

# Converting Colors

CIELCh(64, 22.395, 285.577)

Have a look what the booklet for  
CIELCh(64, 22.395, 285.577)  
contains.

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# Color

**CIELCh(64, 22.416, 285.600)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	9199C1
RGB	145, 153, 193
RGB Percent	57%, 60%, 76%
CMY	0.4301, 0.3987, 0.2418
CMYK	0.25, 0.21, 0.00, 0.24
HSL	230°, 28%, 66%
HSV	230°, 25%, 76%
XYZ	32.8408, 32.8017, 55.2492
YIQ	155.1680, -17.6080, 10.7440

# Conversions

## Conversions Part 2

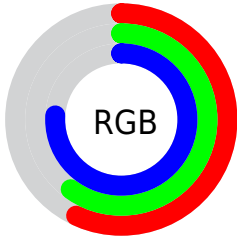
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	145, 152, 193
Decimal	9542081
CIE <sub>Lab</sub>	64.00, 6.03, -21.59
CIE <sub>LCh</sub>	64, 22.416, 285.600
Yxy	32.8017, 0.2717, 0.2713
Android (android.graphics.Color)	4287732161 (0xFF9199C1)
YUV	155.1680, 18.6512, -8.9173
Hunter-Lab	57.2727, 2.1266, -17.1043

# Details

The CIELCh color `64, 22.416, 285.600` is a light color, and the websafe version is hex `9999CC`. A complement of this color would be `75, 21.661, 99.558`, and the grayscale version is `64, 0.008, 296.813`.

A 20% lighter version of the original color is `84, 22.762, 286.302`, and `44, 22.310, 285.259` is the 20% darker color. If you saturate the color by 10%, you get `58, 31.971, 287.308`, and if you desaturate by 10%, it is `70, 13.178, 284.140`.

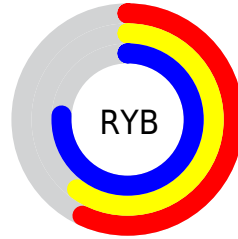
# Distribution



Red (57%)

Green (60%)

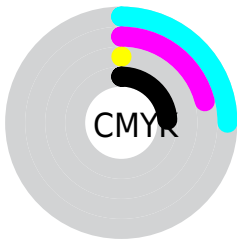
Blue (76%)



Red (57%)

Yellow (60%)

Blue (76%)

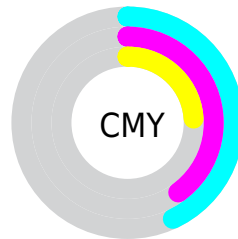


Cyan (25%)

Magenta (21%)

Yellow (0%)

Black (24%)



Cyan (43%)

Magenta (40%)

Yellow (24%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 64, 22.416, 285.600 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 64, 22.416, 285.600 by changing the saturation by 10% instead.



 64, 22.416,  
285.600

 64, 22.416,  
285.600

 100, 22.416,  
285.600

 54, 22.416,  
285.600

 84, 22.416,  
285.600

 44, 22.416,  
285.600


 94, 22.416,  
285.600

 34, 22.416,  
285.600

 24, 22.416,  
285.600

 14, 22.416,  
285.600

 4, 22.416, 285.600

 0, 22.416, 285.600

64, 22.416,  
285.600

64, 22.416,  
285.600

58, 31.971,  
287.308

70, 13.178,  
284.140

53, 41.875,  
289.299

75, 4.234, 282.909

81, 4.439, 101.772

47, 52.150,  
291.591

87, 12.857,  
100.866

42, 62.779,  
294.170

92, 21.035,  
100.067

36, 73.637,  
296.958

97, 28.722,  
104.162

32, 84.351,  
299.789

99, 31.053,  
107.816

28, 94.151,  
302.402

26, 98.534,



# Harmonies

# Complementary

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



64, 22.416, 285.600



75, 21.661, 99.558

# Rectangle

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



64, 22.416, 285.600



64, 22.416, 335.600



64, 22.416, 105.600



64, 22.416, 155.600

# Sweetspot

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



64, 22.415, 285.599



94, 7.636, 283.168



75, 17.464, 183.668



50, 5.006, 283.240



0, 0.000, 0.000



53, 0.007, 296.813





# Same Dimension

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



64, 22.415, 285.599



78, 33.944, 286.531



63, 27.568, 304.573



38, 5.005, 283.438



21, 84.977, 303.199



2, 17.204, 286.239



# Inverse Universe

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



65, 19.526, 8.392



79, 29.699, 9.169



76, 26.321, 121.689



38, 4.282, 6.611



33, 66.865, 31.245

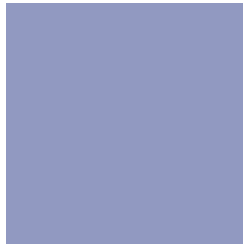


3, 14.205, 10.386



# Previews

## White Background



This preview shows how the CIELCh color 64, 22.416, 285.600 looks on a white background.

## Color Contrast Check

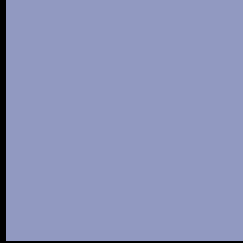
Large Text (above 18pt) WCAG AA × Fail

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 64, 22.416, 285.600 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

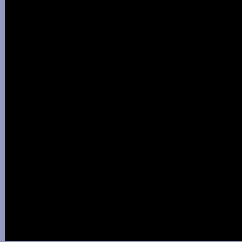
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# CIELCh 64, 22.416, 285.600

## Background



This preview shows how black text looks on a background with the CIELCh color 64, 22.416, 285.600.



This preview shows how white text looks on a background with the CIELCh color 64, 22.416, 285.600.

# 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

64, 22.416, 285.600

### Protanopia

64, 22.416, 285.600

### Deuteranopia

64, 23.443, 290.982





**Tritanopia**  
64, 9.135, 251.859

# Trichromacy



**Original Color**  
64, 22.416, 285.600

**Protanomaly**  
64, 22.416, 285.600

**Deuteranomaly**  
64, 23.459, 289.338

**Tritanomaly**  
64, 12.975, 270.768

# Monochromacy



**Original Color**  
64, 22.416, 285.600

**Achromatopsia**  
64, 0.008, 296.813

**Achromatomaly**  
64, 8.425, 283.579

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 64, 22.416, 285.600 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(145, 153, 193)` looks like.

```
.text, #text, p{  
    color:rgb(145, 153, 193)  
}
```

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(145, 153, 193) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(145, 153, 193) }
```

## Border

The CSS property to change the border of an element to CIELCh 64, 22.416, 285.600 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(145, 153, 193) }
```

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

```
.border{ border-color:rgb(145, 153, 193) }
```

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

Here you see how a box with a 4 pixel rgb(145, 153, 193) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(145, 153, 193); -webkit-box-  
shadow:4px 4px 4px 4px rgb(145, 153, 193);  
box-shadow:4px 4px 4px 4px rgb(145, 153,  
193) }
```

# Background

The CSS property to change the background color of an element to CIELCh 64, 22.416, 285.600 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(145, 153, 193) }
```

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

```
.background{ background-color: rgb(145,  
153, 193) }
```

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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