

Converting Colors

CIELCh(49, 84.097, 24.664)

Have a look what the booklet for
CIELCh(49, 84.097, 24.664) contains.

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Color

CIELCh(49, 83.874, 25.033)

Conversions

Conversions Part 1

Format	Color
Hex	E9003E
RGB	233, 0, 62
RGB Percent	91%, 0%, 24%
CMY	0.0875, 1.0000, 0.7577
CMYK	0.00, 1.00, 0.73, 0.09
HSL	344°, 100%, 46%
HSV	344°, 100%, 91%
XYZ	34.3551, 17.5941, 6.1121
YIQ	76.7350, 118.9660, 68.6780

Conversions

Conversions Part 2

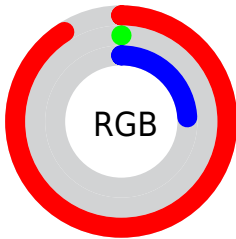
Format	Color
RYB	233, 0, 62
Decimal	15269950
CIELab	49.00, 76.00, 35.49
CIElCh	49, 83.874, 25.033
Yxy	17.5941, 0.5917, 0.3030
Android (android.graphics.Color)	4293460030 (0xFFE9003E)
YUV	76.7350, -7.2644, 137.0444
Hunter-Lab	41.9453, 72.7956, 20.7222

Details

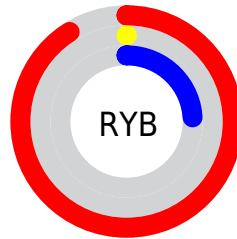
The CIELCh color **49, 83.874, 25.033** is a dark color, and the websafe version is hex **CC0033**. The color can be described as dark washed red. A complement of this color would be **82, 63.406, 164.375**, and the grayscale version is **33, 0.005, 296.813**.

A 20% lighter version of the original color is **62, 67.272, 21.702**, and **35, 71.425, 34.466** is the 20% darker color. If you saturate the color by 10%, you get **49, 83.814, 25.076**, and if you desaturate by 10%, it is **50, 79.027, 19.588**.

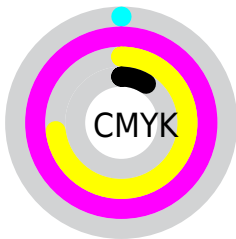
Distribution



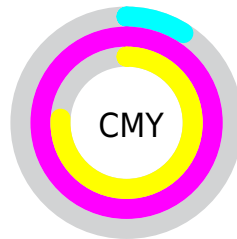
- Red (91%)
- Green (0%)
- Blue (24%)



- Red (91%)
- Yellow (0%)
- Blue (24%)



- Cyan (0%)
- Magenta (100%)
- Yellow (73%)
- Black (9%)



- Cyan (9%)
- Magenta (100%)
- Yellow (76%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 49, 83.874, 25.033 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 49, 83.874, 25.033 by changing the saturation by 10% instead.

 49, 83.874, 25.033

 49, 83.874, 25.033

 100, 83.874,
25.033

 39, 83.874, 25.033

 69, 83.874, 25.033

 29, 83.874, 25.033

 79, 83.874, 25.033

 19, 83.874, 25.033

 89, 83.874, 25.033

 9, 83.874, 25.033

 99, 83.874, 25.033

 0, 83.874, 25.033

 49, 83.874, 25.033

 49, 83.874, 25.033

 49, 83.814, 25.076

 50, 79.027, 19.588

 52, 73.271, 14.761

■ 55, 66.109, 10.846

■ 59, 57.654, 7.751

■ 63, 48.278, 5.309

■ 68, 38.417, 3.358

■ 74, 28.441, 1.768

■ 80, 18.619, 0.442

■ 86, 9.112, 359.297

Harmonies

Complementary

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



49, 83.874, 25.033



82, 63.406, 164.375

Rectangle

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



49, 83.874, 25.033



49, 83.874, 75.033



49, 83.874, 205.033



49, 83.874, 255.033

Sweetspot

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



49, 83.814, 25.076



80, 30.641, 1.790



45, 111.145, 318.309



40, 21.035, 2.428



0, 0.000, 0.000



53, 0.007, 296.813

Same Dimension

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



49, 83.814, 25.076



54, 90.020, 25.390



52, 91.711, 44.220



46, 5.204, 359.239



38, 68.990, 24.062



7, 27.815, 11.276

Inverse Universe

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



49, 83.814, 25.076



54, 90.020, 25.390



68, 42.110, 243.479



46, 5.204, 359.239



38, 68.990, 24.062



7, 27.815, 11.276

Previews

White Background



This preview shows how the CIELCh color 49, 83.874, 25.033 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 49, 83.874, 25.033 looks on a black 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

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

CIELCh 49, 83.874, 25.033

Background



This preview shows how black text looks on a background with the CIELCh color 49, 83.874, 25.033.



This preview shows how white text looks on a background with the CIELCh color 49, 83.874, 25.033.

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

49, 83.874, 25.033

Protanopia

50, 14.958, 94.709

Deuteranopia

50, 39.985, 80.259



Tritanopia
49, 92.550, 38.675

Trichromacy



Original Color
49, 83.874, 25.033

Protanomaly
44, 40.299, 20.306

Deuteranomaly
45, 53.373, 37.190

Tritanomaly
49, 89.492, 34.618

Monochromacy



Original Color
49, 83.874, 25.033

Achromatopsia
33, 0.005, 296.813

Achromatomaly
33, 38.829, 8.516

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 49, 83.874, 25.033 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(233, 0, 62)` looks like.

```
.text, #text, p{  
    color:rgb(233, 0, 62)  
}
```

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(233, 0, 62) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(233, 0, 62) }
```

Border

The CSS property to change the border of an element to CIELCh 49, 83.874, 25.033 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(233, 0, 62) }
```

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

```
.border{ border-color:rgb(233, 0, 62) }
```

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

Here you see how a box with a 4 pixel rgb(233, 0, 62) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(233, 0, 62); -webkit-box-  
shadow:4px 4px 4px 4px rgb(233, 0, 62);  
box-shadow:4px 4px 4px 4px rgb(233, 0, 62)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 49, 83.874, 25.033 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(233, 0, 62) }
```

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

```
.background{ background-color: rgb(233, 0,  
62) }
```

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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