

Converting Colors

CIELCh(49, 81.623, 21.049)

Have a look what the booklet for
CIELCh(49, 81.623, 21.049) contains.

CIELCh(49, 81.625, 21.085)	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, 81.625, 21.085)

Conversions

Conversions Part 1

Format	Color
Hex	E80048
RGB	232, 0, 72
RGB Percent	91%, 0%, 28%
CMY	0.0907, 1.0000, 0.7180
CMYK	0.00, 1.00, 0.69, 0.09
HSL	341°, 100%, 45%
HSV	341°, 100%, 91%
XYZ	34.4029, 17.5941, 7.6993
YIQ	77.5760, 115.1600, 71.5760

Conversions

Conversions Part 2

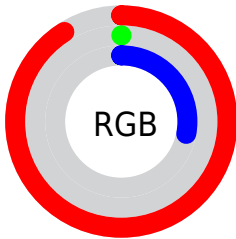
Format	Color
R_{YB}	232, 0, 72
Decimal	15204424
CIE Lab	49.00, 76.16, 29.36
CIE LCh	49, 81.625, 21.085
Yxy	17.5941, 0.5763, 0.2947
Android (android.graphics.Color)	4293394504 (0xFFE80048)
YUV	77.5760, -2.7490, 135.4298
Hunter-Lab	41.9453, 72.9987, 18.4786

Details

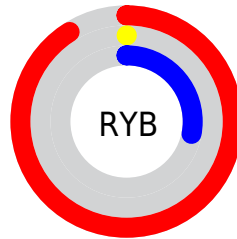
The CIELCh color **49, 81.625, 21.085** is a dark color, and the websafe version is hex **CC0033**. The color can be described as dark washed red. A complement of this color would be **82, 66.958, 160.711**, and the grayscale version is **33, 0.005, 296.813**.

A 20% lighter version of the original color is **62, 66.051, 16.565**, and **35, 68.597, 30.929** is the 20% darker color. If you saturate the color by 10%, you get **49, 81.600, 21.101**, and if you desaturate by 10%, it is **50, 77.624, 15.671**.

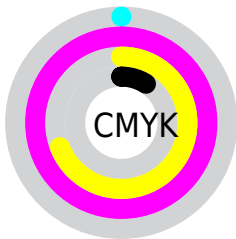
Distribution



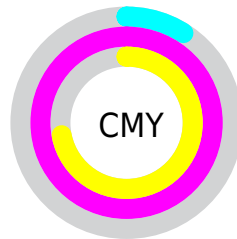
- Red (91%)
- Green (0%)
- Blue (28%)



- Red (91%)
- Yellow (0%)
- Blue (28%)



- Cyan (0%)
- Magenta (100%)
- Yellow (69%)
- Black (9%)



- Cyan (9%)
- Magenta (100%)
- Yellow (72%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 49, 81.625, 21.085 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, 81.625, 21.085 by changing the saturation by 10% instead.

 49, 81.625, 21.085

 49, 81.625, 21.085

 100, 81.625,
21.085

 39, 81.625, 21.085

 69, 81.625, 21.085

 29, 81.625, 21.085

 79, 81.625, 21.085

 19, 81.625, 21.085

 89, 81.625, 21.085

 9, 81.625, 21.085

 99, 81.625, 21.085

 0, 81.625, 21.085

 49, 81.625, 21.085

 49, 81.625, 21.085

 49, 81.600, 21.101

 50, 77.624, 15.671

 52, 72.542, 11.006

■ 55, 65.873, 7.268

■ 59, 57.750, 4.323

■ 63, 48.570, 1.994

■ 68, 38.793, 0.122

■ 74, 28.814,
358.584

■ 80, 18.917,
357.290

■ 86, 9.282, 356.162

Harmonies

Complementary

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



49, 81.625, 21.085



82, 66.958, 160.711

Rectangle

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



49, 81.625, 21.085



49, 81.625, 71.085



49, 81.625, 201.085



49, 81.625, 251.085

Sweetspot

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



49, 81.600, 21.101



81, 31.129, 358.606



43, 111.889, 316.701



40, 21.342, 359.225



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, 81.600, 21.101



54, 87.836, 21.429



50, 93.406, 42.687



45, 5.222, 356.102



37, 66.728, 20.034



7, 26.669, 7.930

Inverse Universe

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



49, 81.600, 21.101



54, 87.836, 21.429



71, 40.661, 232.506



45, 5.222, 356.102



37, 66.728, 20.034



7, 26.669, 7.930

Previews

White Background



This preview shows how the CIELCh color 49, 81.625, 21.085 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, 81.625, 21.085 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, 81.625, 21.085

Background



This preview shows how black text looks on a background with the CIELCh color 49, 81.625, 21.085.

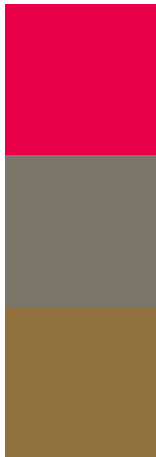


This preview shows how white text looks on a background with the CIELCh color 49, 81.625, 21.085.

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, 81.625, 21.085

Protanopia

50, 7.298, 92.499

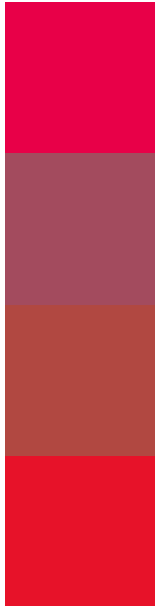
Deuteranopia

50, 33.912, 79.482



Tritanopia
49, 90.467, 37.852

Trichromacy



Original Color
49, 81.625, 21.085

Protanomaly
44, 38.861, 9.689

Deuteranomaly
45, 49.684, 31.550

Tritanomaly
49, 87.174, 32.731

Monochromacy



Original Color
49, 81.625, 21.085

Achromatopsia
33, 0.005, 296.813

Achromatomaly
34, 38.578, 4.418

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 49, 81.625, 21.085 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(232, 0, 72)` looks like.

```
.text, #text, p{  
    color:rgb(232, 0, 72)  
}
```

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(232, 0, 72) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(232, 0, 72) }
```

Border

The CSS property to change the border of an element to CIELCh 49, 81.625, 21.085 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(232, 0, 72) }
```

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

```
.border{ border-color:rgb(232, 0, 72) }
```

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

Here you see how a box with a 4 pixel rgb(232, 0, 72) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(232, 0, 72); -webkit-box-  
shadow:4px 4px 4px 4px rgb(232, 0, 72);  
box-shadow:4px 4px 4px 4px rgb(232, 0, 72)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 49, 81.625, 21.085 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(232, 0, 72) }
```

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

```
.background{ background-color: rgb(232, 0,  
72) }
```

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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