

Converting Colors

CIELCh(49, 90.821, 33.408)

Have a look what the booklet for
CIELCh(49, 90.821, 33.408) contains.

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Color

CIELCh(49, 90.546, 33.511)

Conversions

Conversions Part 1

Format	Color
Hex	EA0024
RGB	234, 0, 36
RGB Percent	92%, 0%, 14%
CMY	0.0828, 1.0000, 0.8591
CMYK	0.00, 1.00, 0.85, 0.08
HSL	351°, 100%, 46%
HSV	351°, 100%, 92%
XYZ	34.2107, 17.5941, 3.2561
YIQ	74.0700, 127.9080, 60.8040

Conversions

Conversions Part 2

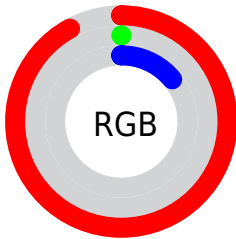
Format	Color
R_{YB}	234, 0, 36
Decimal	15335460
CIE Lab	49.00, 75.50, 49.99
CIE LCh	49, 90.546, 33.511
Yxy	17.5941, 0.6213, 0.3195
Android (android.graphics.Color)	4293525540 (0xFFEA0024)
YUV	74.0700, -18.7685, 140.2586
Hunter-Lab	41.9453, 72.1810, 24.7591

Details

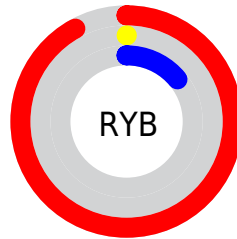
The CIELCh color **49, 90.546, 33.511** is a dark color, and the websafe version is hex **FF3333**. The color can be described as dark washed red. A complement of this color would be **83, 55.097, 175.554**, and the grayscale version is **32, 0.005, 296.813**.

A 20% lighter version of the original color is **61, 72.621, 32.349**, and **35, 76.349, 39.859** is the 20% darker color. If you saturate the color by 10%, you get **49, 90.528, 33.524**, and if you desaturate by 10%, it is **50, 84.019, 28.568**.

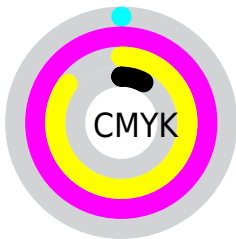
Distribution



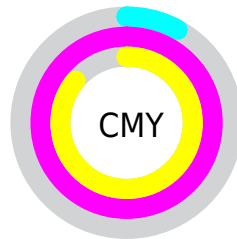
- Red (92%)
- Green (0%)
- Blue (14%)



- Red (92%)
- Yellow (0%)
- Blue (14%)



- Cyan (0%)
- Magenta (100%)
- Yellow (85%)
- Black (8%)



- Cyan (8%)
- Magenta (100%)
- Yellow (86%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 49, 90.546, 33.511 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, 90.546, 33.511 by changing the saturation by 10% instead.

 49, 90.546, 33.511

 49, 90.546, 33.511

 100, 90.546,
33.511

 39, 90.546, 33.511

 69, 90.546, 33.511

 29, 90.546, 33.511

 79, 90.546, 33.511

 19, 90.546, 33.511

 89, 90.546, 33.511

 9, 90.546, 33.511

 99, 90.546, 33.511

 0, 90.546, 33.511

 49, 90.546, 33.511

 49, 90.546, 33.511

 49, 90.528, 33.524

 50, 84.019, 28.568

 52, 76.465, 23.765

■ 55, 67.836, 19.685

■ 59, 58.316, 16.401

■ 63, 48.239, 13.812

■ 69, 37.982, 11.770

■ 74, 27.860, 10.141

■ 80, 18.089, 8.816

■ 86, 8.788, 7.698

Harmonies

Complementary

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



49, 90.546, 33.511



83, 55.097, 175.554

Rectangle

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



49, 90.546, 33.511



49, 90.546, 83.511



49, 90.546, 213.511



49, 90.546, 263.511

Sweetspot

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



49, 90.528, 33.524



80, 29.893, 10.162



49, 109.846, 321.801



40, 20.599, 10.811



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, 90.528, 33.524



53, 96.898, 33.773



55, 87.456, 48.595



46, 4.996, 7.641



38, 74.045, 32.634



7, 28.004, 16.397

Inverse Universe

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



49, 90.528, 33.524



53, 96.898, 33.773



61, 48.978, 262.920



46, 4.996, 7.641



38, 74.045, 32.634



7, 28.004, 16.397

Previews

White Background



This preview shows how the CIELCh color 49, 90.546, 33.511 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, 90.546, 33.511 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, 90.546, 33.511

Background



This preview shows how black text looks on a background with the CIELCh color 49, 90.546, 33.511.



This preview shows how white text looks on a background with the CIELCh color 49, 90.546, 33.511.

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, 90.546, 33.511

Protanopia

50, 34.622, 95.419

Deuteranopia

50, 56.444, 83.482



Tritanopia
49, 96.374, 40.836

Trichromacy



Original Color
49, 90.546, 33.511

Protanomaly
44, 49.251, 42.118

Deuteranomaly
45, 66.807, 50.754

Tritanomaly
49, 94.789, 38.780

Monochromacy



Original Color
49, 90.546, 33.511

Achromatopsia
31, 0.005, 296.813

Achromatomaly
32, 39.281, 16.957

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 49, 90.546, 33.511 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, 36)` looks like.

```
.text, #text, p{  
  color:rgb(234, 0, 36)  
}
```

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, 36) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(234, 0, 36) }
```

Border

The CSS property to change the border of an element to CIELCh 49, 90.546, 33.511 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, 36) }
```

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

```
.border{ border-color:rgb(234, 0, 36) }
```

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, 36) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(234, 0, 36); -webkit-box-  
shadow:4px 4px 4px 4px rgb(234, 0, 36);  
box-shadow:4px 4px 4px 4px rgb(234, 0, 36)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 49, 90.546, 33.511 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, 36) }
```

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

```
.background{ background-color: rgb(234, 0,  
36) }
```

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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