

# Converting Colors

CIELCh(50, 72.183, 317.907)

Have a look what the booklet for  
CIELCh(50, 72.183, 317.907)  
contains.

<b>CIELCh(50, 72.225, 318.086)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	12
<i><b>Previews</b></i> .....	21
<i><b>Color Blindness Simulation</b></i> .....	24
<i><b>CSS Examples</b></i> .....	27

**Color**

**CIELCh(50, 72.225, 318.086)**

# Conversions

## Conversions Part 1

Format	Color
Hex	A652CA
RGB	166, 82, 202
RGB Percent	65%, 32%, 79%
CMY	0.3488, 0.6783, 0.2077
CMYK	0.18, 0.59, 0.00, 0.21
HSL	282°, 53%, 56%
HSV	282°, 59%, 79%
XYZ	29.4212, 18.4187, 57.9082
YIQ	120.7960, 11.5440, 55.1280

# Conversions

## Conversions Part 2

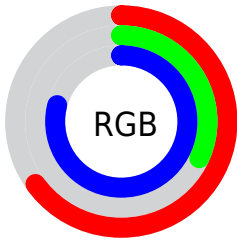
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	166, 82, 202
Decimal	10900170
CIE <sub>Lab</sub>	50.00, 53.75, -48.25
CIE <sub>LCh</sub>	50, 72.225, 318.086
Yxy	18.4187, 0.2782, 0.1742
Android (android.graphics.Color)	4289090250 (0xFFA652CA)
YUV	120.7960, 40.0336, 39.6439
Hunter-Lab	42.9170, 47.2639, -49.9587

# Details

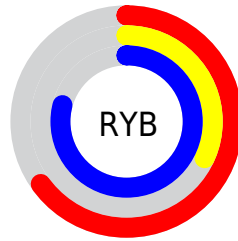
The CIELCh color **50, 72.225, 318.086** is a light color, and the websafe version is hex **9966CC**. The color can be described as light muted purple. A complement of this color would be **74, 69.353, 132.731**, and the grayscale version is **51, 0.007, 296.813**.

A 20% lighter version of the original color is **70, 70.395, 319.029**, and **30, 72.000, 318.205** is the 20% darker color. If you saturate the color by 10%, you get **46, 82.477, 318.248**, and if you desaturate by 10%, it is **55, 60.751, 317.790**.

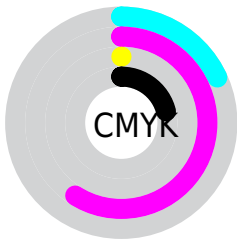
# Distribution



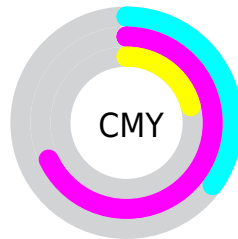
- Red (65%)
- Green (32%)
- Blue (79%)



- Red (65%)
- Yellow (32%)
- Blue (79%)



- Cyan (18%)
- Magenta (59%)
- Yellow (0%)
- Black (21%)




- Cyan (35%)
- Magenta (68%)
- Yellow (21%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 50, 72.225, 318.086 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, 72.225, 318.086 by changing the saturation by 10% instead.




