

# Converting Colors

CIELCh(64, 12.317, 223.576)

Have a look what the booklet for  
CIELCh(64, 12.317, 223.576)  
contains.

<b>CIELCh(64, 12.383, 225.482)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	21
<b><i>Color Blindness Simulation</i></b> .....	24
<b><i>CSS Examples</i></b> .....	27

# Color

**CIELCh(64, 12.383, 225.482)**

# Conversions

## Conversions Part 1

Format	Color
Hex	80A0AA
RGB	128, 160, 170
RGB Percent	50%, 63%, 67%
CMY	0.4966, 0.3711, 0.3319
CMYK	0.25, 0.06, 0.00, 0.33
HSL	194°, 20%, 59%
HSV	194°, 25%, 67%
XYZ	28.8809, 32.8017, 43.0227
YIQ	151.5720, -22.2820, -3.6740

# Conversions

## Conversions Part 2

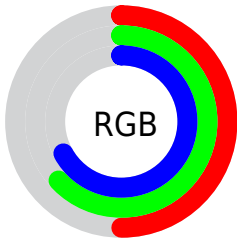
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	128, 146, 170
Decimal	8429738
CIE <sub>Lab</sub>	64.00, -8.68, -8.83
CIE <sub>LCh</sub>	64, 12.383, 225.482
Yxy	32.8017, 0.2758, 0.3133
Android (android.graphics.Color)	4286619818 (0xFF80A0AA)
YUV	151.5720, 9.0850, -20.6726
Hunter-Lab	57.2727, -10.2153, -4.4471

# Details

The CIELCh color `64, 12.383, 225.482` is a light color, and the websafe version is hex `669999`. A complement of this color would be `60, 14.496, 43.204`, and the grayscale version is `63, 0.008, 296.813`.

A 20% lighter version of the original color is `84, 12.241, 224.367`, and `44, 12.309, 224.433` is the 20% darker color. If you saturate the color by 10%, you get `62, 16.825, 226.430`, and if you desaturate by 10%, it is `66, 7.573, 224.774`.

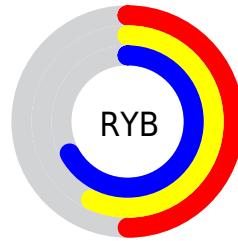
# Distribution



Red (50%)

Green (63%)

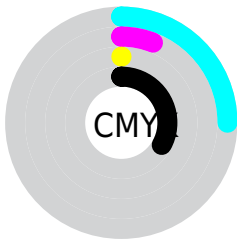
Blue (67%)



Red (50%)

Yellow (57%)

Blue (67%)

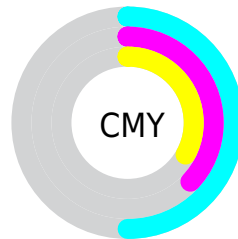


Cyan (25%)

Magenta (6%)

Yellow (0%)

Black (33%)



Cyan (50%)

Magenta (37%)

Yellow (33%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 64, 12.383, 225.482 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, 12.383, 225.482 by changing the saturation by 10% instead.



