

Converting Colors

CIELCh(46, 81.110, 27.852)

Have a look what the booklet for
CIELCh(46, 81.110, 27.852) contains.

CIELCh(46, 80.969, 27.660)	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(46, 80.969, 27.660)

Conversions

Conversions Part 1

Format	Color
Hex	DA0533
RGB	218, 5, 51
RGB Percent	85%, 2%, 20%
CMY	0.1445, 0.9821, 0.7996
CMYK	0.00, 0.98, 0.77, 0.14
HSL	347°, 96%, 44%
HSV	347°, 98%, 86%
XYZ	29.6116, 15.2687, 4.5314
YIQ	73.9310, 112.1820, 59.4620

Conversions

Conversions Part 2

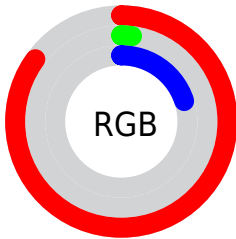
Format	Color
RYB	218, 5, 51
Decimal	14288179
CIELab	46.00, 71.72, 37.59
CIElCh	46, 80.969, 27.660
Yxy	15.2687, 0.5993, 0.3090
Android (android.graphics.Color)	4292478259 (0xFFDA0533)
YUV	73.9310, -11.3050, 126.3485
Hunter-Lab	39.0751, 66.8881, 20.4769

Details

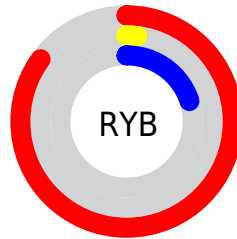
The CIELCh color **46, 80.969, 27.660** is a dark color, and the websafe version is hex **CC0033**. The color can be described as dark washed red. A complement of this color would be **78, 56.262, 169.231**, and the grayscale version is **31, 0.005, 296.813**.

A 20% lighter version of the original color is **61, 69.919, 25.712**, and **32, 69.374, 37.439** is the 20% darker color. If you saturate the color by 10%, you get **46, 82.101, 28.737**, and if you desaturate by 10%, it is **47, 75.518, 22.320**.

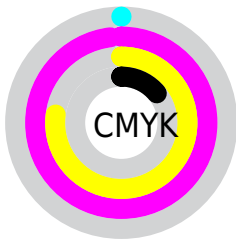
Distribution



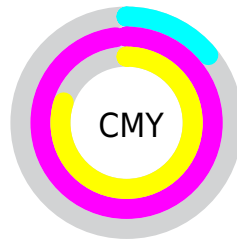
- Red (85%)
- Green (2%)
- Blue (20%)



- Red (85%)
- Yellow (2%)
- Blue (20%)



- Cyan (0%)
- Magenta (98%)
- Yellow (77%)
- Black (14%)



- Cyan (14%)
- Magenta (98%)
- Yellow (80%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 46, 80.969, 27.660 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 46, 80.969, 27.660 by changing the saturation by 10% instead.

 46, 80.969, 27.660

 46, 80.969, 27.660

 100, 80.969,
27.660

 36, 80.969, 27.660

 66, 80.969, 27.660

 26, 80.969, 27.660

 76, 80.969, 27.660

 16, 80.969, 27.660

 86, 80.969, 27.660

 6, 80.969, 27.660

 96, 80.969, 27.660

 0, 80.969, 27.660

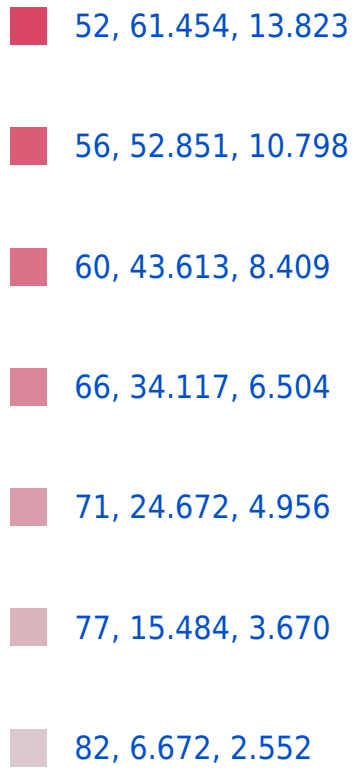
 46, 80.969, 27.660

 46, 80.969, 27.660

 46, 82.101, 28.737

 47, 75.518, 22.320

 49, 69.068, 17.639



Harmonies

Complementary

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



46, 80.969, 27.660



78, 56.262, 169.231

Rectangle

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



46, 80.969, 27.660



46, 80.969, 77.660



46, 80.969, 207.660



46, 80.969, 257.660

Sweetspot

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



46, 80.966, 27.662



81, 29.172, 5.147



44, 104.693, 319.578



40, 20.179, 5.793



0, 0.000, 0.000



53, 0.007, 296.813

Same Dimension

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



46, 80.966, 27.662



54, 92.783, 29.268



50, 84.397, 45.689



43, 4.826, 2.717



36, 68.639, 27.790



5, 23.759, 10.849

Inverse Universe

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



46, 80.966, 27.662



54, 92.783, 29.268



62, 41.259, 249.252



43, 4.826, 2.717



36, 68.639, 27.790



5, 23.759, 10.849

Previews

White Background



This preview shows how the CIELCh color 46, 80.969, 27.660 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 CIE LCh color 46, 80.969, 27.660 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 46, 80.969, 27.660

Background



This preview shows how black text looks on a background with the CIELCh color 46, 80.969, 27.660.



This preview shows how white text looks on a background with the CIELCh color 46, 80.969, 27.660.

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

46, 80.908, 27.709

Protanopia

47, 20.334, 95.788

Deuteranopia

47, 41.624, 81.749



Tritanopia
46, 89.205, 39.312

Trichromacy



Original Color
46, 80.908, 27.709

Protanomaly
41, 39.630, 28.990

Deuteranomaly
42, 52.687, 41.780

Tritanomaly
46, 86.620, 36.100

Monochromacy



Original Color
46, 80.908, 27.709

Achromatopsia
31, 0.005, 296.813

Achromatomaly
32, 35.630, 10.745

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 46, 80.969, 27.660 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(218, 5, 51)` looks like.

```
.text, #text, p{  
    color:rgb(218, 5, 51)  
}
```

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(218, 5, 51) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(218, 5, 51) }
```

Border

The CSS property to change the border of an element to CIELCh 46, 80.969, 27.660 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(218, 5, 51) }
```

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

```
.border{ border-color:rgb(218, 5, 51) }
```

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

Here you see how a box with a 4 pixel `rgb(218, 5, 51)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(218, 5, 51); -webkit-box-  
shadow:4px 4px 4px 4px rgb(218, 5, 51);  
box-shadow:4px 4px 4px 4px rgb(218, 5, 51)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 46, 80.969, 27.660 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(218, 5, 51) }
```

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

```
.background{ background-color: rgb(218, 5,  
51) }
```

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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