 50, 72.225,  
318.086


 50, 72.225,  
318.086


 100, 72.225,  
318.086


 40, 72.225,  
318.086

 70, 72.225,  
318.086

 30, 72.225,  
318.086

 80, 72.225,  
318.086

 20, 72.225,  
318.086

 90, 72.225,  
318.086

 10, 72.225,  
318.086

 0, 72.225, 318.086

 50, 72.225,  
318.086

 50, 72.225,  
318.086

46, 82.477,  
318.248

55, 60.751,  
317.790

42, 90.876,  
318.211

60, 48.595,  
317.410

40, 96.828,  
317.910

65, 36.149,  
316.987

38, 100.327,  
317.342

70, 23.681,  
316.549

38, 100.520,  
317.307

76, 11.359,  
316.109

82, 0.715, 135.966

87, 12.486,  
135.337

93, 23.929,  
134.970

96, 29.757,  
133.188



# Harmonies

# Complementary

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



50, 72.225, 318.086



74, 69.353, 132.731

# Rectangle

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



50, 72.225, 318.086



50, 72.225, 8.086



50, 72.225, 138.086



50, 72.225, 188.086

# Sweetspot

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



50, 72.223, 318.086



88, 26.523, 316.498



51, 49.265, 285.189



45, 18.477, 316.628



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, 72.223, 318.086



57, 101.108, 318.260



54, 65.153, 334.547



40, 6.913, 316.110



31, 86.701, 317.441



3, 25.927, 314.912



# Inverse Universe

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



52, 51.122, 4.812



60, 71.860, 8.548



73, 65.907, 144.821



40, 4.714, 356.791



35, 63.349, 20.604

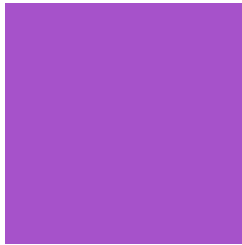


4, 18.551, 4.901



# Previews

## White Background



This preview shows how the CIELCh color 50, 72.225, 318.086 looks on a white background.

## Color Contrast Check

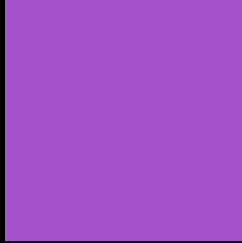
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail

# Black Background



This preview shows how the CIE LCh color 50, 72.225, 318.086 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

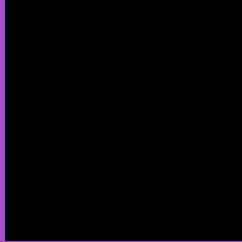
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

# CIELCh 50, 72.225, 318.086

## Background



This preview shows how black text looks on a background with the CIELCh color 50, 72.225, 318.086.

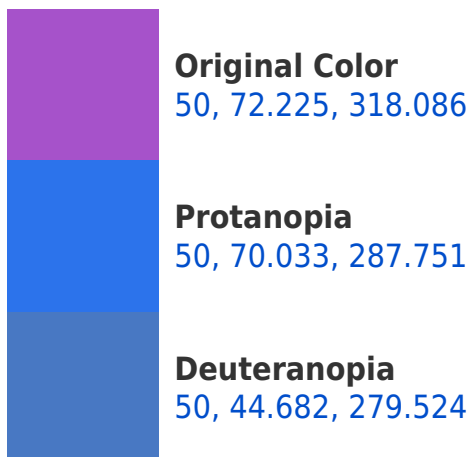


This preview shows how white text looks on a background with the CIELCh color 50, 72.225, 318.086.

# 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







**Tritanopia**  
50, 20.232, 8.849

# Trichromacy



**Original Color**  
50, 72.225, 318.086



**Protanomaly**  
48, 70.094, 295.661



**Deuteranomaly**  
49, 53.930, 296.731



**Tritanomaly**  
49, 36.347, 332.869

# Monochromacy



**Original Color**  
50, 72.225, 318.086



**Achromatopsia**  
51, 0.007, 296.813



**Achromatomaly**  
50, 27.622, 316.854

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 50, 72.225, 318.086 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(166, 82, 202)` looks like.

```
.text, #text, p{  
    color:rgb(166, 82, 202)  
}
```

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(166, 82, 202) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(166, 82, 202) }
```

## Border

The CSS property to change the border of an element to CIELCh 50, 72.225, 318.086 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(166, 82, 202) }
```

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

```
.border{ border-color:rgb(166, 82, 202) }
```

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

Here you see how a box with a 4 pixel `rgb(166, 82, 202)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(166, 82, 202); -webkit-box-  
shadow:4px 4px 4px 4px rgb(166, 82, 202);  
box-shadow:4px 4px 4px 4px rgb(166, 82,  
202) }
```

# Background

The CSS property to change the background color of an element to CIELCh 50, 72.225, 318.086 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(166, 82, 202) }
```

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

```
.background{ background-color: rgb(166, 82,  
202) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor