

Converting Colors

CIELCh(45, 48.325, 43.590)

Have a look what the booklet for
CIELCh(45, 48.325, 43.590) contains.

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Color

CIELCh(45, 48.375, 43.905)

Conversions

Conversions Part 1

Format	Color
Hex	AA5034
RGB	170, 80, 52
RGB Percent	67%, 31%, 20%
CMY	0.3332, 0.6861, 0.7959
CMYK	0.00, 0.53, 0.69, 0.33
HSL	14°, 53%, 44%
HSV	14°, 69%, 67%
XYZ	20.0787, 14.5417, 5.0013
YIQ	103.7180, 62.6280, 10.3720

Conversions

Conversions Part 2

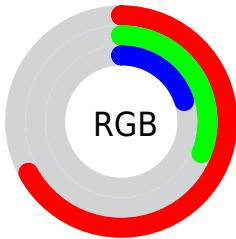
Format	Color
R_{YB}	170, 89, 52
Decimal	11161652
CIE Lab	45.00, 34.85, 33.55
CIE LCh	45, 48.375, 43.905
Yxy	14.5417, 0.5068, 0.3670
Android (android.graphics.Color)	4289351732 (0xFFAA5034)
YUV	103.7180, -25.4970, 58.1293
Hunter-Lab	38.1336, 27.2529, 18.9175

Details

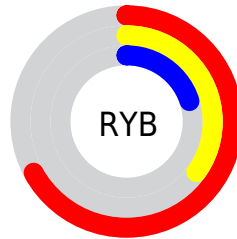
The CIELCh color **45, 48.375, 43.905** is a dark color, and the websafe version is hex **993333**. A complement of this color would be **55, 28.388, 232.464**, and the grayscale version is **44, 0.006, 296.813**.

A 20% lighter version of the original color is **65, 48.351, 43.468**, and **25, 48.402, 43.610** is the 20% darker color. If you saturate the color by 10%, you get **42, 56.822, 44.462**, and if you desaturate by 10%, it is **48, 40.022, 43.437**.

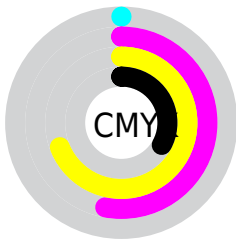
Distribution



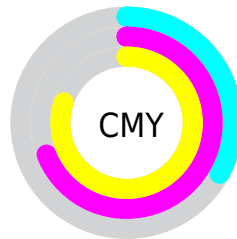
- Red (67%)
- Green (31%)
- Blue (20%)



- Red (67%)
- Yellow (35%)
- Blue (20%)



- Cyan (0%)
- Magenta (53%)
- Yellow (69%)
- Black (33%)



- Cyan (33%)
- Magenta (69%)
- Yellow (80%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 45, 48.375, 43.905 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, 48.375, 43.905 by changing the saturation by 10% instead.

■ 45, 48.375, 43.905

■ 45, 48.375, 43.905

■ 100, 48.375,
43.905

■ 35, 48.375, 43.905

■ 65, 48.375, 43.905

■ 25, 48.375, 43.905

■ 75, 48.375, 43.905

■ 15, 48.375, 43.905

■ 85, 48.375, 43.905

■ 5, 48.375, 43.905

■ 95, 48.375, 43.905

■ 0, 48.375, 43.905

■ 45, 48.375, 43.905

■ 45, 48.375, 43.905

■ 42, 56.822, 44.462

■ 48, 40.022, 43.437

■ 40, 64.742, 44.825

■ 51, 32.046, 43.138

38, 71.459, 44.886

55, 24.559, 43.019

38, 71.882, 44.940

58, 17.597, 43.060

62, 11.151, 43.225

66, 5.192, 43.462

70, 0.322, 225.380

74, 5.435, 224.423

78, 10.193,
224.842

Harmonies

Complementary

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



45, 48.375, 43.905



55, 28.388, 232.464

Rectangle

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



45, 48.375, 43.905



45, 48.375, 93.905



45, 48.375, 223.905



45, 48.375, 273.905

Sweetspot

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



45, 48.373, 43.908



78, 15.107, 43.184



43, 62.278, 336.791



40, 10.419, 43.135



95, 0.011, 296.813



47, 0.006, 296.813

Same Dimension

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



45, 48.373, 43.908



54, 74.377, 44.700



59, 49.045, 87.178



34, 3.098, 43.464



33, 64.463, 45.141



2, 5.557, 39.968

Inverse Universe

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



55, 28.388, 232.464



68, 38.176, 237.117



38, 53.145, 290.033



34, 2.934, 224.407



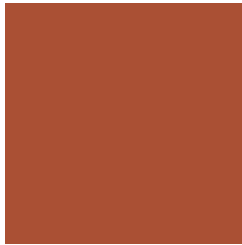
44, 29.967, 242.731



4, 5.386, 232.185

Previews

White Background



This preview shows how the CIELCh color 45, 48.375, 43.905 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, 48.375, 43.905 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, 48.375, 43.905

Background



This preview shows how black text looks on a background with the CIELCh color 45, 48.375, 43.905.



This preview shows how white text looks on a background with the CIELCh color 45, 48.375, 43.905.

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, 48.375, 43.905

Protanopia

45, 27.367, 95.389

Deuteranopia

45, 35.695, 80.363



Tritanopia
45, 42.942, 21.781

Trichromacy



Original Color
45, 48.375, 43.905

Protanomaly
44, 30.751, 67.788

Deuteranomaly
45, 37.878, 63.800

Tritanomaly
45, 44.131, 30.379

Monochromacy



Original Color
45, 48.375, 43.905

Achromatopsia
44, 0.006, 296.813

Achromatomaly
43, 16.200, 42.538

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 48.375, 43.905 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(170, 80, 52)` looks like.

```
.text, #text, p{  
    color:rgb(170, 80, 52)  
}
```

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(170, 80, 52) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(170, 80, 52) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 48.375, 43.905 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(170, 80, 52) }
```

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

```
.border{ border-color:rgb(170, 80, 52) }
```

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

Here you see how a box with a 4 pixel `rgb(170, 80, 52)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(170, 80, 52); -webkit-box-  
shadow:4px 4px 4px 4px rgb(170, 80, 52);  
box-shadow:4px 4px 4px 4px rgb(170, 80,  
52) }
```

Background

The CSS property to change the background color of an element to CIELCh 45, 48.375, 43.905 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(170, 80, 52) }
```

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

```
.background{ background-color: rgb(170, 80,  
52) }
```

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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