

Converting Colors

CIELCh(45, 77.446, 21.952)

Have a look what the booklet for
CIELCh(45, 77.446, 21.952) contains.

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Color

CIELCh(45, 77.297, 22.229)

Conversions

Conversions Part 1

Format	Color
Hex	D5003F
RGB	213, 0, 63
RGB Percent	84%, 0%, 25%
CMY	0.1628, 1.0000, 0.7543
CMYK	0.00, 1.00, 0.71, 0.16
HSL	342°, 100%, 42%
HSV	342°, 100%, 84%
XYZ	28.4545, 14.5417, 5.9582
YIQ	70.8690, 106.7250, 64.7490

Conversions

Conversions Part 2

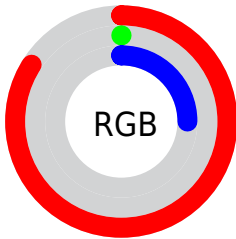
Format	Color
R_{YB}	213, 0, 63
Decimal	13959231
CIE _{Lab}	45.00, 71.55, 29.24
CIE _{LCh}	45, 77.297, 22.229
Yxy	14.5417, 0.5812, 0.2970
Android (android.graphics.Color)	4292149311 (0xFFD5003F)
YUV	70.8690, -3.8794, 124.6489
Hunter-Lab	38.1336, 66.4594, 17.4297

Details

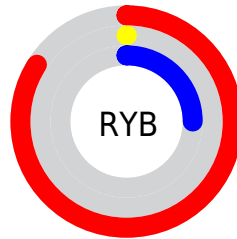
The CIELCh color **45, 77.297, 22.229** is a dark color, and the websafe version is hex **CC0033**. The color can be described as dark washed red. A complement of this color would be **76, 61.484, 162.155**, and the grayscale version is **30, 0.005, 296.813**.

A 20% lighter version of the original color is **61, 68.659, 19.877**, and **31, 63.843, 32.169** is the 20% darker color. If you saturate the color by 10%, you get **45, 77.193, 22.305**, and if you desaturate by 10%, it is **46, 73.123, 16.921**.

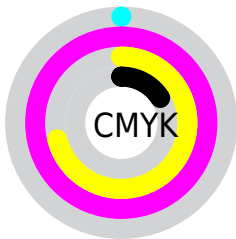
Distribution



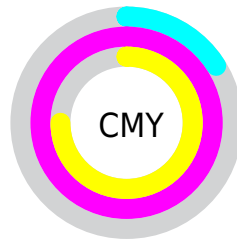
- Red (84%)
- Green (0%)
- Blue (25%)



- Red (84%)
- Yellow (0%)
- Blue (25%)



- Cyan (0%)
- Magenta (100%)
- Yellow (71%)
- Black (16%)



- Cyan (16%)
- Magenta (100%)
- Yellow (75%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 45, 77.297, 22.229 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, 77.297, 22.229 by changing the saturation by 10% instead.

 45, 77.297, 22.229

 45, 77.297, 22.229

 100, 77.297,
22.229

 35, 77.297, 22.229

 65, 77.297, 22.229

 25, 77.297, 22.229

 75, 77.297, 22.229

 15, 77.297, 22.229

 85, 77.297, 22.229

 5, 77.297, 22.229

 95, 77.297, 22.229

 0, 77.297, 22.229

 45, 77.297, 22.229

 45, 77.297, 22.229

 45, 77.193, 22.305

 46, 73.123, 16.921

 48, 68.090, 12.248

■ 51, 61.643, 8.490

■ 54, 53.908, 5.523

■ 59, 45.251, 3.175

■ 63, 36.086, 1.289

■ 69, 26.770,
359.743

■ 74, 17.557,
358.444

■ 80, 8.607, 357.314

Harmonies

Complementary

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



45, 77.297, 22.229



76, 61.484, 162.155

Rectangle

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



45, 77.297, 22.229



45, 77.297, 72.229



45, 77.297, 202.229



45, 77.297, 252.229

Sweetspot

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



45, 77.193, 22.305



80, 30.934, 359.786



40, 104.780, 317.273



40, 21.218, 0.413



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, 77.193, 22.305



54, 88.600, 22.944



47, 87.061, 43.271



42, 4.892, 357.252



36, 65.033, 21.339



5, 22.257, 6.565

Inverse Universe

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



45, 77.193, 22.305



54, 88.600, 22.944



65, 38.461, 235.984



42, 4.892, 357.252



36, 65.033, 21.339



5, 22.257, 6.565

Previews

White Background



This preview shows how the CIELCh color 45, 77.297, 22.229 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 45, 77.297, 22.229 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, 77.297, 22.229

Background



This preview shows how black text looks on a background with the CIELCh color 45, 77.297, 22.229.



This preview shows how white text looks on a background with the CIELCh color 45, 77.297, 22.229.

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, 76.963, 22.087

Protanopia

46, 9.248, 92.593

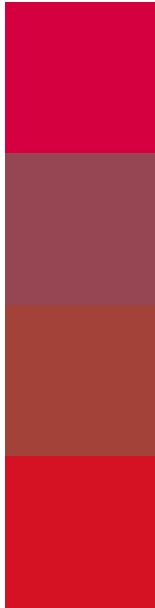
Deuteranopia

46, 33.887, 80.397



Tritanopia
46, 85.375, 38.130

Trichromacy



Original Color
45, 76.963, 22.087

Protanomaly
40, 36.361, 13.839

Deuteranomaly
41, 47.490, 33.768

Tritanomaly
45, 82.157, 33.127

Monochromacy



Original Color
45, 76.963, 22.087

Achromatopsia
30, 0.005, 296.813

Achromatomaly
31, 36.302, 5.588

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 77.297, 22.229 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(213, 0, 63)` looks like.

```
.text, #text, p{  
    color:rgb(213, 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(213, 0, 63) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(213, 0, 63) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 77.297, 22.229 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(213, 0, 63) }
```

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

```
.border{ border-color:rgb(213, 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(213, 0, 63)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(213, 0, 63); -webkit-box-  
shadow:4px 4px 4px 4px rgb(213, 0, 63);  
box-shadow:4px 4px 4px 4px rgb(213, 0, 63)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 45, 77.297, 22.229 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(213, 0, 63) }
```

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

```
.background{ background-color: rgb(213, 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](#).

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