

# Converting Colors

CIELCh(42, 20.937, 255.748)

Have a look what the booklet for  
CIELCh(42, 20.937, 255.748)  
contains.

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# Color

**CIELCh(42, 20.964, 255.934)**

# Conversions

## Conversions Part 1

Format	Color
Hex	406784
RGB	64, 103, 132
RGB Percent	25%, 40%, 52%
CMY	0.7483, 0.5954, 0.4817
CMYK	0.51, 0.22, 0.00, 0.48
HSL	206°, 35%, 39%
HSV	206°, 51%, 52%
XYZ	11.1692, 12.5000, 23.7165
YIQ	94.6450, -32.5530, 0.7510

# Conversions

## Conversions Part 2

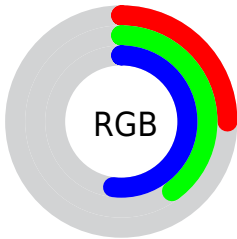
<b>Format</b>	<b>Color</b>
R <sub>YB</sub>	64, 89, 132
Decimal	4220804
CIE <sub>Lab</sub>	42.00, -5.10, -20.34
CIE <sub>LCh</sub>	42, 20.964, 255.934
Y <sub>xy</sub>	12.5000, 0.2357, 0.2638
Android (android.graphics.Color)	4282410884 (0xFF406784)
Y <sub>UV</sub>	94.6450, 18.4160, -26.8757
Hunter-Lab	35.3553, -5.4816, -15.0232

# Details

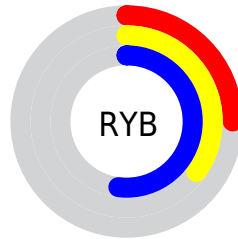
The CIELCh color  $42, 20.964, 255.934$  is a dark color, and the websafe version is hex  $336699$ . A complement of this color would be  $43, 26.014, 61.792$ , and the grayscale version is  $40, 0.006, 296.813$ .

A 20% lighter version of the original color is  $62, 20.889, 255.677$ , and  $22, 20.851, 255.924$  is the 20% darker color. If you saturate the color by 10%, you get  $40, 24.545, 258.824$ , and if you desaturate by 10%, it is  $44, 17.200, 253.513$ .

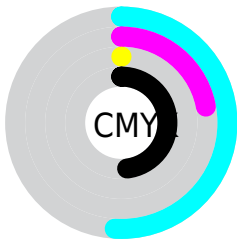
# Distribution



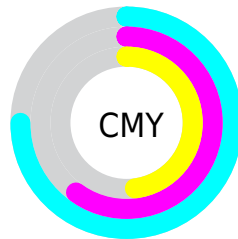
- Red (25%)
- Green (40%)
- Blue (52%)



- Red (25%)
- Yellow (35%)
- Blue (52%)



- Cyan (51%)
- Magenta (22%)
- Yellow (0%)
- Black (48%)




- Cyan (75%)
- Magenta (60%)
- Yellow (48%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 42, 20.964, 255.934 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 42, 20.964, 255.934 by changing the saturation by 10% instead.





