

# Converting Colors

CIELCh(50, 47.043, 318.736)

Have a look what the booklet for  
CIELCh(50, 47.043, 318.736)  
contains.

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**Color**

**CIELCh(50, 46.877, 318.889)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	9962AC
RGB	153, 98, 172
RGB Percent	60%, 38%, 67%
CMY	0.4009, 0.6165, 0.3263
CMYK	0.11, 0.43, 0.00, 0.33
HSL	285°, 31%, 53%
HSV	285°, 43%, 67%
XYZ	24.8697, 18.4187, 41.1639
YIQ	122.8810, 9.0260, 34.6740

# Conversions

## Conversions Part 2

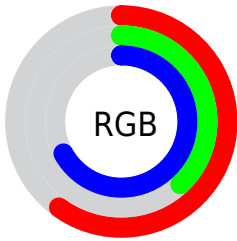
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	153, 98, 172
Decimal	10052268
CIE <sub>Lab</sub>	50.00, 35.32, -30.82
CIE <sub>LCh</sub>	50, 46.877, 318.889
Yxy	18.4187, 0.2945, 0.2181
Android (android.graphics.Color)	4288242348 (0xFF9962AC)
YUV	122.8810, 24.2157, 26.4144
Hunter-Lab	42.9170, 28.3332, -26.8262

# Details

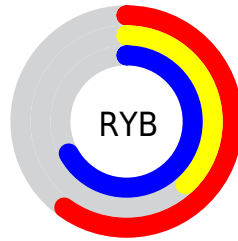
The CIELCh color `50, 46.877, 318.889` is a dark color, and the websafe version is hex `996699`. A complement of this color would be `65, 45.707, 134.854`, and the grayscale version is `51, 0.007, 296.813`.

A 20% lighter version of the original color is `70, 47.038, 318.975`, and `30, 46.758, 318.890` is the 20% darker color. If you saturate the color by 10%, you get `46, 57.334, 319.234`, and if you desaturate by 10%, it is `54, 36.005, 318.488`.

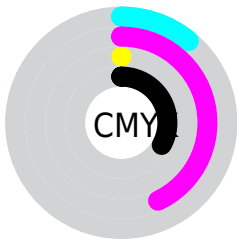
# Distribution



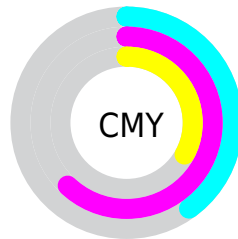
- Red (60%)
- Green (38%)
- Blue (67%)



- Red (60%)
- Yellow (38%)
- Blue (67%)



- Cyan (11%)
- Magenta (43%)
- Yellow (0%)
- Black (33%)




- Cyan (40%)
- Magenta (62%)
- Yellow (33%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 50, 46.877, 318.889 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, 46.877, 318.889 by changing the saturation by 10% instead.




 50, 46.877,  
318.889


 50, 46.877,  
318.889


 100, 46.877,  
318.889


 40, 46.877,  
318.889


 70, 46.877,  
318.889

 30, 46.877,  
318.889


 80, 46.877,  
318.889

 20, 46.877,  
318.889

 90, 46.877,  
318.889

 10, 46.877,  
318.889

 0, 46.877, 318.889

 50, 46.877,  
318.889

 50, 46.877,  
318.889

46, 57.334,  
319.234

54, 36.005,  
318.488

42, 66.996,  
319.483

59, 25.002,  
318.059

39, 75.371,  
319.587

64, 14.051,  
317.622

36, 81.936,  
319.492

69, 3.269, 317.159

34, 86.280,  
319.147

74, 7.275, 136.832

33, 88.359,  
318.809

79, 17.545,  
136.439

84, 27.526,  
136.084

89, 37.214,  
135.760

94, 46.615,  
135.465



# Harmonies

# Complementary

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



50, 46.877, 318.889



65, 45.707, 134.854

# Rectangle

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



50, 46.877, 318.889



50, 46.877, 8.889



50, 46.877, 138.889



50, 46.877, 188.889

# Sweetspot

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



50, 46.875, 318.889



81, 17.376, 317.629



50, 32.056, 283.086



42, 12.166, 317.724



95, 0.011, 296.813



47, 0.006, 296.813





# Same Dimension

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



50, 46.875, 318.889



60, 69.831, 319.230



52, 42.116, 334.642



34, 6.113, 317.457



29, 80.109, 318.899



2, 12.521, 314.426



# Inverse Universe

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



50, 32.318, 4.401



60, 48.696, 6.388



64, 41.938, 148.080



34, 4.037, 359.830



31, 60.122, 23.891

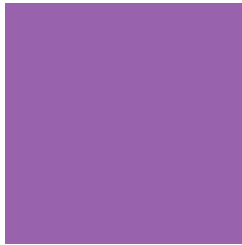


2, 8.186, 2.528



# Previews

## White Background



This preview shows how the CIELCh color 50, 46.877, 318.889 looks on a white background.

## Color Contrast Check

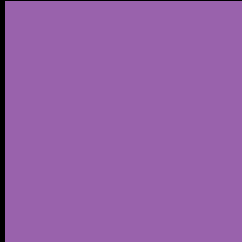
Large Text (above 18pt) WCAG AA ✓ Pass

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, 46.877, 318.889 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

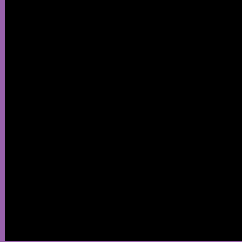
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**CIELCh 50, 46.877, 318.889**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 50, 46.877, 318.889.



This preview shows how white text looks on a background with the CIELCh color 50, 46.877, 318.889.

# 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, 46.877, 318.889

**Protanopia**  
50, 41.676, 285.782

**Deuteranopia**  
50, 29.469, 283.796





**Tritanopia**  
50, 15.198, 3.563

# Trichromacy



**Original Color**  
50, 46.877, 318.889

**Protanomaly**  
50, 42.250, 297.460

**Deuteranomaly**  
50, 34.219, 299.420

**Tritanomaly**  
50, 24.750, 333.737

# Monochromacy



**Original Color**  
50, 46.877, 318.889

**Achromatopsia**  
52, 0.007, 296.813

**Achromatomaly**  
51, 17.601, 317.798

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 50, 46.877, 318.889 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(153, 98, 172)` looks like.

```
.text, #text, p{  
    color:rgb(153, 98, 172)  
}
```

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(153, 98, 172) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(153, 98, 172) }
```

## Border

The CSS property to change the border of an element to CIELCh 50, 46.877, 318.889 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(153, 98, 172) }
```

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

```
.border{ border-color:rgb(153, 98, 172) }
```

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

Here you see how a box with a 4 pixel rgb(153, 98, 172) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(153, 98, 172); -webkit-box-  
shadow:4px 4px 4px 4px rgb(153, 98, 172);  
box-shadow:4px 4px 4px 4px rgb(153, 98,  
172) }
```

# Background

The CSS property to change the background color of an element to CIELCh 50, 46.877, 318.889 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(153, 98, 172) }
```

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

```
.background{ background-color: rgb(153, 98,  
172) }
```

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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