

Converting Colors

CIELCh(49, 77.799, 0.671)

Have a look what the booklet for
CIELCh(49, 77.799, 0.671) contains.

CIELCh(49, 77.803, 0.728)	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, 77.803, 0.728)

Conversions

Conversions Part 1

Format	Color
Hex	E30076
RGB	227, 0, 118
RGB Percent	89%, 0%, 46%
CMY	0.1105, 1.0000, 0.5378
CMYK	0.00, 1.00, 0.48, 0.11
HSL	329°, 100%, 44%
HSV	329°, 100%, 89%
XYZ	34.8791, 17.5941, 18.6545
YIQ	81.3250, 97.4140, 84.8220

Conversions

Conversions Part 2

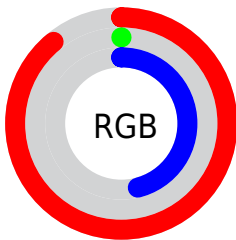
Format	Color
R_{YB}	227, 0, 118
Decimal	14876790
CIE _{Lab}	49.00, 77.80, 0.99
CIE _{LCh}	49, 77.803, 0.728
Yxy	17.5941, 0.4904, 0.2474
Android (android.graphics.Color)	4293066870 (0xFFE30076)
YUV	81.3250, 18.0808, 127.7570
Hunter-Lab	41.9453, 75.0253, 2.9935

Details

The CIELCh color **49, 77.803, 0.728** is a dark color, and the websafe version is hex **CC0066**. The color can be described as dark washed rose. A complement of this color would be **80, 83.722, 147.852**, and the grayscale version is **34, 0.005, 296.813**.

A 20% lighter version of the original color is **63, 68.535, 353.165**, and **35, 61.001, 8.844** is the 20% darker color. If you saturate the color by 10%, you get **49, 77.755, 0.746**, and if you desaturate by 10%, it is **50, 76.631, 356.950**.

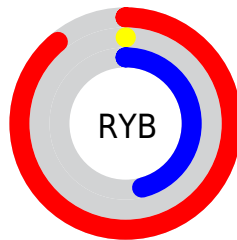
Distribution



Red (89%)

Green (0%)

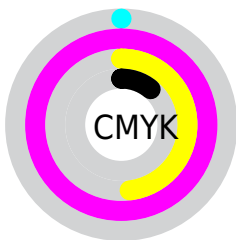
Blue (46%)



Red (89%)

Yellow (0%)

Blue (46%)

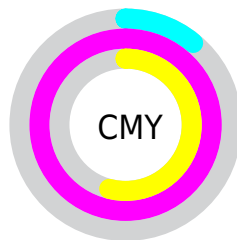


Cyan (0%)

Magenta (100%)

Yellow (48%)

Black (11%)



Cyan (11%)


Magenta (100%)

Yellow (54%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 49, 77.803, 0.728 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, 77.803, 0.728 by changing the saturation by 10% instead.

 49, 77.803, 0.728  49, 77.803, 0.728


 100, 77.803, 0.728  39, 77.803, 0.728



 69, 77.803, 0.728  29, 77.803, 0.728


 79, 77.803, 0.728  19, 77.803, 0.728

 89, 77.803, 0.728  9, 77.803, 0.728

 99, 77.803, 0.728  0, 77.803, 0.728

 49, 77.803, 0.728  49, 77.803, 0.728

 49, 77.755, 0.746  50, 76.631,
356.950

 52, 73.595,
353.857

■ 55, 68.241,
351.412

■ 58, 60.843,
349.456

■ 63, 51.907,
347.855

■ 68, 41.979,
346.510

■ 73, 31.528,
345.349

■ 78, 20.906,
344.324

■ 84, 10.350,
343.393

Harmonies

Complementary

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



49, 77.803, 0.728



80, 83.722, 147.852

Rectangle

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



49, 77.803, 0.728



49, 77.803, 50.728



49, 77.803, 180.728



49, 77.803, 230.728

Sweetspot

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



49, 77.755, 0.746



81, 34.670, 345.370



35, 115.208, 311.018



40, 23.661, 345.845



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, 77.755, 0.746



55, 84.898, 1.043



47, 94.364, 38.953



44, 5.822, 343.342



38, 64.422, 359.989



6, 26.639, 353.267

Inverse Universe

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



49, 77.755, 0.746



55, 84.898, 1.043



82, 47.118, 191.334



44, 5.822, 343.342



38, 64.422, 359.989



6, 26.639, 353.267

Previews

White Background



This preview shows how the CIELCh color 49, 77.803, 0.728 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, 77.803, 0.728 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

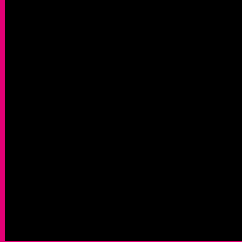
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

CIELCh 49, 77.803, 0.728

Background



This preview shows how black text looks on a background with the CIELCh color 49, 77.803, 0.728.



This preview shows how white text looks on a background with the CIELCh color 49, 77.803, 0.728.

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, 77.803, 0.728

Protanopia

50, 31.214, 284.712

Deuteranopia

50, 8.794, 43.543



Tritanopia
49, 79.021, 33.663

Trichromacy



Original Color
49, 77.803, 0.728



Protanomaly
43, 51.329, 325.461



Deuteranomaly
44, 43.015, 355.535



Tritanomaly
49, 76.202, 21.429

Monochromacy



Original Color
49, 77.803, 0.728



Achromatopsia
34, 0.005, 296.813



Achromatomaly
35, 40.402, 349.724

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 49, 77.803, 0.728 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(227, 0, 118)` looks like.

```
.text, #text, p{  
    color:rgb(227, 0, 118)  
}
```

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(227, 0, 118) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(227, 0, 118) }
```

Border

The CSS property to change the border of an element to CIELCh 49, 77.803, 0.728 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(227, 0, 118) }
```

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

```
.border{ border-color:rgb(227, 0, 118) }
```

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

Here you see how a box with a 4 pixel `rgb(227, 0, 118)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(227, 0, 118); -webkit-box-  
shadow:4px 4px 4px 4px rgb(227, 0, 118);  
box-shadow:4px 4px 4px 4px rgb(227, 0,  
118) }
```

Background

The CSS property to change the background color of an element to CIELCh 49, 77.803, 0.728 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(227, 0, 118) }
```

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

```
.background{ background-color: rgb(227, 0,  
118) }
```

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