

# Converting Colors

CIELCh(90, 64.186, 163.250)

Have a look what the booklet for  
CIELCh(90, 64.186, 163.250)  
contains.

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# Color

**CIELCh(90, 64.114, 163.324)**

# Conversions

## Conversions Part 1

Format	Color
Hex	3FFFBD
RGB	63, 255, 189
RGB Percent	25%, 100%, 74%
CMY	0.7525, 0.0000, 0.2586
CMYK	0.75, 0.00, 0.26, 0.00
HSL	159°, 100%, 62%
HSV	159°, 75%, 100%
XYZ	47.0326, 76.3034, 60.4314
YIQ	190.0680, -93.2460, -61.2300

# Conversions

## Conversions Part 2

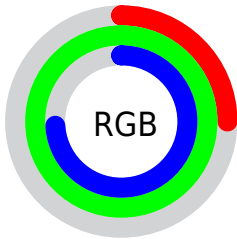
<b>Format</b>	<b>Color</b>
<b>RYB</b>	63, 179, 255
Decimal	4194237
CIELab	90.00, -61.42, 18.40
CIELCh	90, 64.114, 163.324
Yxy	76.3034, 0.2559, 0.4152
Android (android.graphics.Color)	4282384317 (0xFF3FFFBD)
YUV	190.0680, -0.5265, -111.4386
Hunter-Lab	87.3518, -56.7564, 20.1285

# Details

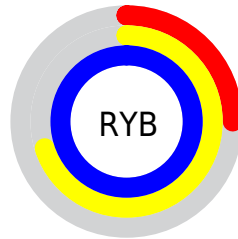
The CIELCh color **90, 64.114, 163.324** is a light color, and the websafe version is hex **33FFCC**. The color can be described as light washed spring green. A complement of this color would be **58, 75.032, 6.515**, and the grayscale version is **77, 0.009, 296.813**.

A 20% lighter version of the original color is **93, 36.209, 188.899**, and **71, 58.976, 160.992** is the 20% darker color. If you saturate the color by 10%, you get **90, 69.221, 161.352**, and if you desaturate by 10%, it is **91, 57.925, 165.124**.

# Distribution



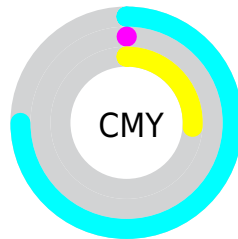
- Red (25%)
- Green (100%)
- Blue (74%)



- Red (25%)
- Yellow (70%)
- Blue (100%)



- Cyan (75%)
- Magenta (0%)
- Yellow (26%)
- Black (0%)




- Cyan (75%)
- Magenta (0%)
- Yellow (26%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 90, 64.114, 163.324 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 90, 64.114, 163.324 by changing the saturation by 10% instead.





 90, 64.114,  
163.324


 90, 64.114,  
163.324


 100, 64.114,  
163.324


 80, 64.114,  
163.324

 70, 64.114,  
163.324

 60, 64.114,  
163.324


 50, 64.114,  
163.324

 40, 64.114,  
163.324

 30, 64.114,  
163.324


 20, 64.114,


163.324


 10, 64.114,  
163.324


 0, 64.114, 163.324


 90, 64.114,  
163.324


 90, 64.114,  
163.324


 90, 69.221,  
161.352


 91, 57.925,  
165.124

 89, 73.421,  
159.155

 92, 50.795,  
166.709

 89, 75.195,  
158.080

 93, 42.792,  
168.124

 94, 34.067,  
169.395

95, 24.788,  
170.546

97, 15.125,  
171.606

99, 5.232, 172.638

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.



90, 64.114, 163.324



58, 75.032, 6.515

# Rectangle

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



90, 64.114, 163.324



90, 64.114, 213.324



90, 64.114, 343.324



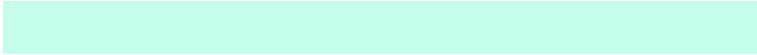
90, 64.114, 33.324

# Sweetspot

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



90, 64.078, 163.343



96, 22.644, 170.791



90, 99.535, 130.983



50, 15.601, 170.395



0, 0.000, 0.000



53, 0.007, 296.813





# Same Dimension

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



90, 64.078, 163.343



89, 71.326, 160.332



83, 40.945, 219.144



52, 5.660, 172.190



69, 60.124, 158.505



23, 26.274, 161.617



# Inverse Universe

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



58, 75.032, 6.515



55, 82.949, 12.904



61, 77.991, 39.110



50, 5.797, 353.855



40, 69.386, 17.228

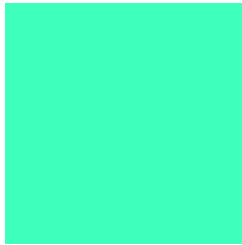


10, 31.322, 9.505



# Previews

## White Background



This preview shows how the CIE LCh color 90, 64.114, 163.324 looks on a white background.

## Color Contrast Check

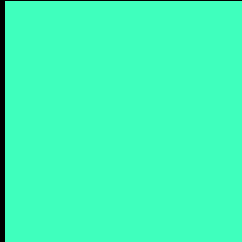
Large Text (above 18pt) WCAG AA × Fail

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 90, 64.114, 163.324 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 90, 64.114, 163.324

## Background



This preview shows how black text looks on a background with the CIELCh color 90, 64.114, 163.324.

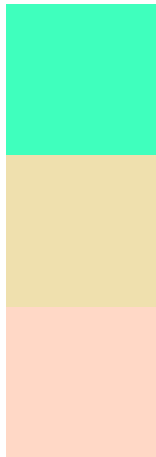


This preview shows how white text looks on a background with the CIELCh color 90, 64.114, 163.324.

# 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

90, 64.114, 163.324

### Protanopia

89, 26.493, 95.216

### Deuteranopia

89, 17.672, 51.939





**Tritanopia**  
90, 28.959, 213.486

# Trichromacy



**Original Color**  
90, 64.114, 163.324



**Protanomaly**  
88, 36.495, 144.520



**Deuteranomaly**  
87, 24.570, 149.929

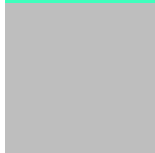


**Tritanomaly**  
89, 39.246, 186.103

# Monochromacy



**Original Color**  
90, 64.114, 163.324



**Achromatopsia**  
77, 0.009, 296.813



**Achromatomaly**  
81, 27.548, 169.784

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 90, 64.114, 163.324 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(63, 255, 189)` looks like.

```
.text, #text, p{  
    color:rgb(63, 255, 189)  
}
```

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(63, 255, 189) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(63, 255, 189) }
```

## Border

The CSS property to change the border of an element to CIELCh 90, 64.114, 163.324 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(63, 255, 189) }
```

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

```
.border{ border-color:rgb(63, 255, 189) }
```

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

Here you see how a box with a 4 pixel `rgb(63, 255, 189)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(63, 255, 189); -webkit-box-  
shadow:4px 4px 4px 4px rgb(63, 255, 189);  
box-shadow:4px 4px 4px 4px rgb(63, 255,  
189) }
```

# Background

The CSS property to change the background color of an element to CIELCh 90, 64.114, 163.324 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(63, 255, 189) }
```

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

```
.background{ background-color: rgb(63, 255,  
189) }
```

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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