

Converting Colors

CIELCh(45, 29.907, 258.051)

Have a look what the booklet for
CIELCh(45, 29.907, 258.051)
contains.

CIELCh(45, 29.968, 258.065)	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, 29.968, 258.065)

Conversions

Conversions Part 1

Format	Color
Hex	2F709B
RGB	47, 112, 155
RGB Percent	18%, 44%, 61%
CMY	0.8160, 0.5610, 0.3924
CMYK	0.70, 0.28, 0.00, 0.39
HSL	204°, 54%, 40%
HSV	204°, 70%, 61%
XYZ	12.8670, 14.5417, 33.1105
YIQ	97.4670, -52.5430, -0.4070

Conversions

Conversions Part 2

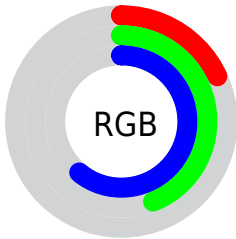
Format	Color
R_{YB}	47, 88, 155
Decimal	3109019
CIE _{Lab}	45.00, -6.20, -29.32
CIE _{LCh}	45, 29.968, 258.065
Yxy	14.5417, 0.2126, 0.2403
Android (android.graphics.Color)	4281299099 (0xFF2F709B)
YUV	97.4670, 28.3638, -44.2596
Hunter-Lab	38.1336, -6.5046, -24.7865

Details

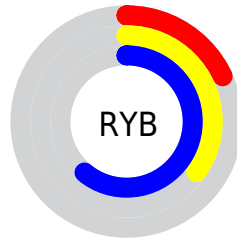
The CIELCh color **45, 29.968, 258.065** is a dark color, and the websafe version is hex **006699**. A complement of this color would be **45, 42.335, 57.296**, and the grayscale version is **41, 0.006, 296.813**.

A 20% lighter version of the original color is **65, 29.935, 257.917**, and **26, 28.418, 267.166** is the 20% darker color. If you saturate the color by 10%, you get **43, 33.365, 262.009**, and if you desaturate by 10%, it is **47, 26.358, 254.699**.

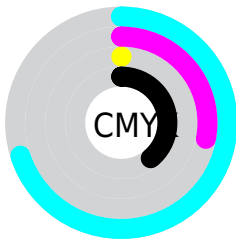
Distribution



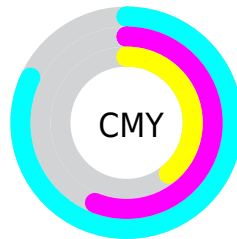
- Red (18%)
- Green (44%)
- Blue (61%)



- Red (18%)
- Yellow (35%)
- Blue (61%)



- Cyan (70%)
- Magenta (28%)
- Yellow (0%)
- Black (39%)





- Cyan (82%)
- Magenta (56%)
- Yellow (39%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 45, 29.968, 258.065 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, 29.968, 258.065 by changing the saturation by 10% instead.


 45, 29.968,
258.065


 45, 29.968,
258.065


 100, 29.968,
258.065


 35, 29.968,
258.065

 65, 29.968,
258.065


 25, 29.968,
258.065

 75, 29.968,
258.065

 15, 29.968,
258.065

 85, 29.968,
258.065

 5, 29.968, 258.065

 95, 29.968,
258.065

 0, 29.968, 258.065

 45, 29.968,

 45, 29.968,

258.065

■ 43, 33.365,
262.009

■ 40, 36.630,
266.494

■ 38, 39.925,
271.203

■ 38, 40.023,
271.330

258.065

■ 47, 26.358,
254.699

■ 50, 22.497,
251.880

■ 53, 18.380,
249.547

■ 55, 14.025,
247.628

■ 58, 9.463, 246.056

■ 61, 4.731, 244.789

■ 64, 0.137, 60.934

■ 67, 5.105, 62.658

■ 70, 10.147, 61.939

Harmonies

Complementary

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



45, 29.968, 258.065



45, 42.335, 57.296

Rectangle

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



45, 29.968, 258.065



45, 29.968, 308.065



45, 29.968, 78.065



45, 29.968, 128.065

Sweetspot

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



45, 29.967, 258.066



74, 12.452, 246.301



57, 52.766, 150.111



38, 8.459, 246.686



91, 0.011, 296.813



43, 0.006, 296.813

Same Dimension

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



45, 29.967, 258.066



54, 42.893, 264.608



30, 60.376, 297.343



31, 2.726, 244.735



35, 36.964, 270.849



2, 2.994, 244.889

Inverse Universe

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



38, 52.464, 345.661



46, 71.022, 348.663



59, 50.661, 97.633



30, 4.489, 339.179



30, 56.283, 351.985



1, 4.776, 339.012

Previews

White Background



This preview shows how the CIE LCh color 45, 29.968, 258.065 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, 29.968, 258.065 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

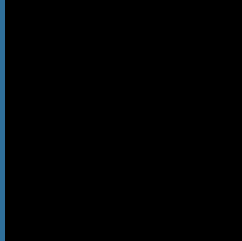
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

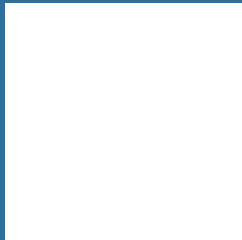
If you want to check with other color combinations, try the [Color Contrast Checker](#).

CIELCh 45, 29.968, 258.065

Background



This preview shows how black text looks on a background with the CIELCh color 45, 29.968, 258.065.

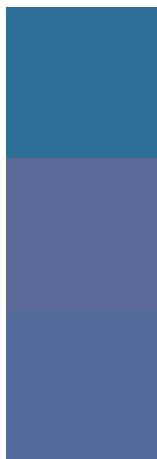


This preview shows how white text looks on a background with the CIELCh color 45, 29.968, 258.065.

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, 29.968, 258.065

Protanopia

45, 27.025, 285.411

Deuteranopia

45, 30.835, 282.049



Tritanopia
45, 25.261, 210.717

Trichromacy



Original Color
45, 29.968, 258.065

Protanomaly
45, 27.497, 273.264

Deuteranomaly
45, 30.073, 272.573

Tritanomaly
45, 24.979, 229.504

Monochromacy



Original Color
45, 29.968, 258.065

Achromatopsia
41, 0.006, 296.813

Achromatomaly
42, 12.526, 249.650

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 29.968, 258.065 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(47, 112, 155)` looks like.

```
.text, #text, p{  
    color:rgb(47, 112, 155)  
}
```

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(47, 112, 155) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(47, 112, 155) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 29.968, 258.065 is called "border". The border property can be set on classes, ids or directly on the HTML element.

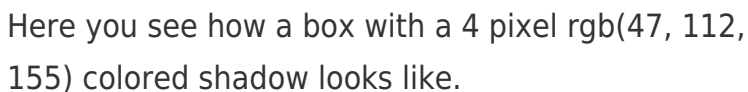
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(47, 112, 155) }
```

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

```
.border{ border-color:rgb(47, 112, 155) }
```

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



Here you see how a box with a 4 pixel `rgb(47, 112, 155)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(47, 112, 155); -webkit-box-shadow:4px 4px 4px 4px rgb(47, 112, 155); box-shadow:4px 4px 4px 4px rgb(47, 112, 155) }
```

Background

The CSS property to change the background color of an element to CIELCh 45, 29.968, 258.065 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(47, 112, 155) }
```

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

```
.background{ background-color: rgb(47, 112,  
155) }
```

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