

# Converting Colors

CIELCh(100, 2.781, 109.943)

Have a look what the booklet for  
CIELCh(100, 2.781, 109.943)  
contains.

<b>CIELCh(100, 2.525, 109.959)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	11
<b><i>Previews</i></b> .....	20
<b><i>Color Blindness Simulation</i></b> .....	23
<b><i>CSS Examples</i></b> .....	26

# **Color**

**CIElCh(100, 2.525, 109.959)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFFFFFA
RGB	255, 255, 250
RGB Percent	100%, 100%, 98%
CMY	0.0000, 0.0000, 0.0182
CMYK	0.00, 0.00, 0.02, 0.00
HSL	60°, 100%, 99%
HSV	60°, 2%, 100%
XYZ	94.5563, 100.0000, 105.0526
YIQ	254.4300, 1.6050, -1.5550

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	250, 255, 250
Decimal	16777210
CIE Lab	100.00, -0.86, 2.37
CIE LCh	100, 2.525, 109.959
Yxy	100.0000, 0.3156, 0.3338
Android (android.graphics.Color)	4294967290 (0xFFFFFFFFFA)
YUV	254.4300, -2.1840, 0.4999
Hunter-Lab	100.0000, -6.2170, 7.7143

# Details

The CIELCh color 100, 2.525, 109.959 is a light color, and the websafe version is hex FFFFFFFF. A complement of this color would be 99, 2.376, 290.388, and the grayscale version is 100, 0.012, 296.813.

A 20% lighter version of the original color is 100, 0.012, 296.813, and 80, 2.118, 109.956 is the 20% darker color. If you saturate the color by 10%, you get 99, 15.250, 109.025, and if you desaturate by 10%, it is 100, 0.012, 296.813.

# Distribution



- Red (100%)
- Green (100%)
- Blue (98%)



- Red (98%)
- Yellow (100%)
- Blue (98%)



- Cyan (0%)
- Magenta (0%)
- Yellow (2%)
- Black (0%)




- Cyan (0%)
- Magenta (0%)
- Yellow (2%)


# Brightness & Saturation Gradients

These gradients show how the CIELCh color 100, 2.525, 109.959 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 100, 2.525, 109.959 by changing the saturation by 10% instead.



 100, 2.525,  
109.959

 100, 2.525,  
109.959

 90, 2.525, 109.959


 99, 15.250,  
109.025

 80, 2.525, 109.959


 99, 28.055,  
108.046

 70, 2.525, 109.959

 60, 2.525, 109.959

 98, 40.655,  
107.075

 50, 2.525, 109.959

 98, 52.885,  
106.131

 40, 2.525, 109.959

 30, 2.525, 109.959

 98, 64.491,  
105.242

 20, 2.525, 109.959

 97, 75.091,  
104.443

 10, 2.525, 109.959

 97, 84.150,

103.772

■ 97, 91.044,  
103.271

■ 97, 95.270,  
102.968

■ 100, 2.525,  
109.959

■ 100, 0.012,  
296.813

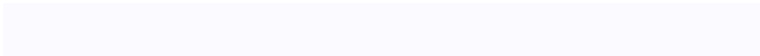
# Harmonies

# Complementary

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



100, 2.525, 109.959



99, 2.376, 290.388

# Rectangle

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



100, 2.525, 109.959



100, 2.525, 159.959

100, 2.525, 289.959

100, 2.525, 339.959

# Sweetspot

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



100, 2.344, 109.970



100, 1.282, 110.022



99, 1.633, 19.111



53, 0.729, 110.023



0, 0.000, 0.000



53, 0.007, 296.813



# Same Dimension

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



100, 2.344, 109.970



100, 2.575, 109.956



100, 2.492, 129.046



53, 1.464, 109.964



75, 78.056, 102.852



26, 35.525, 102.993





# Inverse Universe

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



99, 2.376, 290.388



98, 2.609, 290.403



99, 2.520, 309.092



52, 1.483, 290.394



23, 107.781, 306.287



3, 44.127, 301.758



# Previews

## White Background



### Color Contrast Check

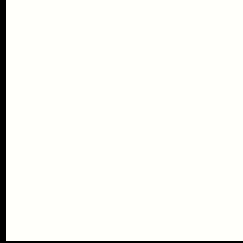
Large Text (above 18pt) WCAG AA × Fail

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 100, 2.525, 109.959 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

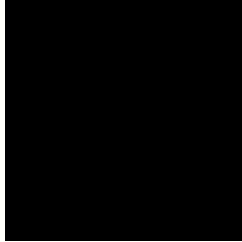
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# CIELCh 100, 2.525, 109.959

## Background



This preview shows how black text looks on a background with the CIELCh color 100, 2.525, 109.959.

# 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

100, 2.525, 109.959

### Protanopia

100, 0.496, 109.985

### Deuteranopia

100, 0.012, 296.813

**Tritanopia**  
100, 0.012, 296.813



# Trichromacy

## Original Color

100, 2.525, 109.959

## Protanomaly

100, 1.003, 110.026

## Deuteranomaly

100, 1.003, 110.026

## Tritanomaly

100, 1.003, 110.026

# Monochromacy

## Original Color

100, 2.525, 109.959

## Achromatopsia

100, 0.012, 296.813

## Achromatomaly

100, 0.496, 109.985

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 100, 2.525, 109.959 is called "color". The color property can be set on classes, ids or directly on the HTML element.

```
.text, #text, p{  
    color:rgb(255, 255, 250)  
}
```

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(255, 255, 250) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 255, 250) }
```

## Border

The CSS property to change the border of an element to CIELCh 100, 2.525, 109.959 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(255, 255, 250) }
```

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

```
.border{ border-color:rgb(255, 255, 250) }
```

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

Here you see how a box with a 4 pixel rgb(255, 255, 250) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 255, 250); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 255, 250);  
box-shadow:4px 4px 4px 4px rgb(255, 255,  
250) }
```

# Background

The CSS property to change the background color of an element to CIELCh 100, 2.525, 109.959 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 255, 250) }
```

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

```
.background{ background-color: rgb(255,  
255, 250) }
```

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