 64, 12.383,  
225.482

 64, 12.383,  
225.482


 100, 12.383,  
225.482


 54, 12.383,  
225.482


 84, 12.383,  
225.482

 44, 12.383,  
225.482

 94, 12.383,  
225.482

 34, 12.383,  
225.482

 24, 12.383,  
225.482

 14, 12.383,  
225.482

 4, 12.383, 225.482

 0, 12.383, 225.482

64, 12.383,  
225.482

64, 12.383,  
225.482

62, 16.825,  
226.430

66, 7.573, 224.774

60, 20.826,  
227.689

69, 2.465, 224.364

58, 24.318,  
229.323

71, 2.876, 43.617

56, 27.249,  
231.415

74, 8.396, 43.448

54, 29.597,  
234.053

76, 14.048, 43.282

53, 31.388,  
237.316

79, 19.793, 43.173

51, 32.710,  
241.245

81, 25.601, 43.112

50, 33.357,

83, 27.793, 45.917

84, 27.374, 51.036

243.456

# Harmonies

# Complementary

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



64, 12.383, 225.482



60, 14.496, 43.204

# Rectangle

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



64, 12.383, 225.482



64, 12.383, 275.482



64, 12.383, 45.482



64, 12.383, 95.482

# Sweetspot

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



64, 12.383, 225.476



86, 4.566, 224.417



66, 24.069, 149.924



46, 2.987, 224.436



95, 0.011, 296.813



47, 0.006, 296.813





# Same Dimension

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



64, 12.383, 225.476



80, 18.320, 226.004



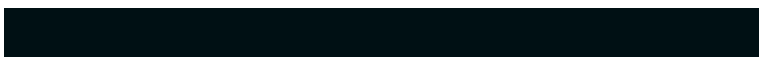
58, 17.823, 279.535



34, 2.933, 224.498



44, 29.987, 242.884



4, 5.386, 232.290



# Inverse Universe

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



59, 24.126, 333.498



72, 36.363, 333.913



66, 17.602, 93.119



33, 5.446, 332.451



33, 64.317, 340.297



2, 9.402, 334.519



# Previews

## White Background



This preview shows how the CIE LCh color 64, 12.383, 225.482 looks on a white background.

## Color Contrast Check

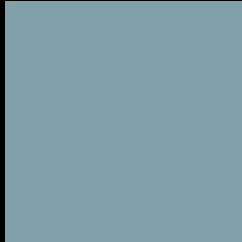
Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

# Black Background



This preview shows how the CIELCh color 64, 12.383, 225.482 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

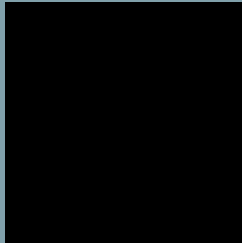
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# CIELCh 64, 12.383, 225.482

## Background



This preview shows how black text looks on a background with the CIELCh color 64, 12.383, 225.482.

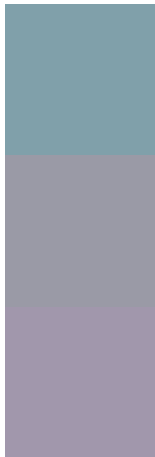


This preview shows how white text looks on a background with the CIELCh color 64, 12.383, 225.482.

# 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, 12.383, 225.482

### Protanopia

64, 6.699, 290.903

### Deuteranopia

64, 12.352, 308.783





**Tritanopia**  
64, 12.814, 233.284

# Trichromacy



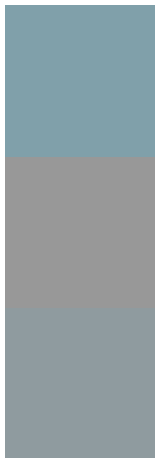
**Original Color**  
64, 12.383, 225.482

**Protanomaly**  
64, 7.719, 259.614

**Deuteranomaly**  
64, 9.626, 280.317

**Tritanomaly**  
64, 12.553, 231.013

# Monochromacy



**Original Color**  
64, 12.383, 225.482

**Achromatopsia**  
63, 0.008, 296.813

**Achromatomaly**  
63, 4.952, 226.025

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 64, 12.383, 225.482 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(128, 160, 170)` looks like.

```
.text, #text, p{  
    color:rgb(128, 160, 170)  
}
```

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(128, 160, 170) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(128, 160, 170) }
```

## Border

The CSS property to change the border of an element to CIELCh 64, 12.383, 225.482 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(128, 160, 170) }
```

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

```
.border{ border-color:rgb(128, 160, 170) }
```

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

Here you see how a box with a 4 pixel `rgb(128, 160, 170)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(128, 160, 170); -webkit-box-  
shadow:4px 4px 4px 4px rgb(128, 160, 170);  
box-shadow:4px 4px 4px 4px rgb(128, 160,  
170) }
```

# Background

The CSS property to change the background color of an element to CIELCh 64, 12.383, 225.482 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(128, 160, 170) }
```

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

```
.background{ background-color: rgb(128,  
160, 170) }
```

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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