

Converting Colors

CIELCh(47, 80.609, 23.285)

Have a look what the booklet for
CIELCh(47, 80.609, 23.285) contains.

CIELCh(47, 80.309, 23.444)	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(47, 80.309, 23.444)

Conversions

Conversions Part 1

Format	Color
Hex	DF003F
RGB	223, 0, 63
RGB Percent	87%, 0%, 25%
CMY	0.1259, 1.0000, 0.7533
CMYK	0.00, 1.00, 0.72, 0.13
HSL	343°, 100%, 44%
HSV	343°, 100%, 87%
XYZ	31.2866, 16.0195, 6.1339
YIQ	73.8590, 112.6850, 66.8690

Conversions

Conversions Part 2

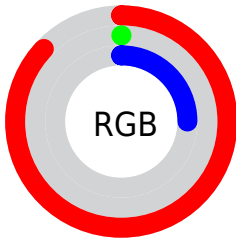
Format	Color
RYB	223, 0, 63
Decimal	14614591
CIELab	47.00, 73.68, 31.95
CIELCh	47, 80.309, 23.444
Yxy	16.0195, 0.5855, 0.2998
Android (android.graphics.Color)	4292804671 (0xFFDF003F)
YUV	73.8590, -5.3535, 130.7967
Hunter-Lab	40.0243, 69.4891, 18.9305

Details

The CIELCh color **47, 80.309, 23.444** 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 **79, 62.668, 163.008**, and the grayscale version is **31, 0.005, 296.813**.

A 20% lighter version of the original color is **62, 67.748, 20.683**, and **33, 67.570, 33.069** is the 20% darker color. If you saturate the color by 10%, you get **47, 80.286, 23.461**, and if you desaturate by 10%, it is **48, 75.918, 18.018**.

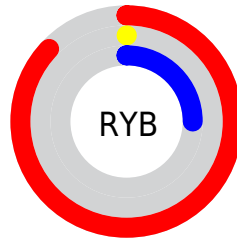
Distribution



Red (87%)

Green (0%)

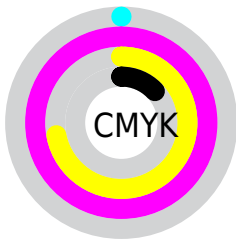
Blue (25%)



Red (87%)

Yellow (0%)

Blue (25%)

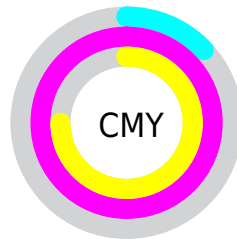


Cyan (0%)

Magenta (100%)

Yellow (72%)

Black (13%)



Cyan (13%)

Magenta (100%)

Yellow (75%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 47, 80.309, 23.444 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 47, 80.309, 23.444 by changing the saturation by 10% instead.

 47, 80.309, 23.444

 47, 80.309, 23.444

 100, 80.309,
23.444

 37, 80.309, 23.444

 67, 80.309, 23.444

 27, 80.309, 23.444

 77, 80.309, 23.444

 17, 80.309, 23.444

 87, 80.309, 23.444

 7, 80.309, 23.444

 97, 80.309, 23.444

 0, 80.309, 23.444

 47, 80.309, 23.444

 47, 80.309, 23.444

 47, 80.286, 23.461

 48, 75.918, 18.018

 50, 70.578, 13.272

■ 53, 63.815, 9.443

■ 56, 55.751, 6.419

■ 61, 46.756, 4.029

■ 66, 37.255, 2.115

■ 71, 27.616, 0.549

■ 77, 18.099,
359.237

■ 83, 8.866, 358.100

Harmonies

Complementary

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



47, 80.309, 23.444



79, 62.668, 163.008

Rectangle

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



47, 80.309, 23.444



47, 80.309, 73.444



47, 80.309, 203.444



47, 80.309, 253.444

Sweetspot

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



47, 80.286, 23.461



80, 30.812, 0.581



42, 107.907, 317.785



40, 21.142, 1.213



0, 0.000, 0.000



53, 0.007, 296.813

Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



47, 80.286, 23.461



54, 89.147, 23.934



49, 89.369, 43.725



44, 5.056, 358.040



37, 66.886, 22.469



6, 25.331, 8.630

Inverse Universe

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



47, 80.286, 23.461



54, 89.147, 23.934



66, 40.164, 239.754



44, 5.056, 358.040



37, 66.886, 22.469



6, 25.331, 8.630

Previews

White Background



This preview shows how the CIELCh color 47, 80.309, 23.444 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 47, 80.309, 23.444 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 47, 80.309, 23.444

Background



This preview shows how black text looks on a background with the CIELCh color 47, 80.309, 23.444.



This preview shows how white text looks on a background with the CIELCh color 47, 80.309, 23.444.

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

47, 80.309, 23.444

Protanopia

48, 11.556, 93.390

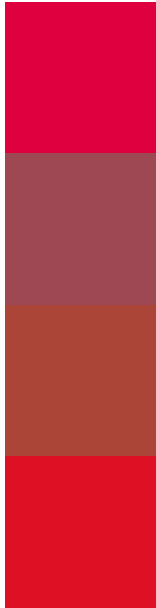
Deuteranopia

48, 36.130, 80.309



Tritanopia
47, 88.551, 38.263

Trichromacy



Original Color
47, 80.309, 23.444

Protanomaly
42, 37.984, 16.285

Deuteranomaly
43, 49.789, 35.308

Tritanomaly
47, 85.372, 33.635

Monochromacy



Original Color
47, 80.309, 23.444

Achromatopsia
31, 0.005, 296.813

Achromatomaly
32, 37.383, 6.459

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 47, 80.309, 23.444 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(223, 0, 63)` looks like.

```
.text, #text, p{  
    color:rgb(223, 0, 63)  
}
```

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(223, 0, 63) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(223, 0, 63) }
```

Border

The CSS property to change the border of an element to CIELCh 47, 80.309, 23.444 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(223, 0, 63) }
```

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

```
.border{ border-color:rgb(223, 0, 63) }
```

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

Here you see how a box with a 4 pixel rgb(223, 0, 63) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(223, 0, 63); -webkit-box-  
shadow:4px 4px 4px 4px rgb(223, 0, 63);  
box-shadow:4px 4px 4px 4px rgb(223, 0, 63)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 47, 80.309, 23.444 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(223, 0, 63) }
```

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

```
.background{ background-color: rgb(223, 0,  
63) }
```

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