

Converting Colors

CIELCh(45, 50.670, 28.241)

Have a look what the booklet for
CIELCh(45, 50.670, 28.241) contains.

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Color

CIELCh(45, 50.670, 28.241)

Conversions

Conversions Part 1

Format	Color
Hex	B44645
RGB	180, 70, 69
RGB Percent	71%, 27%, 27%
CMY	0.2937, 0.7251, 0.7291
CMYK	0.00, 0.61, 0.62, 0.29
HSL	1°, 45%, 49%
HSV	1°, 62%, 71%
XYZ	22.1237, 14.5417, 7.2858
YIQ	102.7760, 65.8810, 23.0090

Conversions

Conversions Part 2

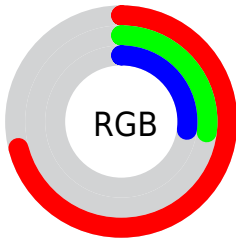
Format	Color
R _Y B	180, 70, 69
Decimal	11814469
CIE Lab	45.00, 44.64, 23.98
CIE LCh	45, 50.670, 28.241
Yxy	14.5417, 0.5034, 0.3309
Android (android.graphics.Color)	4290004549 (0xFFB44645)
YUV	102.7760, -16.6516, 67.7254
Hunter-Lab	38.1336, 36.8254, 15.3655

Details

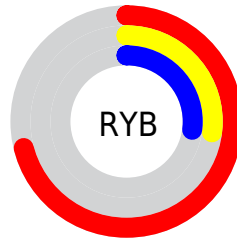
The CIELCh color **45, 50.670, 28.241** is a dark color, and the websafe version is hex **993333**. A complement of this color would be **67, 31.931, 197.906**, and the grayscale version is **44, 0.006, 296.813**.

A 20% lighter version of the original color is **65, 50.446, 28.529**, and **25, 50.544, 28.017** is the 20% darker color. If you saturate the color by 10%, you get **42, 59.814, 31.142**, and if you desaturate by 10%, it is **49, 41.433, 25.920**.

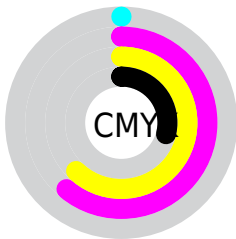
Distribution



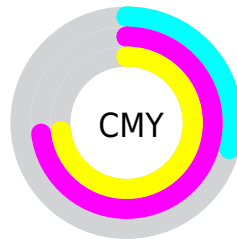
- Red (71%)
- Green (27%)
- Blue (27%)



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



- Cyan (0%)
- Magenta (61%)
- Yellow (62%)
- Black (29%)



- Cyan (29%)
- Magenta (73%)
- Yellow (73%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 45, 50.670, 28.241 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, 50.670, 28.241 by changing the saturation by 10% instead.

■ 45, 50.670, 28.241

■ 45, 50.670, 28.241

■ 100, 50.670,
28.241

■ 35, 50.670, 28.241

■ 65, 50.670, 28.241

■ 25, 50.670, 28.241

■ 75, 50.670, 28.241

■ 15, 50.670, 28.241

■ 85, 50.670, 28.241

■ 5, 50.670, 28.241

■ 95, 50.670, 28.241

■ 0, 50.670, 28.241

■ 45, 50.670, 28.241

■ 45, 50.670, 28.241

■ 42, 59.814, 31.142

■ 49, 41.433, 25.920

■ 40, 68.443, 34.497

■ 53, 32.401, 24.116

38, 75.726, 37.764

58, 23.770, 22.733

37, 80.405, 40.083

62, 15.654, 21.670

67, 8.098, 20.832

73, 1.098, 19.806

78, 5.376, 199.881

83, 11.371,
199.449

88, 16.939,
199.132

Harmonies

Complementary

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



45, 50.670, 28.241



67, 31.931, 197.906

Rectangle

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



45, 50.670, 28.241



45, 50.670, 78.241



45, 50.670, 208.241



45, 50.670, 258.241

Sweetspot

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



45, 50.668, 28.244



82, 15.933, 21.370



49, 69.956, 327.479



41, 11.187, 21.627



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, 50.668, 28.244



53, 76.820, 32.321



57, 41.553, 67.719



35, 3.875, 20.656



31, 70.804, 39.663



2, 9.090, 20.000

Inverse Universe

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



67, 31.931, 197.906



85, 43.154, 197.749



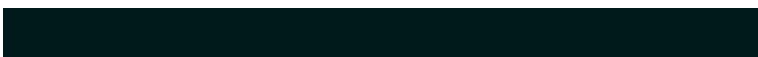
51, 34.821, 268.312



37, 3.656, 199.787



57, 33.786, 197.795



7, 9.007, 200.306

Previews

White Background



This preview shows how the CIELCh color 45, 50.670, 28.241 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, 50.670, 28.241 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

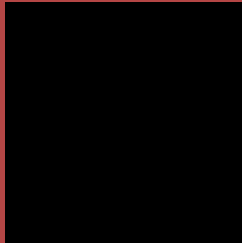
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 45, 50.670, 28.241

Background



This preview shows how black text looks on a background with the CIELCh color 45, 50.670, 28.241.



This preview shows how white text looks on a background with the CIELCh color 45, 50.670, 28.241.

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, 50.670, 28.241

Protanopia

45, 13.965, 95.342

Deuteranopia

45, 26.383, 76.630



Tritanopia
45, 50.012, 24.638

Trichromacy



Original Color
45, 50.670, 28.241

Protanomaly
44, 22.527, 44.691

Deuteranomaly
44, 31.953, 48.290

Tritanomaly
45, 50.376, 25.909

Monochromacy



Original Color
45, 50.670, 28.241

Achromatopsia
44, 0.006, 296.813

Achromatomaly
43, 17.712, 21.837

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 50.670, 28.241 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(180, 70, 69)` looks like.

```
.text, #text, p{  
    color:rgb(180, 70, 69)  
}
```

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(180, 70, 69) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(180, 70, 69) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 50.670, 28.241 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(180, 70, 69) }
```

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

```
.border{ border-color:rgb(180, 70, 69) }
```

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

Here you see how a box with a 4 pixel `rgb(180, 70, 69)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(180, 70, 69); -webkit-box-  
shadow:4px 4px 4px 4px rgb(180, 70, 69);  
box-shadow:4px 4px 4px 4px rgb(180, 70,  
69) }
```

Background

The CSS property to change the background color of an element to CIELCh 45, 50.670, 28.241 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(180, 70, 69) }
```

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

```
.background{ background-color: rgb(180, 70,  
69) }
```

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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