

Converting Colors

CIELCh(48, 76.168, 23.899)

Have a look what the booklet for
CIELCh(48, 76.168, 23.899) contains.

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Color

CIELCh(48, 76.103, 23.668)

Conversions

Conversions Part 1

Format	Color
Hex	DD1F43
RGB	221, 31, 67
RGB Percent	87%, 12%, 26%
CMY	0.1327, 0.8774, 0.7368
CMYK	0.00, 0.86, 0.70, 0.13
HSL	349°, 75%, 49%
HSV	349°, 86%, 87%
XYZ	31.3771, 16.7945, 6.9149
YIQ	91.9140, 101.6840, 51.4760

Conversions

Conversions Part 2

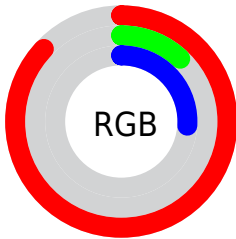
Format	Color
RYB	221, 31, 67
Decimal	14491459
CIELab	48.00, 69.70, 30.55
CIElCh	48, 76.103, 23.668
Yxy	16.7945, 0.5696, 0.3049
Android (android.graphics.Color)	4292681539 (0xFFDD1F43)
YUV	91.9140, -12.2826, 113.2084
Hunter-Lab	40.9810, 64.9517, 18.6825

Details

The CIELCh color **48, 76.103, 23.668** 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, 52.158, 174.233**, and the grayscale version is **39, 0.006, 296.813**.

A 20% lighter version of the original color is **63, 64.285, 21.002**, and **32, 65.996, 31.643** is the 20% darker color. If you saturate the color by 10%, you get **47, 82.207, 28.871**, and if you desaturate by 10%, it is **50, 68.928, 19.139**.

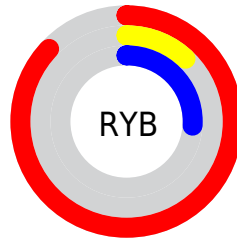
Distribution



Red (87%)

Green (12%)

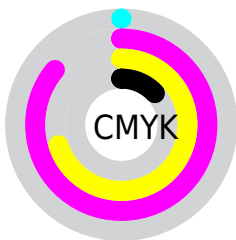
Blue (26%)



Red (87%)

Yellow (12%)

Blue (26%)

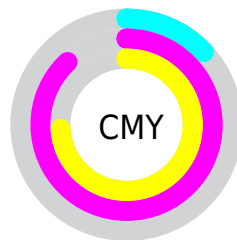


Cyan (0%)

Magenta (86%)

Yellow (70%)

Black (13%)



Cyan (13%)

Magenta (88%)

Yellow (74%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 48, 76.103, 23.668 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 48, 76.103, 23.668 by changing the saturation by 10% instead.

 48, 76.103, 23.668

 48, 76.103, 23.668

 100, 76.103,
23.668

 38, 76.103, 23.668

 68, 76.103, 23.668

 28, 76.103, 23.668

 78, 76.103, 23.668

 18, 76.103, 23.668

 88, 76.103, 23.668

 8, 76.103, 23.668

 98, 76.103, 23.668

 0, 76.103, 23.668

 48, 76.103, 23.668

 48, 76.103, 23.668

 47, 82.207, 28.871

 50, 68.928, 19.139

 46, 84.602, 30.966

 53, 60.689, 15.442

■ 57, 51.611, 12.513

■ 62, 42.054, 10.201

■ 67, 32.378, 8.360

■ 73, 22.859, 6.867

■ 79, 13.676, 5.628

■ 85, 4.924, 4.529

■ 91, 3.363, 183.929

Harmonies

Complementary

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



48, 76.103, 23.668



79, 52.158, 174.233

Rectangle

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



48, 76.103, 23.668



48, 76.103, 73.668



48, 76.103, 203.668



48, 76.103, 253.668

Sweetspot

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



48, 76.100, 23.670



83, 25.810, 6.913



47, 100.997, 321.212



42, 17.635, 7.405



0, 0.000, 0.000



53, 0.007, 296.813

Same Dimension

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



48, 76.100, 23.670



53, 94.622, 31.426



55, 74.571, 48.455



43, 4.776, 4.918



36, 69.939, 30.007



5, 23.736, 12.107

Inverse Universe

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



48, 76.100, 23.670



53, 94.622, 31.426



63, 40.765, 249.909



43, 4.776, 4.918



36, 69.939, 30.007



5, 23.736, 12.107

Previews

White Background



This preview shows how the CIELCh color 48, 76.103, 23.668 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 48, 76.103, 23.668 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 48, 76.103, 23.668

Background



This preview shows how black text looks on a background with the CIELCh color 48, 76.103, 23.668.



This preview shows how white text looks on a background with the CIELCh color 48, 76.103, 23.668.

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

48, 76.103, 23.668

Protanopia

48, 11.412, 95.538

Deuteranopia

48, 34.112, 79.265



Tritanopia
48, 81.879, 35.452

Trichromacy



Original Color
48, 76.103, 23.668

Protanomaly
45, 32.539, 24.142

Deuteranomaly
45, 45.246, 39.539

Tritanomaly
48, 79.389, 31.500

Monochromacy



Original Color
48, 76.103, 23.668

Achromatopsia
39, 0.006, 296.813

Achromatomaly
39, 31.245, 10.670

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 48, 76.103, 23.668 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(221, 31, 67)` looks like.

```
.text, #text, p{  
    color:rgb(221, 31, 67)  
}
```

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(221, 31, 67) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(221, 31, 67) }
```

Border

The CSS property to change the border of an element to CIELCh 48, 76.103, 23.668 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(221, 31, 67) }
```

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

```
.border{ border-color:rgb(221, 31, 67) }
```

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

Here you see how a box with a 4 pixel `rgb(221, 31, 67)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(221, 31, 67); -webkit-box-  
shadow:4px 4px 4px 4px rgb(221, 31, 67);  
box-shadow:4px 4px 4px 4px rgb(221, 31,  
67) }
```

Background

The CSS property to change the background color of an element to CIELCh 48, 76.103, 23.668 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(221, 31, 67) }
```

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

```
.background{ background-color: rgb(221, 31,  
67) }
```

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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