

Converting Colors

CIELCh(49, 90.512, 34.453)

Have a look what the booklet for
CIELCh(49, 90.512, 34.453) contains.

CIELCh(49, 90.610, 34.524)	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, 90.610, 34.524)

Conversions

Conversions Part 1

Format	Color
Hex	E90721
RGB	233, 7, 33
RGB Percent	91%, 3%, 13%
CMY	0.0861, 0.9719, 0.8705
CMYK	0.00, 0.97, 0.86, 0.09
HSL	353°, 94%, 47%
HSV	353°, 97%, 91%
XYZ	33.9681, 17.5941, 3.0463
YIQ	77.5380, 126.3500, 55.9980

Conversions

Conversions Part 2

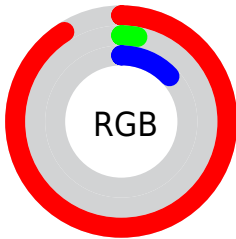
Format	Color
RYB	233, 7, 33
Decimal	15271713
CIELab	49.00, 74.65, 51.35
CIElCh	49, 90.610, 34.524
Yxy	17.5941, 0.6220, 0.3222
Android (android.graphics.Color)	4293461793 (0xFFE90721)
YUV	77.5380, -21.9572, 136.3402
Hunter-Lab	41.9453, 71.1484, 25.0557

Details

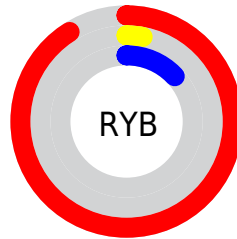
The CIELCh color **49, 90.610, 34.524** is a dark color, and the websafe version is hex **FF3333**. The color can be described as dark washed red. A complement of this color would be **83, 51.990, 180.645**, and the grayscale version is **33, 0.005, 296.813**.

A 20% lighter version of the original color is **62, 72.885, 34.061**, and **34, 75.996, 39.844** is the 20% darker color. If you saturate the color by 10%, you get **49, 92.562, 35.776**, and if you desaturate by 10%, it is **50, 83.448, 29.829**.

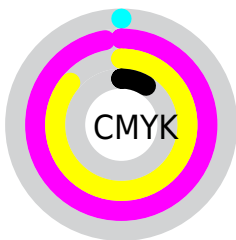
Distribution



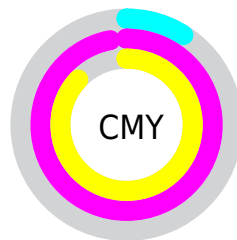
- Red (91%)
- Green (3%)
- Blue (13%)



- Red (91%)
- Yellow (3%)
- Blue (13%)



- Cyan (0%)
- Magenta (97%)
- Yellow (86%)
- Black (9%)



- Cyan (9%)
- Magenta (97%)
- Yellow (87%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 49, 90.610, 34.524 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, 90.610, 34.524 by changing the saturation by 10% instead.

 49, 90.610, 34.524

 49, 90.610, 34.524

 100, 90.610,
34.524

 39, 90.610, 34.524

 69, 90.610, 34.524

 29, 90.610, 34.524

 79, 90.610, 34.524

 19, 90.610, 34.524

 89, 90.610, 34.524

 9, 90.610, 34.524

 99, 90.610, 34.524

 0, 90.610, 34.524

 49, 90.610, 34.524

 49, 90.610, 34.524

 49, 92.562, 35.776

 50, 83.448, 29.829

 52, 74.997, 25.349

■ 56, 65.579, 21.550

■ 60, 55.487, 18.501

■ 65, 45.080, 16.103

■ 70, 34.707, 14.218

■ 76, 24.632, 12.720

■ 82, 15.021, 11.504

■ 88, 5.952, 10.462

Harmonies

Complementary

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



49, 90.610, 34.524



83, 51.990, 180.645

Rectangle

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



49, 90.610, 34.524



49, 90.610, 84.524



49, 90.610, 214.524



49, 90.610, 264.524

Sweetspot

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



49, 90.607, 34.526



81, 28.725, 13.025



51, 108.234, 323.757



40, 19.943, 13.656



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, 90.607, 34.526



53, 99.350, 36.001



57, 82.863, 52.103



46, 4.951, 10.722



38, 75.947, 35.004



7, 28.109, 18.027

Inverse Universe

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



49, 90.607, 34.526



53, 99.350, 36.001



59, 52.501, 269.264



46, 4.951, 10.722



38, 75.947, 35.004



7, 28.109, 18.027

Previews

White Background



This preview shows how the CIE LCh color 49, 90.610, 34.524 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, 90.610, 34.524 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, 90.610, 34.524

Background



This preview shows how black text looks on a background with the CIELCh color 49, 90.610, 34.524.



This preview shows how white text looks on a background with the CIELCh color 49, 90.610, 34.524.

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, 90.610, 34.524

Protanopia

50, 36.155, 95.606

Deuteranopia

49, 56.261, 83.944



Tritanopia
49, 96.049, 40.844

Trichromacy



Original Color
49, 90.610, 34.524

Protanomaly
44, 49.619, 45.423

Deuteranomaly
45, 66.031, 52.239

Tritanomaly
49, 94.434, 39.047

Monochromacy



Original Color
49, 90.610, 34.524

Achromatopsia
33, 0.005, 296.813

Achromatomaly
34, 37.998, 18.436

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 49, 90.610, 34.524 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, 7, 33)` looks like.

```
.text, #text, p{  
    color:rgb(233, 7, 33)  
}
```

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, 7, 33) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(233, 7, 33) }
```

Border

The CSS property to change the border of an element to CIELCh 49, 90.610, 34.524 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, 7, 33) }
```

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

```
.border{ border-color:rgb(233, 7, 33) }
```

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

Here you see how a box with a 4 pixel rgb(233, 7, 33) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(233, 7, 33); -webkit-box-  
shadow:4px 4px 4px 4px rgb(233, 7, 33);  
box-shadow:4px 4px 4px 4px rgb(233, 7, 33)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 49, 90.610, 34.524 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(233, 7, 33) }
```

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

```
.background{ background-color: rgb(233, 7,  
33) }
```

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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