

Converting Colors

CIELCh(45, 77.728, 23.054)

Have a look what the booklet for
CIELCh(45, 77.728, 23.054) contains.

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Color

CIELCh(45, 77.678, 23.063)

Conversions

Conversions Part 1

Format	Color
Hex	D6003D
RGB	214, 0, 61
RGB Percent	84%, 0%, 24%
CMY	0.1624, 1.0000, 0.7619
CMYK	0.00, 1.00, 0.72, 0.16
HSL	343°, 100%, 42%
HSV	343°, 100%, 84%
XYZ	28.4334, 14.5417, 5.6830
YIQ	70.9400, 107.9630, 64.3390

Conversions

Conversions Part 2

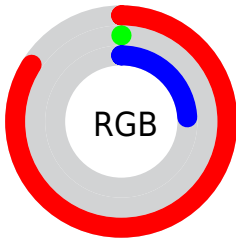
Format	Color
RYB	214, 0, 61
Decimal	14024765
CIELab	45.00, 71.47, 30.43
CIElCh	45, 77.678, 23.063
Yxy	14.5417, 0.5844, 0.2989
Android (android.graphics.Color)	4292214845 (0xFFD6003D)
YUV	70.9400, -4.9004, 125.4636
Hunter-Lab	38.1336, 66.3607, 17.8577

Details

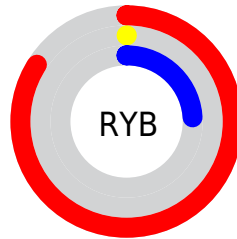
The CIELCh color **45, 77.678, 23.063** is a dark color, and the websafe version is hex **CC0033**. The color can be described as dark washed red. A complement of this color would be **76, 60.789, 162.906**, and the grayscale version is **30, 0.005, 296.813**.

A 20% lighter version of the original color is **61, 68.914, 20.779**, and **31, 64.779, 33.122** is the 20% darker color. If you saturate the color by 10%, you get **45, 77.595, 23.125**, and if you desaturate by 10%, it is **46, 73.371, 17.727**.

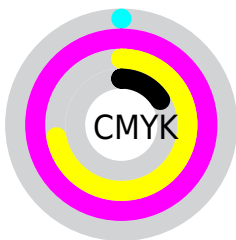
Distribution



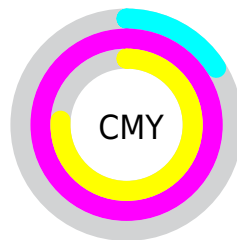
- Red (84%)
- Green (0%)
- Blue (24%)



- Red (84%)
- Yellow (0%)
- Blue (24%)



- Cyan (0%)
- Magenta (100%)
- Yellow (72%)
- Black (16%)



- Cyan (16%)
- Magenta (100%)
- Yellow (76%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 45, 77.678, 23.063 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 45, 77.678, 23.063 by changing the saturation by 10% instead.

 45, 77.678, 23.063

 45, 77.678, 23.063

 100, 77.678,
23.063

 35, 77.678, 23.063

 65, 77.678, 23.063

 25, 77.678, 23.063

 75, 77.678, 23.063

 15, 77.678, 23.063

 85, 77.678, 23.063

 5, 77.678, 23.063

 95, 77.678, 23.063

 0, 77.678, 23.063

 45, 77.678, 23.063

 45, 77.678, 23.063

 45, 77.595, 23.125

 46, 73.371, 17.727

 48, 68.211, 13.020

■ 51, 61.671, 9.225

■ 54, 53.876, 6.227

■ 59, 45.184, 3.856

■ 63, 36.005, 1.954

■ 69, 26.692, 0.397

■ 74, 17.496,
359.092

■ 80, 8.573, 357.959

Harmonies

Complementary

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



45, 77.678, 23.063



76, 60.789, 162.906

Rectangle

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



45, 77.678, 23.063



45, 77.678, 73.063



45, 77.678, 203.063



45, 77.678, 253.063

Sweetspot

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



45, 77.595, 23.125



80, 30.833, 0.441



40, 104.816, 317.273



40, 21.155, 1.072



0, 0.000, 0.000



53, 0.007, 296.813

Same Dimension

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



45, 77.595, 23.125



54, 89.048, 23.761



47, 87.092, 43.270



42, 4.871, 357.896



36, 65.328, 22.156



5, 22.230, 7.022

Inverse Universe

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



45, 77.595, 23.125



54, 89.048, 23.761



65, 38.474, 235.985



42, 4.871, 357.896



36, 65.328, 22.156



5, 22.230, 7.022

Previews

White Background



This preview shows how the CIELCh color 45, 77.678, 23.063 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 45, 77.678, 23.063 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 45, 77.678, 23.063

Background



This preview shows how black text looks on a background with the CIELCh color 45, 77.678, 23.063.



This preview shows how white text looks on a background with the CIELCh color 45, 77.678, 23.063.

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

45, 77.678, 23.063

Protanopia

46, 11.080, 92.614

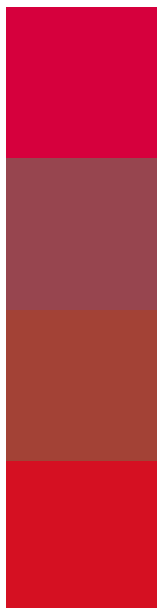
Deuteranopia

46, 34.666, 79.900



Tritanopia
45, 85.715, 38.249

Trichromacy



Original Color
45, 77.678, 23.063

Protanomaly
40, 36.948, 16.846

Deuteranomaly
41, 48.039, 34.997

Tritanomaly
45, 82.768, 33.676

Monochromacy



Original Color
45, 77.678, 23.063

Achromatopsia
30, 0.005, 296.813

Achromatomaly
31, 36.257, 6.574

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 77.678, 23.063 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(214, 0, 61)` looks like.

```
.text, #text, p{  
    color:rgb(214, 0, 61)  
}
```

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(214, 0, 61) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(214, 0, 61) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 77.678, 23.063 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(214, 0, 61) }
```

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

```
.border{ border-color:rgb(214, 0, 61) }
```

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

Here you see how a box with a 4 pixel `rgb(214, 0, 61)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(214, 0, 61); -webkit-box-  
shadow:4px 4px 4px 4px rgb(214, 0, 61);  
box-shadow:4px 4px 4px 4px rgb(214, 0, 61)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 45, 77.678, 23.063 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(214, 0, 61) }
```

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

```
.background{ background-color: rgb(214, 0,  
61) }
```

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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