow (40%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 45, 29.448, 257.474 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, 29.448, 257.474 by changing the saturation by 10% instead.


 45, 29.448,
257.474

 45, 29.448,
257.474


 100, 29.448,
257.474

 35, 29.448,
257.474

 65, 29.448,
257.474


 25, 29.448,
257.474

 75, 29.448,
257.474

 15, 29.448,
257.474

 85, 29.448,
257.474

 5, 29.448, 257.474

 95, 29.448,
257.474

 0, 29.448, 257.474

 45, 29.448,

 45, 29.448,

257.474

257.474

■ 43, 32.822,
261.361

■ 47, 25.852,
254.165

■ 40, 36.054,
265.798

■ 50, 22.003,
251.399

■ 38, 39.289,
270.524

■ 53, 17.896,
249.113

■ 38, 39.677,
271.040

■ 55, 13.552,
247.234

■ 58, 9.004, 245.697

■ 61, 4.288, 244.464

■ 64, 0.561, 62.664

■ 67, 5.510, 62.372

■ 70, 10.529, 61.666

Harmonies

Complementary

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



45, 29.448, 257.474



45, 41.522, 57.204

Rectangle

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



45, 29.448, 257.474



45, 29.448, 307.474



45, 29.448, 77.474



45, 29.448, 127.474

Sweetspot

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



45, 29.447, 257.474



73, 12.312, 246.061



57, 51.970, 150.262



37, 8.277, 246.436



90, 0.011, 296.813



42, 0.006, 296.813

Same Dimension

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



45, 29.447, 257.474



53, 41.934, 263.850



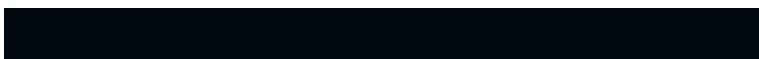
30, 59.236, 297.111



31, 2.724, 244.504



35, 36.829, 270.587



2, 2.992, 244.669

Inverse Universe

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



38, 51.813, 345.405



46, 70.094, 348.293



58, 49.906, 97.723



30, 4.495, 339.091



30, 56.332, 351.830



1, 4.782, 338.925

Previews

White Background



This preview shows how the CIE LCh color 45, 29.448, 257.474 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, 29.448, 257.474 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

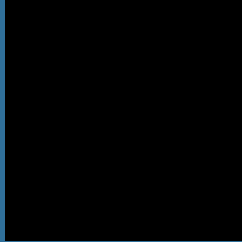
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

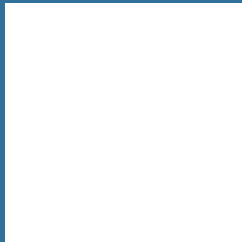
If you want to check with other color combinations, try the [Color Contrast Checker](#).

CIELCh 45, 29.448, 257.474

Background



This preview shows how black text looks on a background with the CIELCh color 45, 29.448, 257.474.

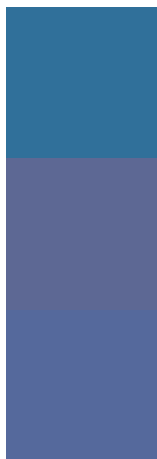


This preview shows how white text looks on a background with the CIELCh color 45, 29.448, 257.474.

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, 29.448, 257.474

Protanopia

45, 26.405, 285.795

Deuteranopia

45, 30.787, 282.574



Tritanopia
45, 24.906, 210.951

Trichromacy



Original Color
45, 29.448, 257.474

Protanomaly
45, 26.877, 273.212

Deuteranomaly
45, 29.464, 272.447

Tritanomaly
45, 24.738, 229.876

Monochromacy



Original Color
45, 29.448, 257.474

Achromatopsia
42, 0.006, 296.813

Achromatomaly
42, 12.099, 247.489

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 29.448, 257.474 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(48, 112, 154)` looks like.

```
.text, #text, p{  
    color:rgb(48, 112, 154)  
}
```

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(48, 112, 154) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(48, 112, 154) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 29.448, 257.474 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(48, 112, 154) }
```

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

```
.border{ border-color:rgb(48, 112, 154) }
```

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

Here you see how a box with a 4 pixel `rgb(48, 112, 154)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(48, 112, 154); -webkit-box-  
shadow:4px 4px 4px 4px rgb(48, 112, 154);  
box-shadow:4px 4px 4px 4px rgb(48, 112,  
154) }
```

Background

The CSS property to change the background color of an element to CIELCh 45, 29.448, 257.474 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(48, 112, 154) }
```

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

```
.background{ background-color: rgb(48, 112,  
154) }
```

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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