

# Converting Colors

CIELCh(50, 81.429, 351.252)

Have a look what the booklet for  
CIELCh(50, 81.429, 351.252)  
contains.

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**Color**

**CIELCh(50, 80.963, 351.390)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E4008E
RGB	228, 0, 142
RGB Percent	89%, 0%, 56%
CMY	0.1063, 1.0000, 0.4435
CMYK	0.00, 1.00, 0.38, 0.11
HSL	323°, 100%, 45%
HSV	323°, 100%, 89%
XYZ	36.8333, 18.4187, 27.1701
YIQ	84.3600, 90.3060, 92.4980

# Conversions

## Conversions Part 2

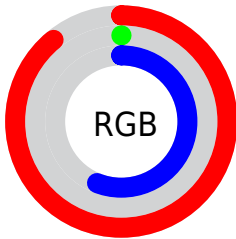
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	228, 0, 142
Decimal	14942350
CIE <sub>Lab</sub>	50.00, 80.05, -12.12
CIE <sub>LCh</sub>	50, 80.963, 351.390
Yxy	18.4187, 0.4469, 0.2235
Android (android.graphics.Color)	4293132430 (0xFFE4008E)
YUV	84.3600, 28.4165, 125.9723
Hunter-Lab	42.9170, 78.0920, -7.4938

# Details

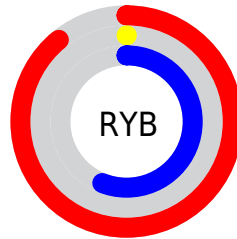
The CIELCh color **50, 80.963, 351.390** is a dark color, and the websafe version is hex **FF0099**. The color can be described as dark washed rose. A complement of this color would be **80, 92.417, 143.461**, and the grayscale version is **36, 0.005, 296.813**.

A 20% lighter version of the original color is **65, 73.513, 343.232**, and **36, 62.545, 356.950** is the 20% darker color. If you saturate the color by 10%, you get **50, 80.931, 351.397**, and if you desaturate by 10%, it is **51, 80.331, 348.720**.

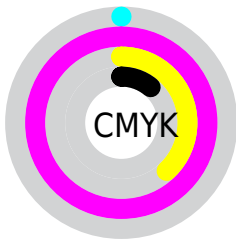
# Distribution



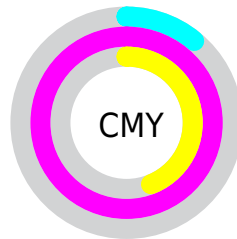
- Red (89%)
- Green (0%)
- Blue (56%)



- Red (89%)
- Yellow (0%)
- Blue (56%)



- Cyan (0%)
- Magenta (100%)
- Yellow (38%)
- Black (11%)




- Cyan (11%)
- Magenta (100%)
- Yellow (44%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 50, 80.963, 351.390 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 50, 80.963, 351.390 by changing the saturation by 10% instead.





 50, 80.963,  
351.390


 50, 80.963,  
351.390


 100, 80.963,  
351.390


 40, 80.963,  
351.390


 70, 80.963,  
351.390

 30, 80.963,  
351.390


 80, 80.963,  
351.390


 20, 80.963,  
351.390

 90, 80.963,  
351.390

 10, 80.963,  
351.390

 0, 80.963, 351.390

 50, 80.963,  
351.390

 50, 80.963,  
351.390

50, 80.931,  
351.397

51, 80.331,  
348.720

53, 77.534,  
346.523

56, 72.187,  
344.749

59, 64.599,  
343.285

63, 55.305,  
342.044

68, 44.876,  
340.961

73, 33.809,  
339.995

79, 22.483,  
339.116

85, 11.160,



# Harmonies

# Complementary

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



50, 80.963, 351.390



80, 92.417, 143.461

# Rectangle

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



50, 80.963, 351.390



50, 80.963, 41.390



50, 80.963, 171.390



50, 80.963, 221.390

# Sweetspot

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



50, 80.931, 351.397



81, 37.035, 340.012



33, 118.029, 309.162



41, 25.243, 340.411



0, 0.000, 0.000



53, 0.007, 296.813





# Same Dimension

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



50, 80.931, 351.397



56, 88.007, 351.597



48, 89.883, 34.674



45, 6.371, 338.253



39, 67.617, 350.892



7, 29.201, 346.291



# Inverse Universe

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



50, 80.931, 351.397



56, 88.007, 351.597



82, 52.676, 177.951



45, 6.371, 338.253



39, 67.617, 350.892



7, 29.201, 346.291



# Previews

## White Background



This preview shows how the CIELCh color 50, 80.963, 351.390 looks on a white background.

## Color Contrast Check

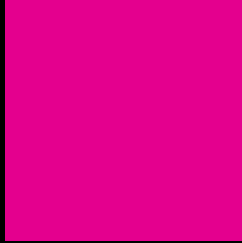
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail

# Black Background



This preview shows how the CIELCh color 50, 80.963, 351.390 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

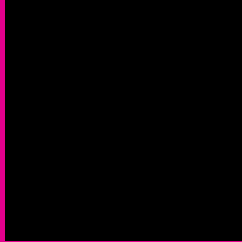
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

If you want to check with other color combinations, try the [Color Contrast Checker](#).

# CIELCh 50, 80.963, 351.390

## Background



This preview shows how black text looks on a background with the CIELCh color 50, 80.963, 351.390.



This preview shows how white text looks on a background with the CIELCh color 50, 80.963, 351.390.

# 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

50, 80.963, 351.390

### Protanopia

51, 49.729, 286.162

### Deuteranopia

51, 9.644, 315.112





**Tritanopia**  
50, 74.436, 31.472

# Trichromacy



**Original Color**  
50, 80.963, 351.390



**Protanomaly**  
44, 64.772, 314.533



**Deuteranomaly**  
45, 48.006, 339.100



**Tritanomaly**  
49, 73.458, 15.241

# Monochromacy



**Original Color**  
50, 80.963, 351.390



**Achromatopsia**  
36, 0.005, 296.813



**Achromatomaly**  
36, 43.426, 342.907

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 50, 80.963, 351.390 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(228, 0, 142)` looks like.

```
.text, #text, p{  
    color:rgb(228, 0, 142)  
}
```

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(228, 0, 142) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(228, 0, 142) }
```

## Border

The CSS property to change the border of an element to CIELCh 50, 80.963, 351.390 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(228, 0, 142) }
```

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

```
.border{ border-color:rgb(228, 0, 142) }
```

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

Here you see how a box with a 4 pixel `rgb(228, 0, 142)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(228, 0, 142); -webkit-box-  
shadow:4px 4px 4px 4px rgb(228, 0, 142);  
box-shadow:4px 4px 4px 4px rgb(228, 0,  
142) }
```

# Background

The CSS property to change the background color of an element to CIELCh 50, 80.963, 351.390 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(228, 0, 142) }
```

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

```
.background{ background-color: rgb(228, 0,  
142) }
```

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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