

# Converting Colors

CIELCh(45, 72.514, 0.517)

Have a look what the booklet for  
CIELCh(45, 72.514, 0.517) contains.

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**Color**

**CIELCh(45, 72.533, 0.685)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	D0046C
RGB	208, 4, 108
RGB Percent	82%, 2%, 42%
CMY	0.1850, 0.9862, 0.5770
CMYK	0.00, 0.98, 0.48, 0.18
HSL	329°, 97%, 41%
HSV	329°, 98%, 82%
XYZ	28.7042, 14.5417, 15.4450
YIQ	76.8520, 88.2000, 75.5920

# Conversions

## Conversions Part 2

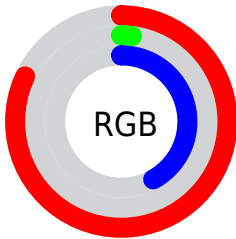
<b>Format</b>	<b>Color</b>
<b>RYB</b>	208, 4, 108
Decimal	13632620
CIELab	45.00, 72.53, 0.87
CIELCh	45, 72.533, 0.685
Yxy	14.5417, 0.4891, 0.2478
Android (android.graphics.Color)	4291822700 (0xFFD0046C)
YUV	76.8520, 15.3560, 115.0168
Hunter-Lab	38.1336, 67.6283, 2.6796

# Details

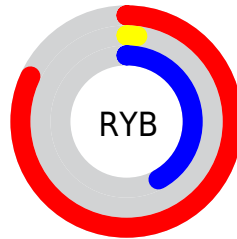
The CIELCh color **45, 72.533, 0.685** is a dark color, and the websafe version is hex **CC0066**. The color can be described as dark washed rose. A complement of this color would be **74, 76.704, 148.780**, and the grayscale version is **32, 0.005, 296.813**.

A 20% lighter version of the original color is **63, 68.104, 357.509**, and **31, 56.061, 9.203** is the 20% darker color. If you saturate the color by 10%, you get **45, 72.722, 1.348**, and if you desaturate by 10%, it is **46, 71.127, 356.956**.

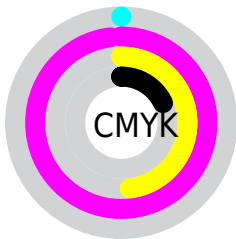
# Distribution



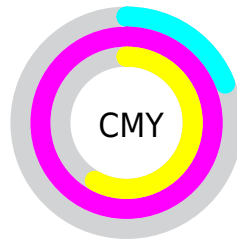
- Red (82%)
- Green (2%)
- Blue (42%)



- Red (82%)
- Yellow (2%)
- Blue (42%)



- Cyan (0%)
- Magenta (98%)
- Yellow (48%)
- Black (18%)



- Cyan (19%)
- Magenta (99%)
- Yellow (58%)






# Brightness & Saturation Gradients

These gradients show how the CIELCh color 45, 72.533, 0.685 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, 72.533, 0.685 by changing the saturation by 10% instead.



 45, 72.533, 0.685	 45, 72.533, 0.685
 100, 72.533, 0.685	 35, 72.533, 0.685
 65, 72.533, 0.685	 25, 72.533, 0.685
 75, 72.533, 0.685	 15, 72.533, 0.685
 85, 72.533, 0.685	 5, 72.533, 0.685
 95, 72.533, 0.685	 0, 72.533, 0.685

 45, 72.533, 0.685	 45, 72.533, 0.685
 45, 72.722, 1.348	 46, 71.127, 356.956
	 48, 67.801, 353.955

51, 62.374,  
351.581

54, 55.155,  
349.675

58, 46.629,  
348.109

63, 37.288,  
346.789

68, 27.544,  
345.646

73, 17.696,  
344.635

79, 7.945, 343.708

# Harmonies

# Complementary

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



45, 72.533, 0.685



74, 76.704, 148.780

# Rectangle

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



45, 72.533, 0.685



45, 72.533, 50.685



45, 72.533, 180.685



45, 72.533, 230.685

# Sweetspot

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



45, 72.529, 0.686



82, 33.324, 345.758



33, 106.683, 311.524



41, 22.883, 346.239



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, 72.529, 0.686



55, 84.762, 1.901



43, 88.007, 38.997



41, 5.460, 343.809



36, 62.241, 0.667



5, 21.923, 353.248





# Inverse Universe

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



45, 72.529, 0.686



55, 84.762, 1.901



76, 43.392, 193.884



41, 5.460, 343.809



36, 62.241, 0.667



5, 21.923, 353.248



# Previews

## White Background



This preview shows how the CIELCh color 45, 72.533, 0.685 looks on a white background.

## Color Contrast Check

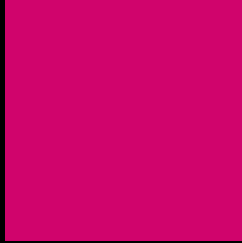
Large Text (above 18pt) WCAG AA ✓ Pass

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, 72.533, 0.685 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, 72.533, 0.685**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 45, 72.533, 0.685.



This preview shows how white text looks on a background with the CIELCh color 45, 72.533, 0.685.

# 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, 72.533, 0.685

### Protanopia

46, 29.290, 285.186

### Deuteranopia

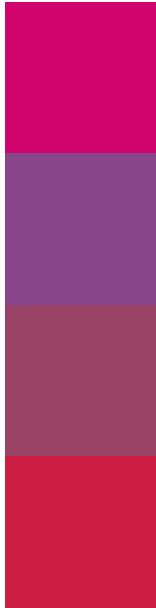
46, 8.145, 45.894



**Tritanopia**  
45, 73.897, 33.552



# Trichromacy



**Original Color**  
45, 72.533, 0.685

**Protanomaly**  
40, 46.953, 325.662

**Deuteranomaly**  
41, 39.382, 356.354

**Tritanomaly**  
45, 71.113, 21.439

# Monochromacy



**Original Color**  
45, 72.533, 0.685

**Achromatopsia**  
33, 0.005, 296.813

**Achromatomaly**  
33, 37.477, 349.811

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 45, 72.533, 0.685 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(208, 4, 108)` looks like.

```
.text, #text, p{  
    color:rgb(208, 4, 108)  
}
```

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(208, 4, 108) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(208, 4, 108) }
```

## Border

The CSS property to change the border of an element to CIELCh 45, 72.533, 0.685 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(208, 4, 108) }
```

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

```
.border{ border-color:rgb(208, 4, 108) }
```

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

Here you see how a box with a 4 pixel `rgb(208, 4, 108)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(208, 4, 108); -webkit-box-  
shadow:4px 4px 4px 4px rgb(208, 4, 108);  
box-shadow:4px 4px 4px 4px rgb(208, 4,  
108) }
```

# Background

The CSS property to change the background color of an element to CIELCh 45, 72.533, 0.685 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(208, 4, 108) }
```

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

```
.background{ background-color: rgb(208, 4,  
108) }
```

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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