

Converting Colors

CIELCh(45, 10.111, 231.009)

Have a look what the booklet for
CIELCh(45, 10.111, 231.009)
contains.

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Color

CIELCh(45, 9.960, 231.420)

Conversions

Conversions Part 1

Format	Color
Hex	576E77
RGB	87, 110, 119
RGB Percent	34%, 43%, 47%
CMY	0.6584, 0.5682, 0.5329
CMYK	0.27, 0.08, 0.00, 0.53
HSL	197°, 16%, 40%
HSV	197°, 27%, 47%
XYZ	12.8649, 14.5417, 19.6168
YIQ	104.1490, -16.5970, -2.0770

Conversions

Conversions Part 2

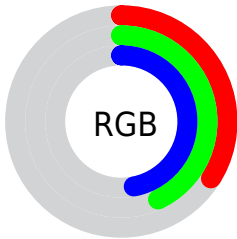
Format	Color
R_{YB}	87, 100, 119
Decimal	5729911
CIE _{Lab}	45.00, -6.21, -7.79
CIE _{LCh}	45, 9.960, 231.420
Yxy	14.5417, 0.2736, 0.3092
Android (android.graphics.Color)	4283919991 (0xFF576E77)
YUV	104.1490, 7.3215, -15.0397
Hunter-Lab	38.1336, -6.5142, -3.8066

Details

The CIELCh color **45, 9.960, 231.420** is a dark color, and the websafe version is hex **666666**. A complement of this color would be **43, 11.653, 47.892**, and the grayscale version is **44, 0.006, 296.813**.

A 20% lighter version of the original color is **65, 9.801, 229.609**, and **25, 10.116, 234.500** is the 20% darker color. If you saturate the color by 10%, you get **43, 13.260, 232.632**, and if you desaturate by 10%, it is **47, 6.415, 230.468**.

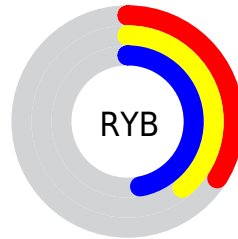
Distribution



Red (34%)

Green (43%)

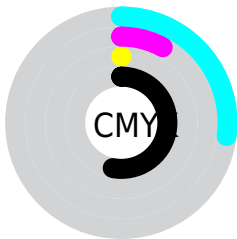
Blue (47%)



Red (34%)

Yellow (39%)

Blue (47%)

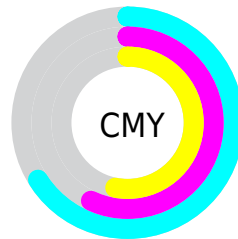


Cyan (27%)

Magenta (8%)

Yellow (0%)

Black (53%)



Cyan (66%)

Magenta (57%)

Yellow (53%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 45, 9.960, 231.420 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, 9.960, 231.420 by changing the saturation by 10% instead.

■ 45, 9.960, 231.420

■ 45, 9.960, 231.420

■ 100, 9.960,
231.420

■ 35, 9.960, 231.420

■ 65, 9.960, 231.420

■ 25, 9.960, 231.420

■ 75, 9.960, 231.420

■ 15, 9.960, 231.420

■ 85, 9.960, 231.420

■ 5, 9.960, 231.420

■ 95, 9.960, 231.420

■ 0, 9.960, 231.420

■ 45, 9.960, 231.420

■ 45, 9.960, 231.420

■ 43, 13.260,
232.632

■ 47, 6.415, 230.468

■ 42, 16.270,

■ 49, 2.670, 229.787

234.178

51, 1.236, 48.778

40, 18.951,
236.123

53, 5.264, 48.535

38, 21.274,
238.548

55, 9.386, 48.206

37, 23.234,
241.531

57, 13.575, 47.942

36, 24.859,
245.132

59, 17.810, 47.737

34, 26.268,
249.222

61, 22.073, 47.581

34, 26.728,
250.456

63, 26.352, 47.464

Harmonies

Complementary

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



45, 9.960, 231.420



43, 11.653, 47.892

Rectangle

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



45, 9.960, 231.420



45, 9.960, 281.420



45, 9.960, 51.420



45, 9.960, 101.420

Sweetspot

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



45, 9.960, 231.414



62, 3.858, 229.857



47, 19.085, 151.013



32, 2.756, 229.933



83, 0.010, 296.813



34, 0.005, 296.813

Same Dimension

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



45, 9.960, 231.414



57, 14.505, 232.102



40, 15.107, 281.910



24, 2.151, 229.904



35, 27.283, 250.609



69, 47.240, 253.554

Inverse Universe

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



41, 19.038, 335.322



51, 28.192, 335.759



47, 14.785, 95.262



23, 3.907, 334.078



26, 54.633, 342.833



56, 91.703, 343.900

Previews

White Background



This preview shows how the CIELCh color 45, 9.960, 231.420 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, 9.960, 231.420 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

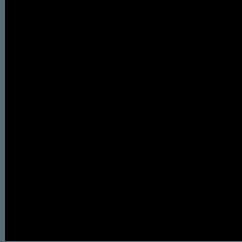
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 45, 9.960, 231.420

Background



This preview shows how black text looks on a background with the CIELCh color 45, 9.960, 231.420.



This preview shows how white text looks on a background with the CIELCh color 45, 9.960, 231.420.

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, 9.960, 231.420

Protanopia

45, 6.577, 291.109

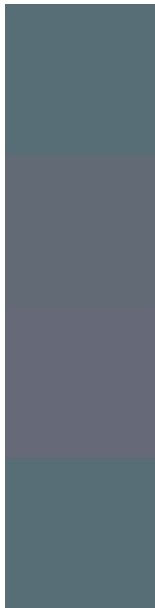
Deuteranopia

45, 10.578, 306.611



Tritanopia
45, 9.960, 231.420

Trichromacy



Original Color

45, 9.960, 231.420

Protanomaly

45, 6.834, 260.399

Deuteranomaly

45, 8.467, 280.857

Tritanomaly

45, 9.960, 231.420

Monochromacy



Original Color

45, 9.960, 231.420

Achromatopsia

44, 0.006, 296.813

Achromatomaly

44, 3.628, 228.882

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 9.960, 231.420 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(87, 110, 119)` looks like.

```
.text, #text, p{  
    color:rgb(87, 110, 119)  
}
```

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(87, 110, 119) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(87, 110, 119) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 9.960, 231.420 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(87, 110, 119) }
```

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

```
.border{ border-color:rgb(87, 110, 119) }
```

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

Here you see how a box with a 4 pixel `rgb(87, 110, 119)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(87, 110, 119); -webkit-box-  
shadow:4px 4px 4px 4px rgb(87, 110, 119);  
box-shadow:4px 4px 4px 4px rgb(87, 110,  
119) }
```

Background

The CSS property to change the background color of an element to CIELCh 45, 9.960, 231.420 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(87, 110, 119) }
```

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

```
.background{ background-color: rgb(87, 110,  
119) }
```

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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