

Converting Colors

CIELCh(45, 76.661, 20.572)

Have a look what the booklet for
CIELCh(45, 76.661, 20.572) contains.

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Color

CIELCh(45, 76.431, 20.809)

Conversions

Conversions Part 1

Format	Color
Hex	D50042
RGB	213, 0, 66
RGB Percent	84%, 0%, 26%
CMY	0.1647, 0.9997, 0.7412
CMYK	0.00, 1.00, 0.69, 0.16
HSL	341°, 100%, 42%
HSV	341°, 100%, 84%
XYZ	28.4273, 14.5417, 6.4638
YIQ	71.2110, 105.7620, 65.6820

Conversions

Conversions Part 2

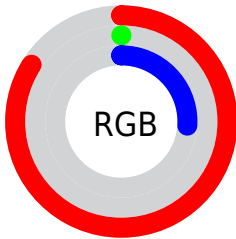
Format	Color
R_{YB}	213, 0, 66
Decimal	13959234
CIE Lab	45.00, 71.45, 27.15
CIE LCh	45, 76.431, 20.809
Yxy	14.5417, 0.5751, 0.2942
Android (android.graphics.Color)	4292149314 (0xFFD50042)
YUV	71.2110, -2.5690, 124.3490
Hunter-Lab	38.1336, 66.3318, 16.6436

Details

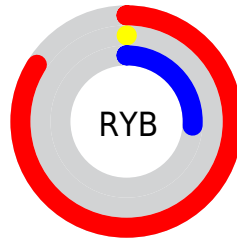
The CIELCh color **45, 76.431, 20.809** is a dark color, and the websafe version is hex **CC0033**. The color can be described as dark washed red. A complement of this color would be **76, 62.638, 160.881**, and the grayscale version is **30, 0.005, 296.813**.

A 20% lighter version of the original color is **61, 68.210, 18.052**, and **31, 63.659, 31.371** is the 20% darker color. If you saturate the color by 10%, you get **45, 76.442, 20.831**, and if you desaturate by 10%, it is **46, 72.630, 15.467**.

Distribution



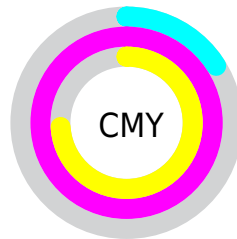
- Red (84%)
- Green (0%)
- Blue (26%)



- Red (84%)
- Yellow (0%)
- Blue (26%)



- Cyan (0%)
- Magenta (100%)
- Yellow (69%)
- Black (16%)



- Cyan (16%)
- Magenta (100%)
- Yellow (74%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 45, 76.431, 20.809 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, 76.431, 20.809 by changing the saturation by 10% instead.

 45, 76.431, 20.809

 45, 76.431, 20.809

 100, 76.431,
20.809

 35, 76.431, 20.809

 65, 76.431, 20.809

 25, 76.431, 20.809

 75, 76.431, 20.809

 15, 76.431, 20.809

 85, 76.431, 20.809

 5, 76.431, 20.809

 95, 76.431, 20.809

 0, 76.431, 20.809

 45, 76.431, 20.809

 45, 76.431, 20.809

 45, 76.442, 20.831

 46, 72.630, 15.467

 48, 67.814, 10.867

■ 51, 61.523, 7.182

■ 54, 53.894, 4.275

■ 58, 45.300, 1.973

■ 63, 36.164, 0.119

■ 68, 26.850,
358.594

■ 74, 17.616,
357.309

■ 80, 8.628, 356.188

Harmonies

Complementary

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



45, 76.431, 20.809



76, 62.638, 160.881

Rectangle

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



45, 76.431, 20.809



45, 76.431, 70.809



45, 76.431, 200.809



45, 76.431, 250.809

Sweetspot

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



45, 76.428, 20.811



81, 31.122, 358.643



39, 104.921, 316.753



40, 21.338, 359.262



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, 76.428, 20.811



54, 87.859, 21.477



46, 87.462, 42.795



42, 4.932, 356.130



36, 64.549, 19.876



5, 22.309, 5.739

Inverse Universe

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



45, 76.428, 20.811



54, 87.859, 21.477



66, 38.131, 232.289



42, 4.932, 356.130



36, 64.549, 19.876



5, 22.309, 5.739

Previews

White Background



This preview shows how the CIELCh color 45, 76.431, 20.809 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, 76.431, 20.809 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, 76.431, 20.809

Background



This preview shows how black text looks on a background with the CIELCh color 45, 76.431, 20.809.



This preview shows how white text looks on a background with the CIELCh color 45, 76.431, 20.809.

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, 76.431, 20.809

Protanopia

46, 6.286, 89.531

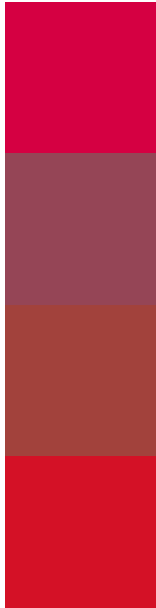
Deuteranopia

46, 31.427, 78.782



Tritanopia
45, 84.431, 37.767

Trichromacy



Original Color
45, 76.431, 20.809

Protanomaly
40, 35.903, 9.788

Deuteranomaly
41, 46.019, 31.178

Tritanomaly
45, 81.268, 32.423

Monochromacy



Original Color
45, 76.431, 20.809

Achromatopsia
30, 0.005, 296.813

Achromatomaly
31, 36.360, 4.607

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 76.431, 20.809 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, 66)` looks like.

```
.text, #text, p{  
    color:rgb(213, 0, 66)  
}
```

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, 66) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(213, 0, 66) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 76.431, 20.809 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, 66) }
```

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

```
.border{ border-color:rgb(213, 0, 66) }
```

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, 66) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(213, 0, 66); -webkit-box-  
shadow:4px 4px 4px 4px rgb(213, 0, 66);  
box-shadow:4px 4px 4px 4px rgb(213, 0, 66)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 45, 76.431, 20.809 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, 66) }
```

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

```
.background{ background-color: rgb(213, 0,  
66) }
```

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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