

Converting Colors

CIELCh(49, 87.569, 29.867)

Have a look what the booklet for
CIELCh(49, 87.569, 29.867) contains.

CIELCh(49, 87.474, 29.963)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	11
<i>Previews</i>	20
<i>Color Blindness Simulation</i>	23
<i>CSS Examples</i>	26

Color

CIELCh(49, 87.474, 29.963)

Conversions

Conversions Part 1

Format	Color
Hex	EA0030
RGB	234, 0, 48
RGB Percent	92%, 0%, 19%
CMY	0.0841, 1.0000, 0.8130
CMYK	0.00, 1.00, 0.80, 0.08
HSL	348°, 100%, 46%
HSV	348°, 100%, 92%
XYZ	34.2937, 17.5941, 4.3519
YIQ	75.4380, 124.0560, 64.5360

Conversions

Conversions Part 2

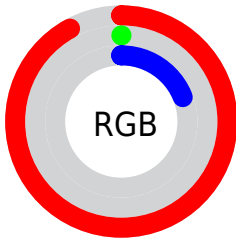
Format	Color
RYB	234, 0, 48
Decimal	15335472
CIELab	49.00, 75.78, 43.69
CIELCh	49, 87.474, 29.963
Yxy	17.5941, 0.6098, 0.3128
Android (android.graphics.Color)	4293525552 (0xFFEA0030)
YUV	75.4380, -13.5269, 139.0589
Hunter-Lab	41.9453, 72.5344, 23.2103

Details

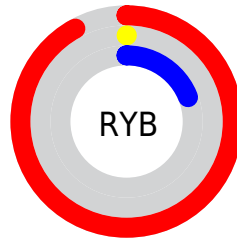
The CIELCh color **49, 87.474, 29.963** is a dark color, and the websafe version is hex **FF0033**. The color can be described as dark washed red. A complement of this color would be **83, 58.715, 170.115**, and the grayscale version is **32, 0.005, 296.813**.

A 20% lighter version of the original color is **62, 69.673, 27.848**, and **35, 75.359, 38.890** is the 20% darker color. If you saturate the color by 10%, you get **49, 87.393, 30.024**, and if you desaturate by 10%, it is **50, 81.551, 24.694**.

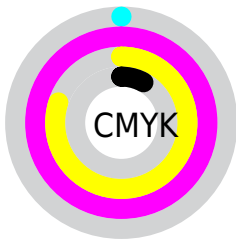
Distribution



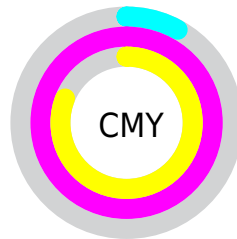
- Red (92%)
- Green (0%)
- Blue (19%)



- Red (92%)
- Yellow (0%)
- Blue (19%)



- Cyan (0%)
- Magenta (100%)
- Yellow (80%)
- Black (8%)



- Cyan (8%)
- Magenta (100%)
- Yellow (81%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 49, 87.474, 29.963 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, 87.474, 29.963 by changing the saturation by 10% instead.

 49, 87.474, 29.963

 49, 87.474, 29.963

 100, 87.474,
29.963

 39, 87.474, 29.963

 69, 87.474, 29.963

 29, 87.474, 29.963

 79, 87.474, 29.963

 19, 87.474, 29.963

 89, 87.474, 29.963

 9, 87.474, 29.963

 99, 87.474, 29.963

 0, 87.474, 29.963

 49, 87.474, 29.963

 49, 87.474, 29.963

 49, 87.393, 30.024

 50, 81.551, 24.694

 52, 74.805, 19.797

■ 55, 66.869, 15.738

■ 59, 57.866, 12.503

■ 63, 48.140, 9.953

■ 69, 38.091, 7.930

■ 74, 28.062, 6.301

■ 80, 18.291, 4.959

■ 86, 8.916, 3.814

Harmonies

Complementary

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



49, 87.474, 29.963



83, 58.715, 170.115

Rectangle

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



49, 87.474, 29.963



49, 87.474, 79.963



49, 87.474, 209.963



49, 87.474, 259.963

Sweetspot

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



49, 87.393, 30.024



80, 30.144, 6.322



47, 110.524, 320.012



40, 20.736, 6.974



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, 87.393, 30.024



54, 93.640, 30.307



53, 89.744, 46.179



46, 5.077, 3.756



38, 71.610, 29.047



7, 27.900, 14.257

Inverse Universe

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



49, 87.393, 30.024



54, 93.640, 30.307



65, 44.954, 253.761



46, 5.077, 3.756



38, 71.610, 29.047



7, 27.900, 14.257

Previews

White Background



This preview shows how the CIELCh color 49, 87.474, 29.963 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 49, 87.474, 29.963 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, 87.474, 29.963

Background



This preview shows how black text looks on a background with the CIELCh color 49, 87.474, 29.963.



This preview shows how white text looks on a background with the CIELCh color 49, 87.474, 29.963.

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, 87.474, 29.963

Protanopia

50, 25.876, 95.554

Deuteranopia

50, 48.118, 81.973



Tritanopia
49, 96.459, 40.780

Trichromacy



Original Color
49, 87.474, 29.963

Protanomaly
44, 44.631, 33.913

Deuteranomaly
45, 59.587, 44.509

Tritanomaly
49, 94.033, 38.165

Monochromacy



Original Color
49, 87.474, 29.963

Achromatopsia
32, 0.005, 296.813

Achromatomaly
33, 38.950, 13.204

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 49, 87.474, 29.963 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(234, 0, 48)` looks like.

```
.text, #text, p{  
    color:rgb(234, 0, 48)  
}
```

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(234, 0, 48) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(234, 0, 48) }
```

Border

The CSS property to change the border of an element to CIELCh 49, 87.474, 29.963 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(234, 0, 48) }
```

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

```
.border{ border-color:rgb(234, 0, 48) }
```

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

Here you see how a box with a 4 pixel rgb(234, 0, 48) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(234, 0, 48); -webkit-box-  
shadow:4px 4px 4px 4px rgb(234, 0, 48);  
box-shadow:4px 4px 4px 4px rgb(234, 0, 48)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 49, 87.474, 29.963 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(234, 0, 48) }
```

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

```
.background{ background-color: rgb(234, 0,  
48) }
```

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