 42, 20.964,  
255.934


 42, 20.964,  
255.934


 100, 20.964,  
255.934


 32, 20.964,  
255.934

 62, 20.964,  
255.934


 22, 20.964,  
255.934

 72, 20.964,  
255.934

 12, 20.964,  
255.934

 82, 20.964,  
255.934

 2, 20.964, 255.934

 92, 20.964,  
255.934

 0, 20.964, 255.934

 42, 20.964,

 42, 20.964,

255.934

■ 40, 24.545,  
258.824

■ 37, 27.955,  
262.233

■ 35, 31.235,  
266.173

■ 33, 34.456,  
270.589

■ 31, 37.286,  
274.361

255.934

■ 44, 17.200,  
253.513

■ 47, 13.263,  
251.499

■ 50, 9.172, 249.830

■ 52, 4.954, 248.461

■ 55, 0.636, 247.720

■ 58, 3.758, 66.161

■ 60, 8.205, 65.373

■ 63, 12.685, 64.677

■ 66, 17.183, 64.073

# Harmonies

# Complementary

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



42, 20.964, 255.934



43, 26.014, 61.792

# Rectangle

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



42, 20.964, 255.934



42, 20.964, 305.934



42, 20.964, 75.934



42, 20.964, 125.934

# Sweetspot

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



42, 20.963, 255.933



65, 7.972, 248.959



50, 34.642, 154.421



33, 5.470, 249.205



86, 0.010, 296.813



37, 0.005, 296.813



# Same Dimension

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



42, 20.963, 255.933



51, 30.423, 259.441



32, 39.343, 294.221



27, 2.454, 248.187



31, 36.803, 274.276



0, 0.593, 247.088





# Inverse Universe

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



37, 35.480, 344.642



44, 51.203, 346.259



52, 35.063, 101.413



26, 3.905, 340.535



27, 52.707, 354.139



0, 0.927, 339.894



# Previews

## White Background



This preview shows how the CIE LCh color 42, 20.964, 255.934 looks on a white background.

## Color Contrast Check

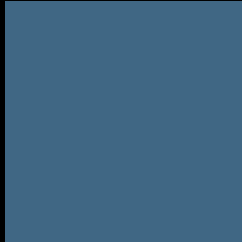
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

# Black Background



This preview shows how the CIELCh color 42, 20.964, 255.934 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

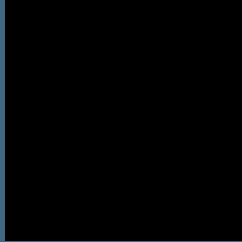
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

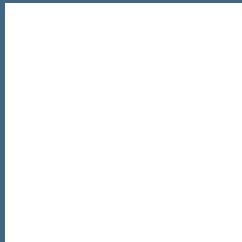
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**CIELCh 42, 20.964, 255.934**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 42, 20.964, 255.934.

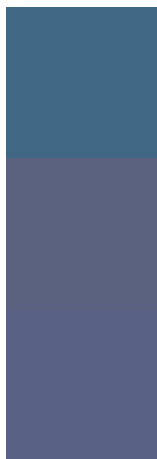


This preview shows how white text looks on a background with the CIELCh color 42, 20.964, 255.934.

# 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

42, 20.964, 255.934

### Protanopia

42, 18.233, 284.871

### Deuteranopia

42, 21.868, 285.998



**Tritanopia**  
42, 16.979, 216.523



# Trichromacy



**Original Color**  
42, 20.964, 255.934

**Protanomaly**  
42, 19.016, 272.580

**Deuteranomaly**  
42, 21.280, 275.520

**Tritanomaly**  
42, 17.433, 231.978

# Monochromacy



**Original Color**  
42, 20.964, 255.934

**Achromatopsia**  
40, 0.006, 296.813

**Achromatomaly**  
41, 8.439, 251.627

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 42, 20.964, 255.934 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(64, 103, 132)` looks like.

```
.text, #text, p{  
    color:rgb(64, 103, 132)  
}
```

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(64, 103, 132) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(64, 103, 132) }
```

## Border

The CSS property to change the border of an element to CIELCh 42, 20.964, 255.934 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(64, 103, 132) }
```

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

```
.border{ border-color:rgb(64, 103, 132) }
```

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

Here you see how a box with a 4 pixel `rgb(64, 103, 132)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(64, 103, 132); -webkit-box-  
shadow:4px 4px 4px 4px rgb(64, 103, 132);  
box-shadow:4px 4px 4px 4px rgb(64, 103,  
132) }
```

# Background

The CSS property to change the background color of an element to CIELCh 42, 20.964, 255.934 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(64, 103, 132) }
```

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

```
.background{ background-color: rgb(64, 103,  
132) }
```

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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